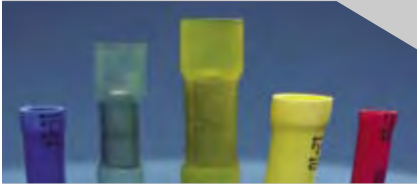


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## Solderless Terminals, Terminal Blocks and Connectors



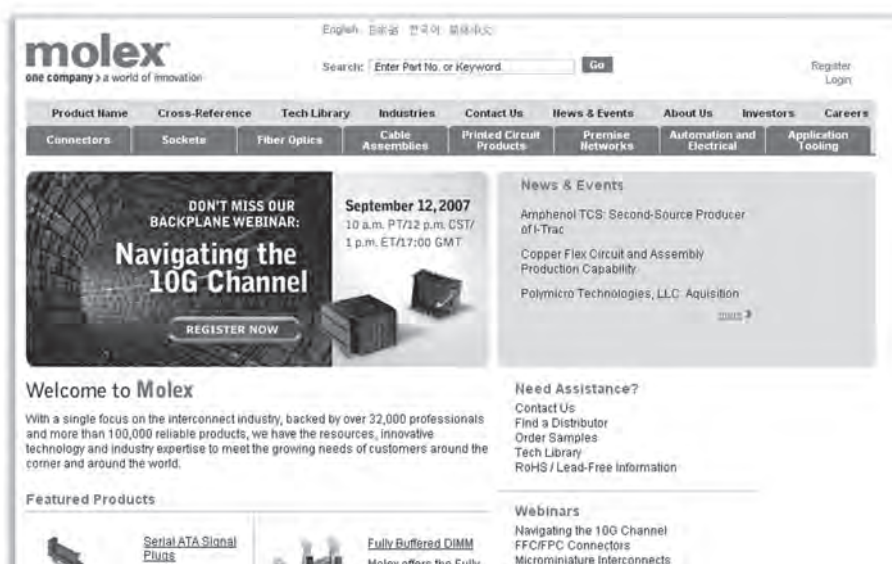
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Molex.com helps you get more done in less time.

The site offers consistent navigation and robust search capabilities that allow you to search by application profile, keyword, feature and part number. The site includes all of the products and information found in this product catalog plus expanded content such as new products, 3D solid models, 2D drawings, product specifications, test results and sample request forms. You can even set up your own personalized molex.com simply by registering.



## How do you want to search?

### By Product Feature

Searching by multiple product features such as pitch, PCB thickness, wire size and current saves time by focusing only on the connectors that have the features you need.

### In Your Language

Search product information in the language of your choice. Molex.com offers search capabilities in Japanese and Korean.

### By Product Type

Find a connector by drilling through stages of the product hierarchy. Information becomes more specific with each level you advance to. At any time, you may access a "feature search" which gives you the ability to search across the product hierarchy that you are currently in.

### By Product Name

This keyword search allows you to link to the commercially used name of a connector family or category, such as Mini-Fit® or IEEE 1394.

### By Part Number

Enter an entire or partial Molex part number to get the search results. Or search by competitor part number to find the Molex equivalent.

### By Industry

You can search by industry such as networking, portables or industrial. For a more detailed search once you select the application profile — notebooks, for example, you can select a specific product category such as "memory" or "microprocessors."

## Why should you register?

By taking advantage of the optional registration, you will be able to get more — and more immediate — information on key applications in your market. Registering allows you to sign up for a monthly e-mail and be among the first to hear about new products. Finally, you can set site-specific bookmarks and self-populate your response screens, making it easier to order samples on-line. Simply find your solution on-line or in this catalog and then order samples on molex.com.

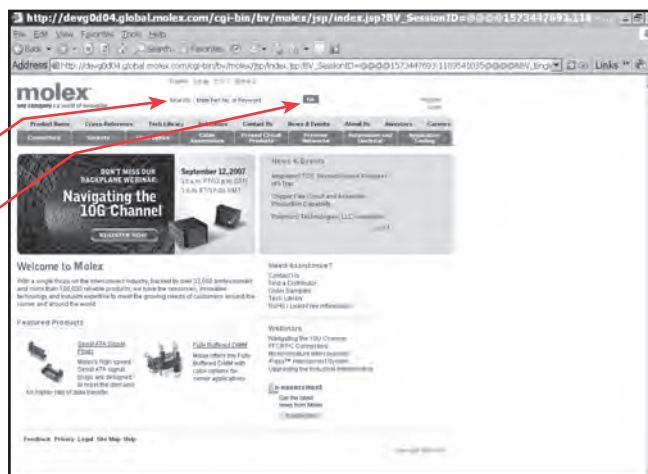
# Tooling How to Find Tooling on [www.molex.com](http://www.molex.com)

**Step 1: Go to [www.molex.com](http://www.molex.com)**

**Step 2: Enter Connector Part Number Into Search**

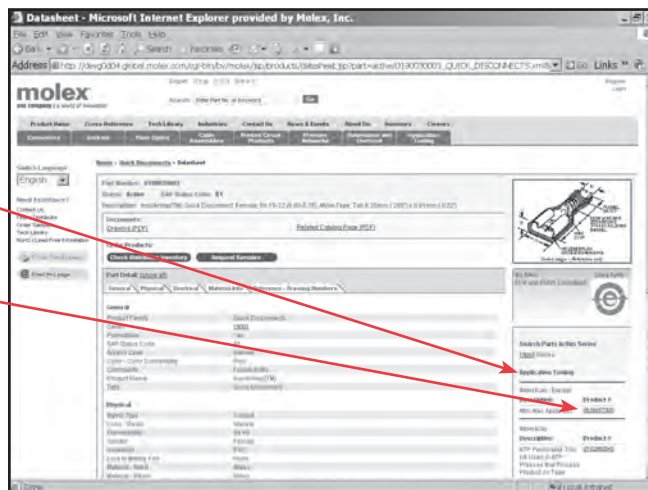
**Enter Part Number Here**

**Hit the "GO" Button**



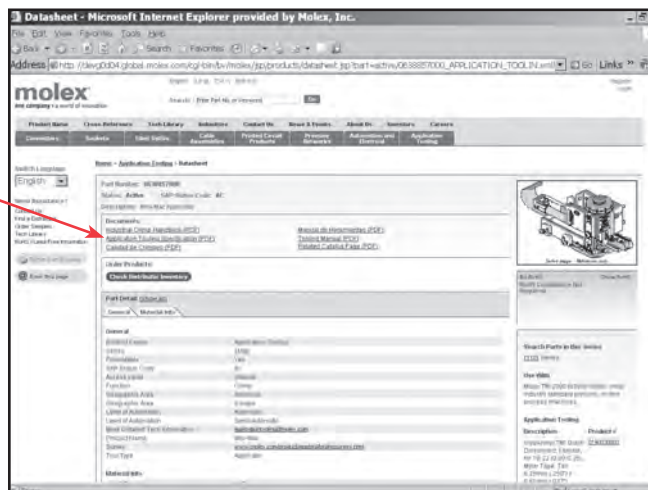
**Step 3: Review Product Page for Tooling Links on Right**

**Review tooling link(s) and double click black link**

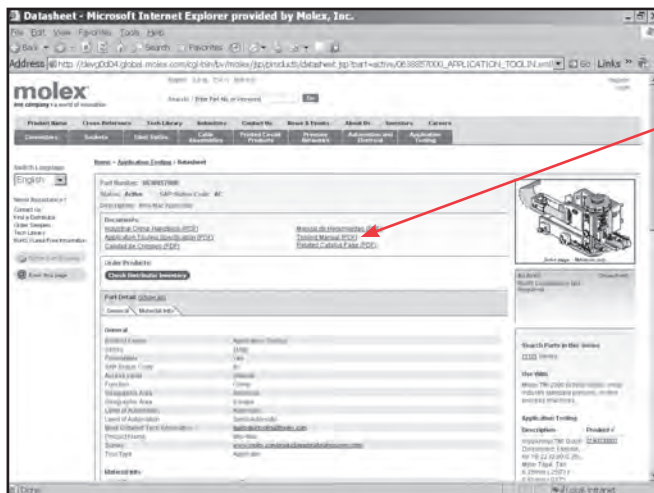


**Step 4: Review Tooling Page Application Tooling Specification**

Application Tooling Specification sheets have all tooling information: terminals used in tool, crimp height, pull force, perishable tool kits, repair kits, how to measure go/no-go, list of products processed, new product number, old product number, wire strip length, part list for tooling components, exploded view of installation and maintenance and warranty information

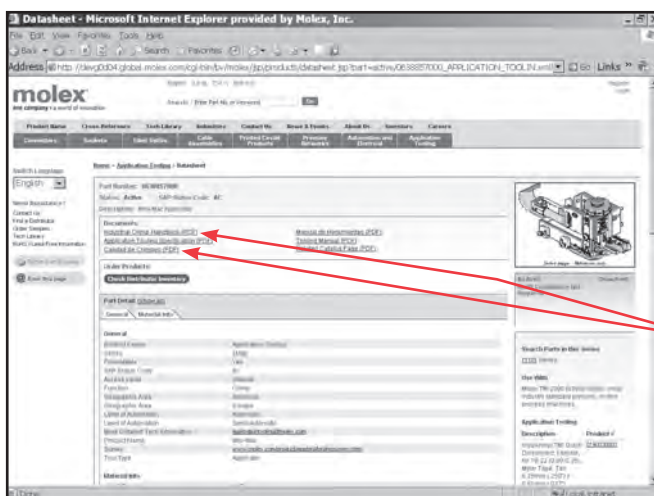


# ▶ Tooling How to Find Tooling on [www.molex.com](http://www.molex.com)



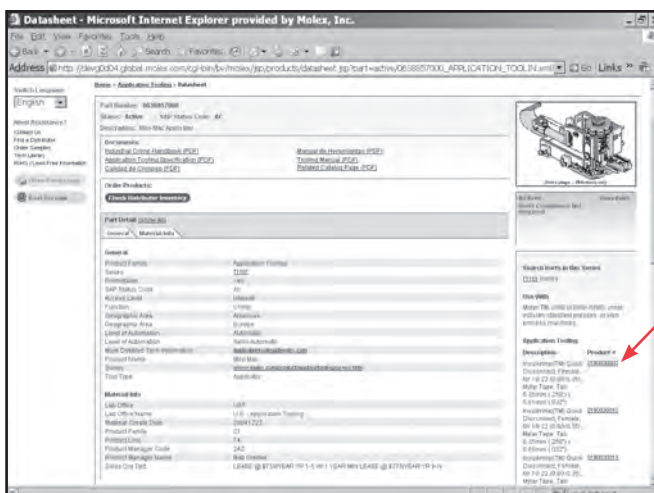
## Step 4: Review Tooling Page Tooling Manual

The Tooling Manual has all of the basic information with regard to the tool. Not all tools have a manual



## Step 5: Review Tooling Page Crimp Quality Handbook

The Crimp Quality Handbook has all of the basic information regarding a proper crimp. Open barrel (CPD) and closed barrel (TBO) have their own quality manuals linked on the web. There are English and Spanish versions of both manuals.



## Other Information on Page

Tooling page will show all of the web-published terminals that the tool will run

# ► Tooling Introduction to Crimp Technology

Developed to replace the need to solder terminations, crimping technology provides a high quality connection between a terminal and a wire at a relatively low applied cost. The methods for applying crimp terminations depend on the application and volume, and range from hand-held devices to fully-automated systems. The application methods include a basic hand tool, a press and die set, a stripper crimper or a fully automatic wire processing system. But no matter what method is used, the setup of each tool is critical for achieving a quality crimp.



Website: Please visit the Molex website to view the most current Application Tooling information. The Molex website is continuously updated with the latest information. ([www.molex.com](http://www.molex.com))

## TERMINOLOGY

### ***Bellmouth (Flare)***

The flare that is formed on the edge of the conductor crimp acts as a funnel for the wire strands. This funnel reduces the possibility that a sharp edge on the conductor crimp will cut or nick the wire strands. As a general guideline, the conductor bellmouth needs to be approximately 1 to 2x the thickness of the terminal material.\*

### ***Conductor Brush***

The conductor brush is made up of the wire strands that extend past the conductor crimp on the contact side of the terminal. This helps ensure that mechanical compression occurs over the full length of the conductor crimp. The conductor brush should not extend into the contact area.

### ***Conductor Crimp***

This is for the metallurgical compression of a terminal around the wire's conductor. This connection creates a common electrical path with low resistance and high current carrying capabilities.

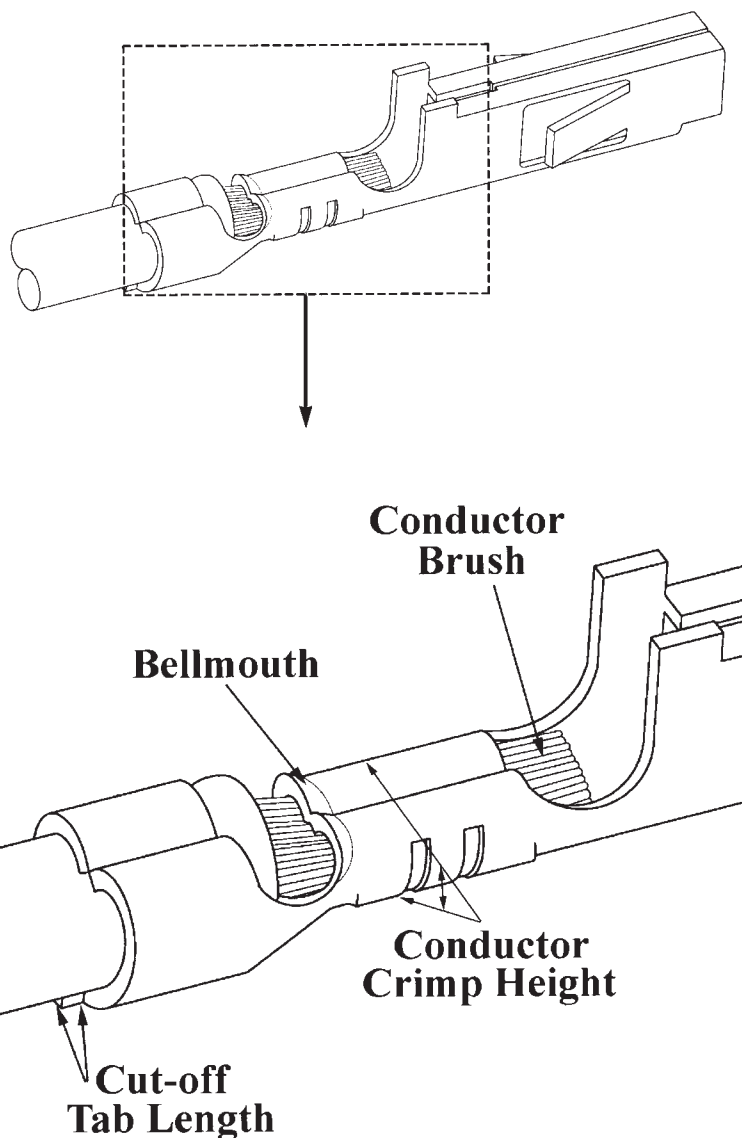
### ***Conductor Crimp Height***

The conductor crimp height is measured from the top surface of the formed crimp to the bottom most radial surface. Do not include the extrusion points in this measurement (See Figure 2). Measuring crimp height is a quick, non-destructive way to help ensure the correct metallurgical compression of a terminal around the wire's conductor and is an excellent attribute for process control. The crimp height specification is typically set as a balance between electrical and mechanical performance over the complete range of wire stranding and coatings, and terminal materials and platings. Although it is possible to optimize a crimp height to individual wire strandings and terminal platings, one crimp height specification is normally created.

### ***Cut-off Tab Length***

This is the material that protrudes outside the insulation crimp after the terminal is separated from the carrier strip. As a general rule, the cut-off tab is approximately 1.0 by 1.5x terminal material thickness.\* A cut-off tab that is too long may expose a terminal outside the housing or it may fail electrical spacing requirements. In most situations, a tool is setup to provide a cut-off tab that is flush to one material thickness.

\*Consult individual terminal specifications



# › Tooling Introduction to Crimp Technology

## TERMINOLOGY (CONTINUED)

### Extrusions (Flash)

These are the small flares that form on the bottom of the conductor crimp resulting from the clearance between the punch and anvil tooling. If the anvil is worn or the terminal is over-crimped, excessive extrusion results. An uneven extrusion may also result if the punch and anvil alignment is not correct, if the feed adjustment is off, or if there is insufficient/excessive terminal drag.

### Insulation Crimp (Strain Relief)

This is the part of the terminal that provides both wire support for insertion into the housing and allows the terminal to withstand shock and vibration. The terminal needs to hold the wire as firmly as possible without cutting through to the conductor strands. The acceptability of an insulation crimp is subjective and depends on the application. A bend test is recommended to determine whether or not the strain relief is acceptable for each particular application.

### Insulation Crimp Height

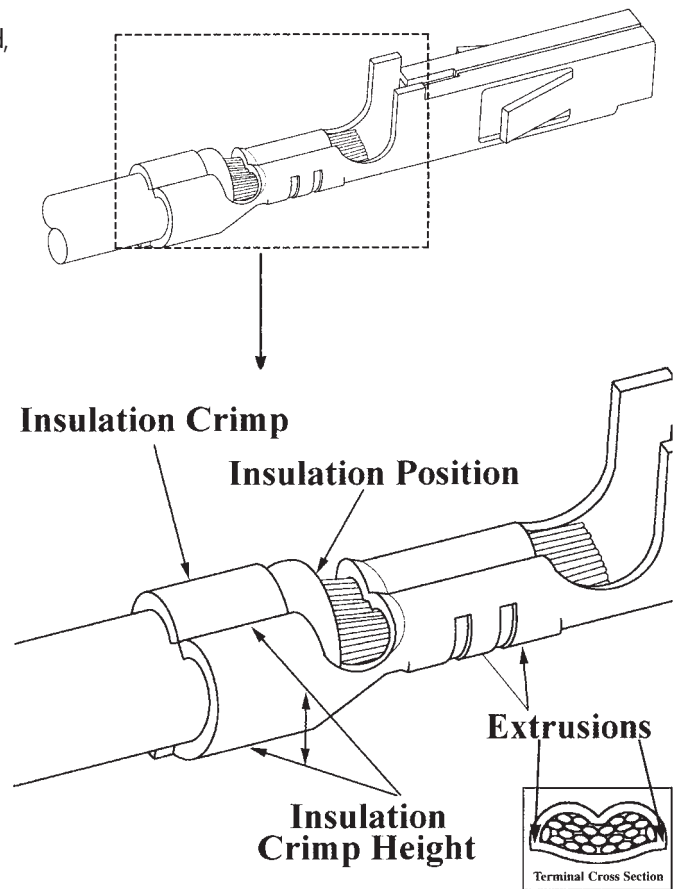
Molex does not specify insulation crimp heights because of the wide variety of insulation thickness, material, and hardness. Most terminals are designed to accommodate multiple wire ranges. Within the terminals range, an insulation diameter may not completely surround the wire or fully surround the diameter of the wire. This condition will still provide an acceptable insulation crimp for most applications.

- A large insulation should firmly grip at least 88% of the wire
- A smaller insulation should firmly grip at least 50% of the wire and firmly hold the top of the wire

To evaluate the insulation section cut the wire flush with the back of the terminal. Once the optimum setting for the application is determined it is important to document the insulation crimp height. Then, as part of the setup procedure the operator can check the crimp height.

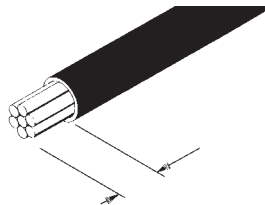
### Insulation Position

This is the location of the insulation in relation to the transition area between the conductor and insulation crimps. Equal amounts of the conductor strands and insulation need to be visible in the transition area. The insulation position ensures that the insulation is crimped along the full length of the insulation crimp, and that no insulation gets crimped under the conductor crimp. The insulation position is set by the wire stop and strip length for bench applications. For automatic wire processing applications the insulation position is set by the in/out press adjustment.



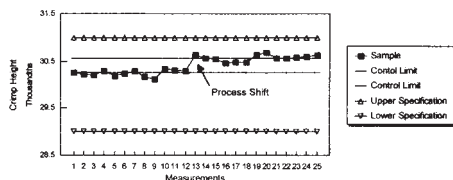
### Strip Length

The strip length is determined by measuring the exposed conductor strands after the insulation is removed. The strip length determines the conductor brush length when the insulation position is centered.



### Process

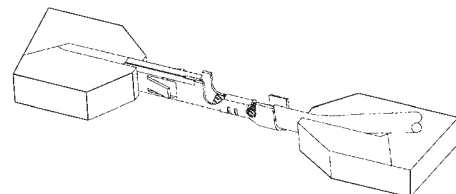
The combination of people, equipment, tooling, materials, methods and procedures needed to produce a crimp termination. Process control is used to track attributes over time to aid in the detection of change to the process. Detecting a process change when it happens helps prevent many thousands of bad crimps.



### Pull Force Testing

Pull Force Testing is a quick, destructive way to evaluate the mechanical properties of a crimp termination. When making a crimp, enough pressure must be applied to breakdown the oxides that build up on the stripped conductor and the tin plating on the inside of the terminal grip. This is necessary to provide a good metal-to-metal contact. If this does not occur, resistance can increase. Over crimping a crimp termination will reduce the circular area of the conductor and increase resistance.

Pull Force Testing is also a good indicator of problems in the process. Cut or nicked strands in the stripping operation, lack of bellmouth or conductor brush, or incorrect crimp height or tooling will reduce pull force. Wire properties and stranding, and terminal design (material thickness and serration design), also can increase or decrease pull force levels.

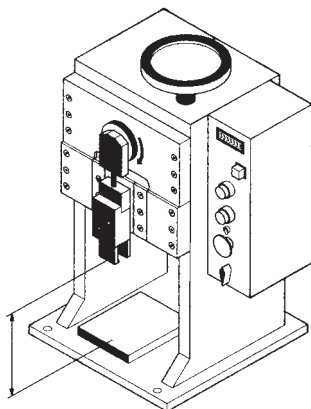


# ► Tooling Introduction to Crimp Technology

## TERMINOLOGY (CONTINUED)

### **Shut Height**

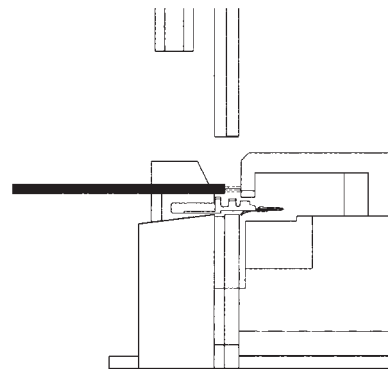
The distance, at bottom dead center on a press, from the tooling mounting base plate to the tooling connection point on the ram of the press.



### **Terminal Position**

The terminal position is set by the alignment of the terminal to the forming punch and anvils, and the carrier strip cut-off tooling. The tool set-up determines conductor bellmouth, cut-off tab length, and terminal extrusions.

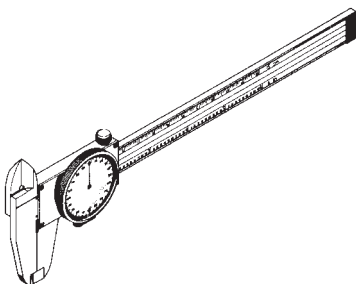
\*Consult individual terminal specifications



## ASSOCIATED MATERIALS

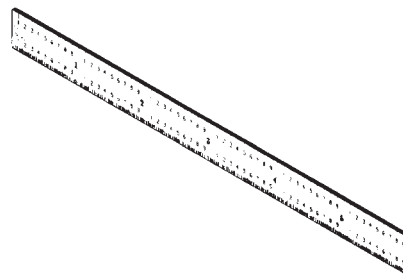
### **Caliper**

A gauge, consisting of two opposing blades, for measuring linear dimensional attributes.



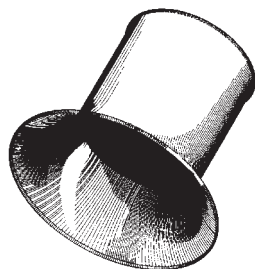
### **Ruler (Pocket Scale)**

This is used to estimate the five piece measurement of bellmouth, cut-off tab, conductor brush, wire position, and strip length. The recommended maximum resolution is .5mm (.020 in).



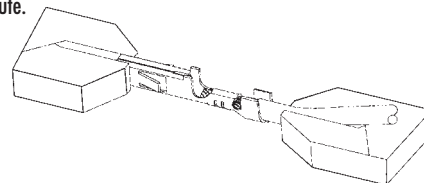
### **Eye Loop**

A magnification tool, normally 10x power or greater, which is used to aid visual evaluation of a crimp termination.



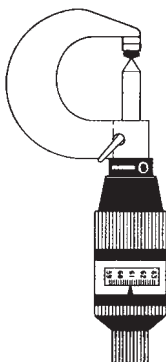
### **Pull Tester (Reference Figure 5)**

A device used to determine the mechanical strength of a crimp termination. Most pull testing is done with a device that clamps the wire, pulls at a set speed, and measures force by means of a load cell. A pull tester also can be as simple as hanging fixed weights on the wire for a minimum of one minute.



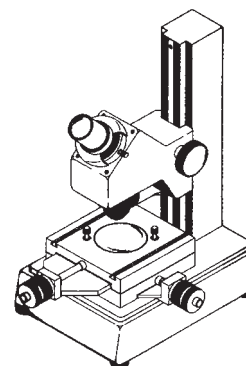
### **Crimp Micrometer**

This is a micrometer specifically designed to measure crimp height. The measurement is taken in the center of the crimp so it is not influenced by the conductor bellmouth. It has a thin blade that supports the top of the crimp while a pointed section determines the bottom most radial surface.



### **Toolmaker's Microscope**

This is used for close visual evaluation and statistical measurement of bellmouth, cut-off tab, conductor brush, wire position, and strip length.



# Glossary

## A

**Absorption:** 1) The amount of moisture a substance will assimilate and retain. 2) The dissipation of energy by radiation passing through a medium.

**Accelerated Aging:** A test in which voltage, temperature and other parameters are increased above normal operating values to obtain observable deterioration in a relatively short period of time.

**Accessories:** Mechanical devices, such as cable clamps, added to connectors, and other such attachable hardware that makes up the total connector configuration.

**Adapter:** An intermediate device that attaches special accessories and provides for special mounting.

**Admittance:** The ease with which an alternating current flows in a circuit. The reciprocal of impedance.

**Alloy:** A combination of two or more elements of which at least one is a metal.

**Ampere:** A standard unit of current. Designated as the amount of current that occurs when one volt of emf is applied across one ohm of resistance. An ampere of current is produced by one coulomb of charge passing a point in one second.

**Attenuation:** Power or signal strength loss in an electrical system. Decrease in power expressed in decibels (dB).

## B

**Back Mounted:** When a connector is mounted from the inside of a panel or box with its mounting flanges inside the equipment.

**Bandwidth:** The amount of data that can be sent through a network connection, measured in bits per second (bps).

**Barrel:** The back end portion of a terminal or contact that is crimped to the conductor or insulation or both.

**Bellmouth:** Flared or a tapered entrance to a connector crimp barrel permitting an essentially smooth stress transition zone between the highly compressed, crimped wire within the barrel and the wire (uncompressed, uncrimped) outside of the barrel, thus preventing micro-cracking of both the barrel and the wire.

**Blind Mating:** A term describing the mating of rack-and-panel connectors via guide or key pins that ensure correct alignment of the connector halves during mating.

**Boot:** 1) A form placed around wire termination of a multiple-contact connector to hold the liquid potting compound before it hardens. 2) A protective housing, usually made from a resilient material, that prevents moisture entry into a connector.

**Braid:** Woven bare metallic or tinned copper wire used as shielding for wires and cables and as ground wire for batteries or heavy industrial equipment. Also a woven fibrous protective outer covering over a conductor or cable.

**Brazing:** A group of welding processes in which the filler is a nonferrous metal or alloy with a melting point greater than 1000 degrees Fahrenheit, but lower than that of the metals or alloys to be joined. Brazing is sometimes referred to as hard soldering.

**Bulkhead Connector:** Type of connector designed for insertion into a panel cutout from the component side.

## C

**Cable:** An assembly of one or more conductors or fiber optic strands within a protective sheath.

**Cable Pierce:** A termination technique in which a metal lance or tine in the terminal passes through the insulation and into the conductive strands.

**Canadian Standards Association (CSA):** A Canadian organization that sets certain standards for connector testing.

**Capacitance:** The ability of a dielectric material between conductors to store an electrical charge when a voltage difference exists between conductors.

**Centerline Spacing:** See Pitch.

**Chamfer:** Angle on the inside edge of the barrel entrance of a terminal or connector housing that permits easier insertion of the cable into the barrel or of a plug into a receptacle.

**Circuit:** A conductive channel through which electrical current flows (in a closed loop termed closed-circuit) or through which light energy flows.

**Component Density:** The quantity of components on a printed circuit board per unit area.

**Compression Terminal:** Terminal crimped by an externally applied force; the conductor is also crimped by such force inside the tube-like terminal body.

**Conductivity:** A material's ability to conduct electric current expressed in terms of the current per unit of applied voltage or 1/impedance.

**Conductor:** An uninsulated wire or combination of wires suitable for carrying electric current.

**Connector:** A coupling device that provides an electrical and mechanical connection or disconnection between two circuits.

**Contact:** The conducting part of a connector that acts with another such part to complete or break a circuit. Also known as terminals.

**Contact Durability:** Endurance measured by the number of insertion and withdrawal cycles that a connector withstands while remaining within its specified electrical and mechanical performance levels.

**Contact Force:** See Normal Force.

**Contact Insertion Force:** The amount of force required to insert a contact into the connector housing.

**Contact Pressure:** The force that mating surfaces exert against each other.

**Contact Rating:** The maximum and minimum voltage, current and power that a contact system is capable of carrying under certain specified conditions.

**Contact Resistance:** Maximum permitted electrical resistance of pin and socket contacts when assembled in a connector under typical service use.

**Contact Retention:** Defines the minimum axial load in either direction that a contact must withstand while remaining firmly seated in its normal position in the connector housing.

**Continuity:** A continuous path for the flow of current in an electrical circuit.

**Coplanarity:** 1) In general, the levelness of the terminals. 2) The maximum distance between the lowest and highest SMT solder tail when the connector rests on a perfectly flat surface.

**Coupling Ring:** A device used on cylindrical connectors to lock a plug and receptacle together. It may or may not make the connector easier to mate/unmate.

**Crosstalk:** A type of interference caused when the signal on one conductor interferes with the signal on an adjacent conductor.

**Current:** A movement of electrons, either positive or negative ions, or holes. The rate of transfer of electricity from one point to another. Current is usually measured in amperes.

**Current Carrying Capacity:** The maximum current an insulated conductor can safely carry without exceeding its insulation and jacket temperature limitations.

**Current Rating:** Maximum current that a device is designed to conduct for a specified time at a specified operating temperature.

## D

**Daisy Chain:** Two or more connectors terminated on the same cable. Each connector shares the same electrical path but provides independent signal distribution.

**Dielectric:** Non-conducting barriers that protect individual conductors from accidental contact with other conductors (a "short circuit") and allow uninterrupted flow or current.

**Dielectric Strength:** The maximum voltage that a dielectric material can withstand, under specified conditions, without rupturing. It is usually expressed in volts/unit thickness.

**Dielectric Withstanding Voltage:** Maximum potential gradient that a dielectric material can withstand without failure.

**Discontinuity:** A broken connection, or the loss of a specific connection characteristic.

**Discrete Wire:** A single cable or wire. Contrast it to ribbon cable, which consists of multiple cables or wires.

**Disengagement Force:** See Withdrawal Force.

**Dual Beam:** A type of stamped-and-formed contact where the female contact holds the male contact between two beams.

**Durability:** See Contact Durability.

## E

**Electromagnetic:** Pertaining to the combined electric and magnetic fields associated with movements of electrons through conductors.

**Electromagnetic Interference (EMI):** Electromagnetic waves that interrupt signals in electronic equipment.

**Engagement and Separation Force:** The amount of force needed to engage (mate) and/or separate (unmate) contact elements in mating connectors. Force levels vary with circuit size. Total connector engagement force is approximated by multiplying the number of circuits in the housing by the per circuit engagement (mating) force.

**Epoxy:** A family of thermosetting resins used in the packaging of semiconductor devices and fiber optics. Epoxies form a chemical bond to many metal and glass surfaces.

## F

**Feed Through:** 1) A conductor that connects patterns on opposite sides of a printed circuit board. Also called interfacial connection. 2) A connector or terminal block, usually having double-ended terminals that permit simple distribution and bussing of electrical circuits. Also used to describe a bushing in a wall or bulkhead separating compartments at different pressure levels with terminations on both sides.

**Ferrule:** 1) A short tube used to make solderless connections to shielded or coaxial cable. Also molded into the plastic inserts of multiple contact connectors to provide strong, wear-resistant shoulders on which contact retaining springs can bear. 2) A mechanical fixture used to confine and align the stripped end of a fiber in a fiber optic connector.

**First Mate/Last Break (FMLB):** A connector design in which power contacts engage before signal contacts when two connector halves are mated. FMLB prevents damage to electrical circuitry in the system by having the ground pin mate first.

**Flammability:** The measure of the material's ability to support combustion.

**Flange:** A projection extending from or around the periphery of a connector and provided with holes to permit mounting the connector to a panel or to another mating connector half.

**Flex Life:** The ability of a conductor or cable to withstand repeated bending.

**Frequency:** The number of times a periodic action occurs in a unit of time. The number of cycles that an electric current completes in one second.

## G

**Gang Disconnect:** A connector that permits the rapid and simultaneous connection and disconnection of two or more electrical circuits.

**Gas Tightness:** The characteristic of a contact which is impervious to ingress by corrosive gases.

**Gauge:** A term used to denote the physical size of a wire.

**Gigabit Ethernet:** A Local Area Network (LAN) protocol that supports data transfer rates of 1 Gb/s.

**Grid:** An orthogonal network of two sets of parallel, equidistant lines used for locating points on a printed board. Connections should be located on the cross-points of the grid lines.

**Ground:** A common or reference point in an electrical circuit that can be earth ground and/or a chassis. It is with respect to this common point that all voltages are measured.

## H

**Header:** The male connector assembly of a two-piece post-and-box connector attached to a PCB. Headers are available in two styles: shrouded and unshrouded.

**Hermaphroditic Connector:** An interconnecting device in which both mating parts are identical at their mating surfaces. Also a connector housing that accepts both male and female terminals.

**Hi Pot:** A dielectric strength test that tests the insulation between two circuits.

**Hot Pluggable:** Adding electronic components to a system (plugging) or removing electronic components from a system (unplugging) while the system is powered up (hot). Also known as live insertion or live mating.

**Hygroscopic:** Capable of absorbing moisture from the air.

## I

**Impedance:** The total opposition that a circuit offers to the flow of alternating current, or any other varying current, at a particular frequency.

**Inductance:** The property of a circuit or circuit element that opposes a change in current flow, causing current changes to lag behind voltage changes.

**Infrared Reflow Solder:** A soldering process in which heat from infrared radiation is used to melt solder paste between connector leads and PCB pads to make a solder joint.

**Ingress Protection (IP):** A rating system that measures a connector's sealing capabilities against dust and moisture.

**Insertion Force:** The force required to insert a connector housing into its final position in a printed circuit board or panel cutout.

**Insertion Loss:** 1) The loss in load power resulting from the insertion of a component, connector or device. 2) A measure of the attenuation of a device by determining the output of a system before and after the device is inserted into the system.

**Insulation Displacement Technology (IDT):** A wire termination technique in which an insulated wire is pressed into a terminal slot smaller than the conductor diameter, displacing the insulation, and forming an electrical contact between the terminal and the conductor.

**Insulation Resistance:** The electrical resistance of the insulating material between any pair of contacts, conductors or grounding devices in various combinations.

**Interference:** Disturbances of an electrical or electromagnetic nature that introduce undesirable responses into electronic equipment.

## J

**Jacket:** Outermost layer of insulating material of a cable or wire.

**Jackscrew:** A screw attached to one half of a two-piece, multiple-contact connector and used to draw and secure both halves together and to separate them.

**Jumper Cable:** A short flat cable interconnecting two printed circuit boards or devices.

## K

**Keying:** A mechanical arrangement of inserts and/or shell configurations (referred to as clocking in some instances) that prohibits the mating of mismatched plugs and receptacles. This allows connectors of the same size to be lined up, side-by-side, with no danger of making the wrong connection.

## L

**Leakage:** The undesirable passage of current over the surface of, or through, an insulator.

**Life Cycle:** A test to determine the length of time before failure in a controlled, usually accelerated, environment.

**Liquid Crystal Polymer (LCP):** A type of plastic material of high crystallinity with excellent high-temperature applications, very high strength and excellent chemical resistance.

**Loop Resistance:** The total resistance of two conductors measured round trip from one end.

## M

**Mass Termination:** A termination method, typically used with discrete wire or ribbon cable, in which two or more insulated conductors are simultaneously terminated to the same connector housing. Termination method is typically insulation displacement.

**Mating/Unmating Force:** The amount of force, measured in grams or pounds, required to join or separate a mated plug and receptacle.

**Migration:** The movement of atoms or molecules of a metal from one location to another that changes the properties of the metal.

**MIL SPEC:** Specific manufacturing, testing, and packaging requirements set by the U.S. military as indicated on an item by a military identification or MIL SPEC number.

**Mismatch, Connector Impedance:** Terminal or connector with a different impedance than the circuit or cable it is designed for.

**Motherboard:** A printed circuit board that is generally the main PCB in a system.

## N

**Non-compliant Press-fit Technology:** A square pin pushed into a slightly undersized plated through hole on a PCB.

**Normal Force:** The force perpendicular to the contact interface. Does not include frictional forces, created from insertion to, or withdrawal from the connector housing.

## O

**Operating Temperature:** The maximum and minimum ranges of temperatures at which a device is designed to operate at its rated current and voltage.

## P

**Panel Cutout:** The hole, usually round or rectangular, cut in a panel for mounting a connector. May include holes for mounting screws or bolts.

**Panel Mount:** Method of fixing a connector half to a cut out in a board, panel or frame.

**Parallel Bus:** A bus that transfers eight or more bits of data simultaneously through several parallel lines.

**Passive Device:** A static device that requires no power for its intended functions.

**Pitch:** The nominal distance from center-to-center of adjacent conductors.

**Plating:** The overlaying of a thin coating of metal on metallic components to improve conductivity, provide for easy soldering, or prevent rusting or corrosion.

**Plug:** Usually the half of a two-piece multiple contact connector that contains the male contacts or the cable-side connector in an Input/Output configuration.

**Polarization:** Mechanical guide arrangement in a connector housing, shell or insert that ensures that connector halves are correctly aligned before they can be fully mated.

**Polarizing Pin (Key):** A pin or keying device on one half of a two-piece connector that mates with an appropriate hole on the other half during connector assembly to assure that only related connector halves can be assembled.

**Positive Lock:** A type of latch or locking mechanism that holds a die set in an installation tool, or connector housing, so that the parts cannot be accidentally unlocked or unmated.

**Printed Circuit Board (PCB):** An insulating base material, usually of rosin polymer, onto which interconnecting conductive strips have been printed, usually via an etching process.

**Profile Height:** The height of a connector, when mated to its header, that is above the PCB.

**Protocol:** In data transmission, a set of rules that specifies the timing, format, sequencing and error control of transmitted signals.

**Pull Out Force:** Force required to separate a cable from a connector by pulling them apart.

## Q

**Quick Disconnect:** A type of terminal that permits rapid connection and disconnection to a flat blade terminal or terminal block.

## R

**Rated Temperature:** The maximum temperature an electric component can operate at for extended periods without loss of its basic properties.

**Rated Voltage:** The maximum voltage an electric component can operate at for extended periods without undue degradation or causing a safety hazard.

**Real Estate:** Surface space on a PCB.

**Receptacle:** Usually the half of a two-piece multiple contact connector that contains the female contacts.

**Resistance:** Property of a conductor that determines the current produced by a given difference of potential.

**RoHS:** A European-driven standard regarding the absence of selective hazardous materials within systems and their respective components.

## S

**Selective Plating:** The process of plating gold only in the mating areas (surfaces) of a contact.

**Separation Force:** See Engagement Force.

**Shield:** Device surrounding the portion of a connector that is used for attaching wires or cables to shield against radio frequency and electromagnetic interference, and/or protect connector wires or cable from mechanical damage.

**Shield Effectiveness:** The relative ability of a shield to screen out undesirable signals.

**Shielded Cable:** A cable in which a metallic layer is placed around a conductor or group of conductors to prevent electrostatic or electromagnetic interference between the enclosed wires and external fields. The shield may be the metallic sheath of the cable or a metallic layer inside of a non-metallic sheath.

**Short Circuit:** A break or interruption of current flow in an electrical circuit due to current shunted to a conjoining circuit.

**Shunt:** A device used to divert part of an electric current.

**Single Beam:** A stamped-and-formed contact where the female contact holds the male contact between itself and the housing wall.

**Solder:** An alloy that melts at relatively low temperature, and which is used to join or seal metals with higher melting points. Commonly used for connector terminations.

**Solder Wicking:** A capillary action that tends to draw solder or flux up into a connector from the PCB during the soldering process and can cause a short circuit.

**Spice Modeling:** Circuit response modeling and simulation per a given electrical excitation in order to judge the electrical and design capabilities of a system.

**Stackable:** Refers to placing symmetrical housings (assemblies) side-by-side or end-to-end and where the distance from the last contact in one assembly to the first contact in the next assembly is equal to the distance between any two contacts in the assembly itself.

**Standoff:** Tiny spacers built into housings to raise the housing from the surface of a printed circuit board.

**Strain Relief:** Technique involving methods of termination or installation, which reduces the transmission of mechanical stresses to the conductor termination.

**Strand:** One of the wires, or groups of wires, of any stranded conductor.

**Strip Length:** The length of insulation that must be removed from a cable prior to crimping.

**Surface Mount Compatible (SMC):** Through hole product made of high temperature material, thereby suitable for the IR or convection reflow soldering process.

**Surface Mount Technology (SMT):** The electrical connection of components to the surface of a conductive pattern without using component holes.

## T

**Tensile Strength:** Greatest longitudinal stress that a substance can bear without pulling apart.

**Terminal:** A device that terminates a conductor to a post, stud, chassis or another conductor, or the like, to establish an electrical connection.

**Termination Resistance:** The opposition to current flow due to the mating interface of a connector and a header or to another connector.

**Thermoplastic:** A type of plastic that can be re-melted a number of times without any important change in properties.

**Thermosetting Plastic:** A type of plastic in which an irreversible chemical reaction takes place while it is being molded under heat and pressure.

**Through-Hole Mounting:** Electrical connection of components through drilled holes rather than attachment directly to the insulating material.

**Tolerance:** The upper and lower limits of variation from a component's nominal value.

**Twisted Pair:** A cable composed of two small gauge insulated conductors, twisted together without a common covering. The two conductors of a twisted pair are usually well insulated.

## U

**Underwriters Laboratories (UL):** A U.S. organization that sets certain standards for connector testing.

**Unmating Force:** The force required to disconnect a male and female connector.

## V

**Void:** A hole in a header that does not have a pin/terminal for polarization purposes.

## W

**Wiping:** The translational action that occurs when contacts are mated with a sliding action. Wiping has the effect of removing small amounts of contamination from the contact surfaces, thus establishing better conductivity.

**Wire Pull Out:** The force required to separate a wire from a contact after termination.

**Withdrawal Force:** The force required to disconnect the two halves of a connector.

## Z

**ZIF:** Zero Insertion Force. Usually describes a socket which permits the insertion of the component without the socket exerting any force on the leads of the component.

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### Solderless Terminals

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# Solderless Terminals, Splices and Quick Disconnects

## Barrel Styles

### KRIMPTITE®



This is the basic Molex barrel style. It is noninsulated and features a quality, 1-piece design. It is also the most economical style and has the greatest variety of uses where special features are not required. The Krimptite is available in wire range 10 to 26 AWG (0.10 to 6.60mm<sup>2</sup>).

### INSULKRIMP®



These terminals and splices feature a rigid insulation sleeve of polyvinyl chloride (PVC) affixed permanently to the Krimptite barrel (in 10 to 22 AWG) or the brazed-seam Versakrimp barrel (in 4/0 to 22 AWG). It attaches to the wire with 1 quick crimp and the insulation sleeve protects against vibration damage by preventing wire flex at the crimp point. The funnel entrance into the electrical barrel eliminates wire strand "hang up," increases crimping rates and enhances wire termination reliability. Wire range 4/0 to 22 AWG (0.10 to 117.00mm<sup>2</sup>).

### VERSAKRIMP™



When the butted-seam Krimptite barrel is bonded with a special brazing alloy, it becomes a Versakrimp barrel. These brazed-seam barrel terminals and splices will not open under conditions of stress or wire pull. As versatile as it is tough, it can be crimped under most adverse conditions by many types of tooling. The Versakrimp is ideal for hard-to-crimp solid and stranded wires. It is available in wire range 4/0 to 22 AWG.

### NYLAKRIMP®



This terminal was designed specifically for larger wire applications. The color-coded barrel is formed by affixing a permanent, rigid, color-coded nylon insulating sleeve to the barrel. The insulation has a funnel entrance into the electrical barrel that eliminates wire strand "fold back," increases crimping rates and enhances wire termination.

Nylakrimp terminals withstand continuous operating temperatures of -55 to 105°C (-67 to 221°F). Available in wire range 4/0 to 8 AWG.



### AVIKRIMP®

This color-coded barrel style offers you the ultimate in high-performance terminal design and rugged construction. The Tin-plated Brass sleeve strengthens the barrel and secures the wire to protect against stress and high vibration. The color-coded nylon insulating sleeve extends beyond the metal support sleeve. A funnel ferrule wire entrance into the electrical barrel prevents wire strand "fold back" for increased crimping rates and added wire termination reliability in the standard barrel length. Wire range 10 to 26 AWG (0.10 to 6.60mm<sup>2</sup>).



### PERMA-SEAL

This is the ultimate in terminations and splicing. The insulation is a nylon shrink tubing with an inner wall of hot-melt adhesive. After the wire is crimped, heat is applied and the insulation shrinks and melts to give the crimp area a complete environmental seal. Wire range 10 to 22 AWG (0.10 to 6.60mm<sup>2</sup>).



### EYELET

Our color-coded eyelet terminals can be used in place of standard compression terminals because they are deep drawn from CDA-110 electrolytic tough pitch Copper stock and then Tin plated for corrosion resistance. Combined with seamless barrels and pad, these parts are extra tough and reliable.



### OPEN BARREL STRIP

Quick Disconnects, Rings and Star Rings are available on metal "T" carried strip. These parts feature open barrels with an insulation support and are made of Brass.

## 94V-0 TERMINALS

These terminals are used extensively in the telecommunications industry. 94V-0 parts consist of a PVC-insulated Avikrimp part. The PVC insulation has a 94V-0 Flammability Rating and an Oxygen Index Rating above 28%. These terminals exceed all UL and Bellcore requirements. Contact the factory for more information.

## Tongue Styles

### RING



The basic tongue type. It is the safest and most reliable because it cannot be disconnected unless the screw is completely removed.

### SPADE



The open tongue end is for rapid insertion on the mounting screw. The spade is usually used on free standing studs.

### BLOCK SPADE



This tongue style is similar to the spade. However, note the longer and flatter sides. Block Spades are designed for use in terminal blocks.

### SNAP SPADE



The spring-like tongue snaps around the screw like a Quick Disconnect and the terminal is locked into place until the mounting screw can be tightened down.

### FLANGED SPADE



The turned up edges give this spade more safety and reliability. The flanges also give both a location and locking action that aid greatly in installation.

### HOOK



This tongue type combines the security advantage of the ring with the easy-handling characteristics of the spade.

### STAR RING



This tongue style is a ring with serrated edges that bite into the applied surface insuring a good connection or ground.

# Solderless Terminals, Splices and Quick Disconnects

A

Solderless Terminals



## METAL STRIP

Quick Disconnects are available on a continuous metal carrier. They are made in the traditional "T" carrier.



## MYLAR TAPE CARRIER

Most Molex terminals in the 2 to 26 AWG wire range can be tape-mounted.



## CONTINUOUS MOLDED STRIP

The fully insulated line of Quick Disconnects is also available in easy-to-identify, color-coded, continuous molded nylon strips.

Special reel sizes available upon request. For high-speed, volume production crimping, many companies in a wide range of industries have come to rely on Molex Metal Strip, Tape-Mounted, and Continuous Molded Strip terminals and automatic crimping presses to give them the highest quality end-product at the lowest applied cost.

## Splices

Molex offers standard and special splices for nearly every type of wiring need.



### BUTT SPLICE

Stripped wires are inserted from each end and "butt" in the center. Then a crimp at each end secures the connection.



### NYLON CLOSED-END CONNECTOR

Used in a wide variety of situations to "pigtail" or tie together 2 or more wires.



### MULTI-LOCK

These color-coded connectors make quick, reliable and pre-insulated splices without stripping, twisting, soldering or the need for special tools.



### STEP DOWN BUTT SPLICE

The Step Down Butt Splice is the perfect solution when 2 wires need to be inserted in one end of a splice and a single wire in the other end.



### FUNNEL ENTRY BUTT SPLICE

In the past, the crimping of machine terminated butt splices has been difficult and nearly impossible if attempted on a piece of robotic equipment. Now, with our new Funnel Entry Butt Splice, the end that will be crimped by the crimping press is funneled to allow quick and easy wire insertion.



### PARALLEL SPLICE

Stripped wires lie side-by-side in the splice and are secured by a single crimp in the middle.



### AVIKRIMP® BUTT SPLICE

With the extra metal sleeve and nylon insulation, these splices should be used when heavy vibration is anticipated and a strong strain relief is needed.



### WIRE TAP

The quick and easy way to splice into a wire.



### WINDOW BUTT SPLICE

QPL'd to Mil-T-7928/5

# Perma-Seal™ All-Weather Heat-Sealable Terminals and Splices

Perma-Seal terminals and splices provide a rugged, environmentally sealed connection for wire sizes 8 to 22 AWG that will insulate, seal and protect joints from physical abuse and abrasion, water, salt and other corrosive compounds.



## Waterproof Adhesive Seal

Perma-Seal terminals and splices give you long-lasting, moisture-proof connections that withstand water, salt, condensation, corrosion and heat, which cause serious problems for conventional, unsealed splices. The inner wall of the heat-shrinkable Perma-Seal sleeve is lined with a special hot-melt adhesive that is inert at room temperature, permitting wires to be inserted easily into the splices and terminals. As the sleeve is heated, the adhesive melts and flows under pressure from the tubing. This action creates a voidless seal that repels moisture incursion even during pressure cycling, and stands up to some of the most rigorous

tests that can be applied to high-performance splices, including full immersion for 24 hours at room temperature in gasoline, battery acid, diesel fuel, motor oil, antifreeze, brake fluid, trichloroethylene and 5% soft water.

## Tough and Durable

The tough sleeve of Perma-Seal splices and terminals resists abrasion and cutting. This protection helps to maintain the insulation and sealing properties even in the most hostile environments, not to mention an unbeatable strain relief.

## Physical

Material: Terminal—Copper Alloy

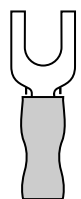
Insulation—NiAc™

Plating: Tin

## Terminals



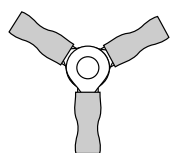
Ring



Spade



Hook



3-Way

### Ring

| Wire Range<br>AWG (mm²) | Stud Size | Order No.   |            | Lead-free |
|-------------------------|-----------|-------------|------------|-----------|
|                         |           | Loose Piece | Mylar Tape |           |
| 18-22 (0.96-0.38)       | 6         | 19164-0085  |            | Yes       |
|                         | 8         | 19164-0086  | 19164-0419 |           |
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|                         | 3/8       | 19164-0005  | 19164-0845 |           |
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|                         | 8         | 19164-0033  | 19164-0311 |           |
|                         | 10        | 19164-0034  | 19164-0312 |           |
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|                         | 5/16      | 19164-0027  | 19164-0309 |           |
|                         | 3/8       | 19164-0020  | 19164-0307 |           |
|                         | 1/2       | 19164-0061  |            |           |
| 10-12 (5.01-3.09)       | 6         | 19164-0062  |            |           |
|                         | 8         | 19164-0065  | 19164-0316 |           |
|                         | 10        | 19164-0066  | 19164-0317 |           |
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|                         | 3/8       | 19164-0068  |            |           |
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|                         | 1/4       | 19164-0081  | 19164-0603 |           |
|                         | 5/16      | 19164-0083  | 19164-0605 |           |
|                         | 3/8       | 19164-0082  | 19164-0604 |           |
|                         | 1/2       | 19164-0457  |            |           |

### Spade

| Wire Range<br>AWG (mm²) | Stud Size | Order No.  | Lead-free |
|-------------------------|-----------|------------|-----------|
| 18-22 (0.96-0.38)       | 6         | 19164-0006 | Yes       |
|                         | 8         | 19164-0007 |           |
|                         | 10        | 19164-0008 |           |
| 14-16 (1.94-1.23)       | 6         | 19164-0028 |           |
|                         | 8         | 19164-0029 |           |
|                         | 10        | 19164-0030 |           |
| 10-12 (5.01-3.09)       | 6         | 19164-0069 |           |
|                         | 8         | 19164-0070 |           |
|                         | 10        | 19164-0072 |           |
|                         | 1/4       | 19164-0073 |           |

### Hook

| Wire Range<br>AWG (mm²) | Stud Size | Order No.s | Lead-free |
|-------------------------|-----------|------------|-----------|
| 14-16 (1.94-1.23)       | 10        | 19164-0021 | Yes       |

### 3-Way

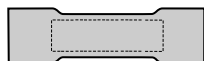
| Wire Range<br>AWG (mm²) | Order No.  | Lead-free |
|-------------------------|------------|-----------|
| 18-22 (0.96-0.38)       | 19164-0011 | Yes       |
| 14-16 (1.94-1.23)       | 19164-0042 |           |
| 10-12 (5.01-3.09)       | 19164-0074 |           |

# Perma-Seal™ All-Weather Heat-Sealable Splices



A

Solderless Terminals



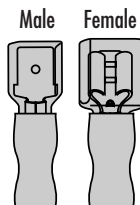
Butt Splice



Step Down Butt



Quick Disconnects



Quick Disconnect Couplers



Snap Plug



Snap Plug Receptacle

## Physical

Material: Splice—Copper  
Insulation—NiAc™  
Plating: Tin

## Butt Splices

| Wire Range<br>AWG (mm²) | Order No.   |            | Lead-free |
|-------------------------|-------------|------------|-----------|
|                         | Loose Piece | Mylar Tape |           |
| 18-22 (0.96-0.38)       | 19164-0013  | 19164-0014 | Yes       |
| 14-16 (1.94-1.23)       | 19164-0044  | 19164-0045 |           |
| 10-12 (5.01-3.09)       | 19164-0056  | 19164-0057 |           |
| 8 (7.96)                | 19164-0079  |            |           |

## Step Down Butt

| Wire Range<br>AWG (mm²)                | Order No.  | Lead-free |
|----------------------------------------|------------|-----------|
| 14-16 (1.94-1.23) to 18-22 (0.96-0.38) | 19164-0043 | Yes       |
| 10-12 (5.01-3.09) to 14-16 (1.94-1.23) | 19164-0077 |           |

## Physical

Material: Terminal—Brass  
Insulation—NiAc™  
Plating: Tin

## Quick Disconnects

| Wire Range<br>AWG (mm²) | Fits Tab Size (in.)         | Order No.  | Lead-free |
|-------------------------|-----------------------------|------------|-----------|
| 18-22 (0.96-0.38)       | 6.35 by 0.81 (.250 by .032) | 19164-0012 | Yes       |
| 14-16 (1.94-1.23)       | 6.35 by 0.81 (.250 by .032) | 19164-0047 |           |
| 10-12 (5.01-3.09)       | 6.35 by 0.81 (.250 by .032) | 19164-0059 |           |

## Physical

Terminal Material: Male—Copper  
Female—Brass  
Insulation—NiAc™  
Plating: Tin

## Quick Disconnect Couplers

| Wire Range<br>AWG (mm <sup>2</sup> ) | Tab Size                    | Order No.   |            |            |            | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|------------|------------|-----------|
|                                      |                             | Loose Piece |            | Mylar Tape |            |           |
|                                      |                             | Male        | Female     | Male       | Female     |           |
| 18-22 (0.96-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19164-0015  | 19164-0017 | 19164-0016 | 19164-0018 | Yes       |
| 14-16 (1.94-1.23)                    | 6.35 by 0.81 (.250 by .032) | 19164-0048  | 19164-0050 | 19164-0049 | 19164-0051 |           |
| 10-12 (5.01-3.09)                    | 6.35 by 0.81 (.250 by .032) | 19164-0075  | 19164-0076 |            | 19164-0305 |           |

## Physical

Material: Terminal—Copper Alloy  
Insulation—NiAc™  
Plating: Tin

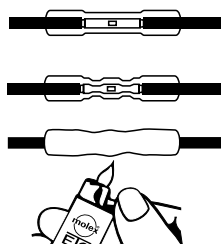
## Snap Plug

| Wire Range<br>AWG (mm²) | Diameter    | Order No.   |            | Lead-free |
|-------------------------|-------------|-------------|------------|-----------|
|                         |             | Loose Piece | Mylar Tape |           |
| 18-22 (0.96-0.38)       | 3.96 (.156) | 19164-0010  | 19164-0807 | Yes       |
| 14-16 (1.94-1.23)       | 3.96 (.156) | 19164-0040  | 19164-0315 |           |

## Snap Plug Receptacle

| Wire Range<br>AWG (mm²) | Diameter    | Order No.   |            | Lead-free |
|-------------------------|-------------|-------------|------------|-----------|
|                         |             | Loose Piece | Mylar Tape |           |
| 18-22 (0.96-0.38)       | 3.96 (.156) | 19164-0052  |            | Yes       |
|                         | 4.57 (.180) | 19164-0053  |            |           |
| 14-16 (1.94-1.23)       | 3.96 (.156) | 19164-0054  | 19164-0414 |           |
|                         | 4.57 (.180) | 19164-0055  |            |           |

## Simple Installation



Select the correct splice size for the wire gauge. Strip the wires 7.60mm (.300") from the end and insert into the crimp barrel.

Making sure the wire end is properly seated, make the crimp connection using a tool designed for insulated splices.

Apply heat directly to the splice, working from the center out to the edges, using a hot air gun or other heat source, until the tubing shrinks and the adhesive flows. Allow to cool before inspecting splice and checking the integrity.

Perma-Seal only needs a temperature of 90°C to shrink.

# Temp-Terms Ring Tongue Terminals

Reliable terminations for high-temperature applications. Extreme thermal environments for electrical and electronic circuitry demand Molex TEMP-TERMS. Their consistent, high quality and rugged reliability assure your product's proper performance even at temperatures up to 649°C (1200°F). TEMP-TERMS are designed and value-engineered for three

different high ambient temperature ranges: 343°, 483° and 649°C (650°, 900° and 1200°F, respectively). The terminals and splices in each range are fabricated from different materials to obtain maximum thermal performance at optimum initial and installed costs.

## 343°C Temp-Terms (650°F)



### VersaKrimp™

Operating conditions in this maximum temperature range calls for Molex 343°C (650°F) TEMP-TERMS terminals and splices. Both terminals and splices are constructed of nickel-plated copper and are available in the VersaKrimp barrel style.

#### Physical

Material: Copper  
Plating: Nickel

## 483°C Temp-Terms (900°F)



### Krimptite™

Molex also offers a line of terminals designed to perform satisfactorily in ambient operating temperature ranges up to 483°C (900°F). These nickel-plated, steel alloy products are available in the butted seam, Krimptite™ barrel style. Ring tongue terminals cover the 22 through 10 AWG wire ranges to provide reliable performance time after time even in these hostile temperature environments.

#### Physical

Material: Steel  
Plating: Nickel

## 649°C Temp-Terms (1200°F)

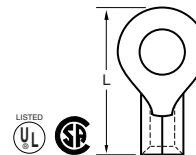
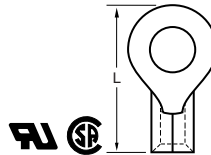
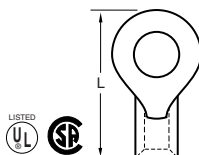
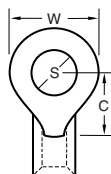


### Krimptite™

The ultimate in thermal reliability is afforded by the Molex 649°C (1200°F) TEMP-TERMS. The ring tongue terminals, which are fabricated from pure nickel, cover the 22 through 10 AWG wire range. These terminals have the butted seam Krimptite™ barrel.

#### Physical

Material: Nickel  
Plating: Nickel



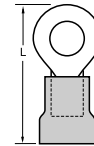
| Basic Dimensions        |                  |                         |                             | 343°C (650°F)<br>VersaKrimp™ |            |                          | 483°C (900°F)<br>Krimptite™ |            |                          | 649°C (1200°F)<br>Krimptite™ |            |                          | Lead-free |
|-------------------------|------------------|-------------------------|-----------------------------|------------------------------|------------|--------------------------|-----------------------------|------------|--------------------------|------------------------------|------------|--------------------------|-----------|
| Wire Range<br>AWG (mm²) | Stud Size<br>(S) | Maximum<br>Width<br>(W) | Minimum<br>Clearance<br>(C) | Order No.                    |            | Maximum<br>Length<br>(L) | Order No.                   |            | Maximum<br>Length<br>(L) | Order No.                    |            | Maximum<br>Length<br>(L) |           |
|                         |                  |                         |                             | Loose Piece                  | Mylar Tape |                          | Loose Piece                 | Mylar Tape |                          | Loose Piece                  | Mylar Tape |                          |           |
| 18-22 (0.96-0.38)       | 5-6              | 6.7 (.264)              | 6.1 (.240)                  |                              |            |                          | 19203-0483                  | 19203-0011 | 16.8 (.660)              |                              |            |                          | Yes       |
|                         | 8                | 6.7 (.264)              | 6.1 (.240)                  |                              |            |                          | 19203-0485                  | 19203-0014 | 16.8 (.660)              |                              |            |                          |           |
|                         | 10               | 7.2 (.283)              | 6.1 (.240)                  |                              |            |                          | 19203-0387                  | 19203-0016 | 17.0 (.670)              | 19203-0034                   | 19203-0035 | .591 (15.0)              |           |
|                         | 1/4              | 12.1 (.477)             | 9.8 (.386)                  |                              |            |                          | 19203-0486                  | 19203-0005 | 23.2 (.914)              |                              |            |                          |           |
| 14-16 (1.94-1.23)       | 5-6              | 6.6 (.260)              | 5.3 (.209)                  |                              |            |                          | 19203-0489                  | 19203-0043 | 16.2 (.639)              | 19203-0077                   | 19203-0078 | .560 (14.2)              |           |
|                         |                  | 8.2 (.322)              | 7.0 (.275)                  |                              |            |                          | 19203-0488                  | 19203-0048 | 18.4 (.725)              |                              |            |                          |           |
|                         | 8                | 8.2 (.322)              | 7.0 (.275)                  |                              |            |                          | 19203-0470                  | 19203-0050 | 18.4 (.725)              | 19203-0083                   | 19203-0084 | .640 (16.3)              |           |
|                         | 10               | 8.2 (.322)              | 7.0 (.275)                  | 19203-0063                   | 19203-0064 | 16.3 (.640)              | 19203-0388                  | 19203-0052 | 18.4 (.725)              | 19203-0085                   | 19203-0086 | .640 (16.3)              |           |
|                         | 1/4              | 12.1 (.477)             | 9.9 (.388)                  | 19203-0148                   | 19203-0058 | 21.2 (.837)              | 19203-0490                  | 19203-0045 | 23.3 (.916)              |                              |            |                          |           |
| 10-12 (5.01-3.09)       | 5-6              | 9.8 (.385)              | 7.7 (.303)                  |                              |            |                          | 19203-0493                  | 19203-0092 | 19.9 (.785)              |                              |            |                          |           |
|                         | 8                | 9.8 (.385)              | 7.7 (.303)                  | 19203-0156                   | 19203-0098 | 19.9 (.785)              | 19203-0494                  |            | 19.9 (.785)              |                              |            |                          |           |
|                         | 10               | 9.8 (.385)              | 7.7 (.303)                  | 19203-0099                   | 19203-0100 | 19.9 (.785)              | 19203-0389                  | 19203-0094 | 19.9 (.785)              | 19203-0113                   | 19203-0114 | .785 (19.9)              |           |
|                         | 1/4              | 13.7 (.540)             | 10.0 (.393)                 | 19203-0182                   | 19203-0101 | 24.2 (.952)              | 19203-0495                  | 19203-0095 | 24.2 (.952)              | 19203-0161                   |            |                          |           |
|                         | 5/16             | 13.7 (.540)             | 10.0 (.393)                 |                              |            |                          | 19203-0496                  | 19203-0096 | 24.2 (.952)              |                              |            |                          |           |
|                         | 3/8              | 13.7 (.540)             | 14.4 (.566)                 | 19203-0158                   | 19203-0103 | 26.8 (1.056)             |                             |            |                          |                              |            |                          |           |

IMPORTANT: The 343°C (650°F) TEMP-TERMS cataloged above represent only the more popular terminals and splices in the 22 through 10 AWG wire ranges. Other 343°C (650°F) TEMP-TERMS are available. Contact your Molex Customer Service Representative for more information.

# Ring Tongue Terminals



**Physical**  
Material: Copper



**A**  
Solderless Terminals

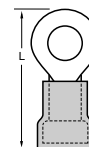
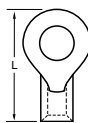
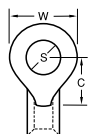
| Wire Range<br>AWG (mm <sup>2</sup> )                          | Stud Size<br>(S) | Dimension             |                   | Krimptite™  |            |                 | InsulKrimp™—PVC Insulation |            |                 | Lead-free |
|---------------------------------------------------------------|------------------|-----------------------|-------------------|-------------|------------|-----------------|----------------------------|------------|-----------------|-----------|
|                                                               |                  | Min. Clearance<br>(C) | Max. Width<br>(W) | Order No.   |            | Max. Length (L) | Order No.                  |            | Max. Length (L) |           |
|                                                               |                  |                       |                   | Loose Piece | Mylar Tape |                 | Loose Piece                | Mylar Tape |                 |           |
| 24-26 (0.22-0.13)                                             | 0                | 3.10 (.121)           | 3.80 (.150)       | 19069-0369  | 19069-0407 | 9.30 (.366)     |                            |            |                 |           |
|                                                               | 2                | 3.10 (.121)           | 3.80 (.150)       | 19069-0370  | 19069-0371 | 9.30 (.366)     |                            |            |                 |           |
|                                                               |                  | 5.50 (.215)           | 5.40 (.213)       | 19069-0352  | 19069-0353 | 12.50 (.492)    |                            |            |                 |           |
|                                                               |                  | 5.50 (.215)           | 3.80 (.150)       | 19069-0358  | 19069-0405 | 11.70 (.460)    |                            |            |                 |           |
|                                                               | 4                | 5.50 (.215)           | 5.40 (.213)       | 19069-0354  | 19069-0355 | 12.50 (.492)    |                            |            |                 |           |
|                                                               | 6                | 5.50 (.215)           | 5.40 (.213)       | 19069-0356  | 19069-0357 | 12.50 (.492)    |                            |            |                 |           |
|                                                               |                  | 7.40 (.290)           | 6.60 (.260)       | 19069-0361  | 19069-0362 | 15.00 (.590)    |                            |            |                 |           |
|                                                               | 8                | 7.40 (.290)           | 6.60 (.260)       | 19069-0363  | 19069-0364 | 15.00 (.590)    |                            |            |                 |           |
| 18-22 (0.96-0.38)                                             | 10               | 7.40 (.290)           | 6.60 (.260)       | 19069-0365  | 19069-0406 | 15.00 (.590)    |                            |            |                 |           |
|                                                               | 1-2              | 3.90 (.157)           | 6.00 (.235)       | 19069-0027  | 19069-0028 | 12.30 (.484)    | 19070-0005                 | 19070-0006 | 18.00 (.709)    |           |
|                                                               | 3-4              | 4.40 (.173)           | 5.00 (.197)       | 19069-0025  | 19069-0026 | 12.40 (.490)    |                            |            |                 |           |
|                                                               |                  | 3.90 (.157)           | 6.00 (.235)       | 19069-0029  | 19069-0030 | 12.30 (.484)    | 19070-0007                 | 19070-0008 | 18.00 (.709)    |           |
|                                                               |                  | 6.10 (.240)           | 6.70 (.264)       | 19069-0052  | 19069-0053 | 14.80 (.582)    | 19070-0038                 | 19070-0039 | 20.50 (.807)    |           |
|                                                               | 5-6              | 3.90 (.157)           | 6.00 (.235)       | 19069-0031  | 19069-0032 | 12.30 (.484)    | 19070-0009                 | 19070-0010 | 18.00 (.709)    |           |
|                                                               |                  | 6.10 (.240)           | 6.70 (.264)       | 19069-0054  | 19069-0055 | 14.80 (.582)    | 19070-0040                 | 19070-0042 | 20.50 (.807)    |           |
|                                                               |                  | 7.60 (.300)           | 8.20 (.322)       | 19069-0033  | 19069-0034 | 17.00 (.671)    | 19070-0011                 | 19070-0012 | 22.80 (.896)    |           |
|                                                               | 8                | 6.10 (.240)           | 6.70 (.264)       | 19069-0056  | 19069-0057 | 14.80 (.582)    | 19070-0044                 | 19070-0045 | 20.50 (.807)    |           |
|                                                               |                  | 7.60 (.300)           | 8.20 (.322)       | 19069-0035  | 19069-0036 | 17.00 (.671)    | 19070-0013                 | 19070-0014 | 22.80 (.896)    |           |
|                                                               |                  | 6.10 (.240)           | 7.20 (.283)       | 19069-0061  | 19069-0062 | 15.00 (.591)    | 19070-0051                 | 19070-0052 | 20.70 (.816)    |           |
|                                                               | 10               | 7.60 (.300)           | 8.20 (.322)       | 19069-0037  | 19069-0038 | 17.00 (.671)    | 19070-0015                 | 19070-0017 | 22.80 (.896)    |           |
|                                                               |                  | 9.80 (.386)           | 12.10 (.477)      | 19069-0040  | 19069-0041 | 21.20 (.835)    | 19070-0021                 | 19070-0022 | 26.90 (1.060)   |           |
|                                                               |                  | 9.80 (.386)           | 12.10 (.477)      | 19069-0042  | 19069-0044 | 21.20 (.835)    | 19070-0023                 | 19070-0024 | 26.90 (1.060)   |           |
|                                                               | 1/4              | 9.80 (.386)           | 12.10 (.477)      | 19069-0045  | 19069-0046 | 21.20 (.835)    | 19070-0026                 | 19070-0027 | 26.90 (1.060)   |           |
|                                                               | 5/16             | 9.80 (.386)           | 12.10 (.477)      | 19069-0049  | 19069-0050 | 26.30 (1.034)   | 19070-0033                 | 19070-0035 | 31.90 (1.259)   |           |
|                                                               | 3/8              | 14.00 (.552)          | 13.80 (.544)      | 19069-0098  | 19069-0134 | 14.20 (.560)    | 19070-0065                 | 19070-0066 | 19.90 (.785)    |           |
| 14-16 (1.94-1.23)                                             | 1-2              | 5.30 (.209)           | 6.60 (.260)       | 19069-0099  | 19069-0100 | 14.20 (.560)    | 19070-0067                 | 19070-0068 | 19.90 (.785)    |           |
|                                                               | 3-4              | 5.30 (.209)           | 6.60 (.260)       | 19069-0101  | 19069-0102 | 14.20 (.560)    | 19070-0069                 | 19070-0070 | 19.90 (.785)    |           |
|                                                               | 5-6              | 7.00 (.275)           | 8.20 (.322)       | 19069-0112  | 19069-0113 | 16.30 (.640)    | 19070-0083                 | 19070-0084 | 22.00 (.865)    |           |
|                                                               |                  | 5.30 (.209)           | 6.60 (.260)       | 19069-0103  | 19069-0104 | 14.20 (.560)    | 19070-0071                 | 19070-0072 | 19.90 (.785)    |           |
|                                                               |                  | 7.00 (.275)           | 8.20 (.322)       | 19069-0114  | 19069-0115 | 16.30 (.640)    | 19070-0086                 | 19070-0087 | 22.00 (.865)    |           |
|                                                               | 8                | 7.90 (.310)           | 8.90 (.352)       | 19069-0121  | 19069-0122 | 17.70 (.696)    | 19070-0099                 | 19070-0100 | 23.40 (.921)    |           |
|                                                               |                  | 7.00 (.275)           | 8.20 (.322)       | 19069-0116  | 19069-0117 | 16.30 (.640)    | 19070-0090                 | 19070-0092 | 22.00 (.865)    |           |
|                                                               |                  | 7.90 (.310)           | 8.90 (.352)       | 19069-0123  | 19069-0124 | 17.70 (.696)    | 19070-0102                 | 19070-0104 | 23.40 (.921)    |           |
|                                                               | 10               | 9.90 (.388)           | 12.10 (.477)      | 19069-0105  | 19069-0106 | 21.20 (.837)    | 19070-0073                 | 19070-0074 | 26.10 (1.062)   |           |
|                                                               |                  | 9.90 (.388)           | 12.10 (.477)      | 19069-0107  | 19069-0108 | 21.20 (.837)    | 19070-0075                 | 19070-0076 | 26.10 (1.062)   |           |
|                                                               |                  | 9.90 (.388)           | 12.10 (.477)      | 19069-0109  | 19069-0110 | 21.20 (.837)    | 19070-0078                 | 19070-0079 | 26.10 (1.062)   |           |
|                                                               | 5/16             | 13.60 (.535)          | 13.80 (.544)      | 19069-0096  | 19069-0097 | 25.70 (1.010)   | 19070-0063                 | 19070-0064 | 31.40 (1.235)   |           |
|                                                               | 3/8              | 13.60 (.535)          | 13.80 (.544)      | 19069-0093  | 19069-0094 | 25.70 (1.010)   | 19070-0059                 | 19070-0061 | 31.40 (1.235)   |           |
| 14-16 (1.94-1.23)<br>Heavy Duty<br>(Also suitable for 12 AWG) | 5-6              | 7.70 (.303)           | 9.80 (.385)       | 19044-0161  |            | 19.90 (.785)    | 19054-0090                 | 19054-0091 | 27.30 (1.076)   |           |
|                                                               | 8                | 7.70 (.303)           | 9.80 (.385)       | 19044-0162  |            | 19.90 (.785)    | 19054-0092                 | 19054-0093 | 27.30 (1.076)   |           |
|                                                               | 10               | 7.70 (.303)           | 9.80 (.385)       | 19044-0163  | 19044-0164 | 19.90 (.785)    | 19054-0094                 | 19054-0095 | 27.30 (1.076)   |           |
|                                                               |                  | 10.00 (.393)          | 13.70 (.540)      | 19044-0166  |            | 24.20 (.952)    | 19054-0096                 | 19054-0021 | 31.60 (1.243)   |           |
|                                                               | 1/4              | 10.00 (.393)          | 13.70 (.540)      | 19044-0167  | 19044-0023 | 24.20 (.952)    | 19054-0097                 |            | 31.60 (1.243)   |           |
|                                                               | 5/16             | 10.00 (.393)          | 13.70 (.540)      | 19044-0168  | 19044-0024 | 24.20 (.952)    | 19054-0098                 | 19054-0099 | 31.60 (1.243)   |           |
|                                                               |                  | 11.80 (.466)          | 13.70 (.540)      | 19044-0186  | 19044-0187 | 26.80 (1.056)   |                            |            | 31.60 (1.243)   |           |
|                                                               | 3/8              | 11.80 (.466)          | 13.70 (.540)      | 19044-0184  | 19044-0185 | 26.80 (1.056)   | 19054-0126                 | 19054-0127 | 34.20 (1.347)   |           |
|                                                               |                  | 15.50 (.611)          | 19.30 (.760)      | 19044-0140  |            | 32.50 (1.280)   | 19054-0066                 | 19054-0068 | 39.90 (1.571)   |           |
|                                                               | 7/16             | 15.50 (.611)          | 19.30 (.760)      | 19044-0142  | 19044-0229 | 32.50 (1.280)   | 19054-0070                 | 19054-0071 | 39.90 (1.571)   |           |
|                                                               | 1/2              | 15.50 (.611)          | 19.30 (.760)      | 19044-0137  | 19044-0138 | 32.50 (1.280)   | 19054-0063                 | 19054-0064 | 39.90 (1.571)   |           |
| 10-12(5.00-3.30)                                              | 5-6              | 7.80 (.306)           | 7.40 (.292)       | 19069-0230  | 19069-0232 | 18.80 (.741)    | 19070-0143                 | 19070-0144 | 26.20 (1.032)   |           |
|                                                               |                  | 7.70 (.303)           | 9.80 (.385)       | 19069-0202  |            | 19.90 (.785)    | 19070-0119                 | 19070-0120 | 27.30 (1.076)   |           |
|                                                               | 8                | 7.80 (.306)           | 7.40 (.292)       | 19069-0233  | 19069-0235 | 18.80 (.741)    | 19070-0145                 | 19070-0146 | 26.20 (1.032)   |           |
|                                                               |                  | 7.70 (.303)           | 9.80 (.385)       | 19069-0205  | 19069-0208 | 19.90 (.785)    | 19070-0121                 | 19070-0122 | 27.30 (1.076)   |           |
|                                                               |                  | 7.70 (.303)           | 9.80 (.385)       | 19069-0209  | 19069-0212 | 19.90 (.785)    | 19070-0123                 | 19070-0125 | 27.30 (1.076)   |           |
|                                                               | 10               | 10.00 (.393)          | 13.70 (.540)      | 19069-0217  | 19069-0218 | 24.20 (.952)    | 19070-0130                 | 19070-0131 | 31.60 (1.243)   |           |
|                                                               |                  | 14.40 (.566)          | 15.20 (.598)      | 19069-0236  |            | 26.80 (1.056)   |                            |            |                 |           |
|                                                               |                  | 10.00 (.393)          | 13.70 (.540)      | 19069-0219  | 19069-0221 | 24.20 (.952)    | 19070-0132                 | 19070-0133 | 31.60 (1.243)   |           |
|                                                               | 1/4              | 14.40 (.566)          | 15.20 (.598)      | 19069-0238  | 19069-0240 | 26.80 (1.056)   | 19070-0150                 | 19070-0151 | 34.20 (1.347)   |           |
|                                                               |                  | 10.00 (.393)          | 13.70 (.540)      | 19069-0223  | 19069-0225 | 24.20 (.952)    | 19070-0136                 | 19070-0137 | 31.60 (1.243)   |           |
|                                                               | 5/16             | 14.40 (.566)          | 15.20 (.598)      | 19069-0244  | 19069-0246 | 26.80 (1.056)   | 19070-0155                 | 19070-0156 | 34.20 (1.347)   |           |
|                                                               |                  | 14.40 (.566)          | 15.20 (.598)      | 19069-0241  | 19069-0243 | 26.80 (1.056)   | 19070-0153                 | 19070-0154 | 34.20 (1.347)   |           |
|                                                               | 3/8              | 15.50 (.611)          | 19.30 (.760)      | 19069-0196  | 19069-0145 | 32.50 (1.280)   |                            |            | 39.90 (1.571)   |           |
|                                                               |                  | 15.50 (.611)          | 19.30 (.760)      | 19069-0198  | 19069-0146 | 32.50 (1.280)   | 19070-0115                 | 19070-0116 | 39.90 (1.571)   |           |
|                                                               | 7/16             | 15.50 (.611)          | 19.30 (.760)      | 19069-0192  | 19069-0194 | 32.50 (1.280)   | 19070-0109                 | 19070-0110 | 39.90 (1.571)   |           |
|                                                               | 1/2              | 15.50 (.611)          | 19.30 (.760)      |             |            |                 |                            |            |                 |           |

Yes

# Ring Tongue Terminals



**Physical**  
Material: Copper



Solderless Terminals

| Wire Range<br>AWG (mm <sup>2</sup> )                             | Stud Size<br>(S) | Dimension             |                   | VersaKrimp™  |            |                 | Avikrimp™—Nylon Insulation |               |                 | Lead-free |
|------------------------------------------------------------------|------------------|-----------------------|-------------------|--------------|------------|-----------------|----------------------------|---------------|-----------------|-----------|
|                                                                  |                  | Min. Clearance<br>(C) | Max. Width<br>(W) | Order No.    |            | Max. Length (L) | Order No.                  |               | Max. Length (L) |           |
|                                                                  |                  |                       |                   | Loose Piece  | Mylar Tape |                 | Loose Piece                | Mylar Tape    |                 |           |
| 18-22 (0.96-0.38)                                                | 1-2              | 3.90 (.157)           | 6.00 (.235)       |              |            |                 | 19073-0005                 | 19073-0006    | 18.00 (.709)    | Yes       |
|                                                                  | 3-4              | 4.40 (.173)           | 5.00 (.197)       |              |            |                 | 19073-0003                 | 19073-0004    | 18.20 (.715)    |           |
|                                                                  |                  | 3.90 (.157)           | 6.00 (.235)       | 19193-0007   | 19193-0008 | 12.30 (.484)    | 19073-0007                 | 19073-0008    | 18.00 (.709)    |           |
|                                                                  |                  | 6.10 (.240)           | 6.70 (.264)       |              |            |                 | 19073-0036                 | 19073-0037    | 20.50 (.807)    |           |
|                                                                  | 5-6              | 3.90 (.157)           | 6.00 (.235)       | 19193-0009   | 19193-0011 | 12.30 (.484)    | 19073-0009                 | 19073-0010    | 18.00 (.709)    |           |
|                                                                  |                  | 6.10 (.240)           | 6.70 (.264)       | 19193-0034   | 19193-0035 | 14.80 (.582)    | 19073-0038                 | 19073-0040    | 20.50 (.807)    |           |
|                                                                  |                  | 7.60 (.300)           | 8.20 (.322)       | 19193-0012   | 19193-0013 | 17.00 (.671)    | 19073-0011                 | 19073-0012    | 22.80 (.896)    |           |
|                                                                  | 8                | 6.10 (.240)           | 6.70 (.264)       | 19193-0036   | 19193-0037 | 14.80 (.582)    | 19073-0042                 | 19073-0043    | 20.50 (.807)    |           |
|                                                                  |                  | 7.60 (.300)           | 8.20 (.322)       | 19193-0014   | 19193-0015 | 17.00 (.671)    | 19073-0013                 | 19073-0015    | 22.80 (.896)    |           |
|                                                                  | 10               | 6.10 (.240)           | 7.20 (.283)       | 19193-0041   | 19193-0042 | 15.00 (.591)    | 19073-0049                 | 19073-0050    | 20.70 (.816)    |           |
|                                                                  |                  | 7.60 (.300)           | 8.20 (.322)       | 19193-0016   | 19193-0017 | 17.00 (.671)    | 19073-0017                 | 19073-0019    | 22.80 (.896)    |           |
|                                                                  | 1/4              | 9.80 (.386)           | 12.10 (.477)      | 19193-0021   | 19193-0022 | 21.20 (.835)    | 19073-0024                 | 19073-0026    | 26.90 (1.060)   |           |
|                                                                  | 5/16             | 9.80 (.386)           | 12.10 (.477)      | 19193-0023   | 19193-0024 | 21.20 (.835)    | 19073-0027                 | 19073-0028    | 26.90 (1.060)   |           |
|                                                                  | 3/8              | 14.00 (.552)          | 13.80 (.544)      |              |            |                 | 19073-0032                 | 19073-0033    | 31.90 (1.259)   |           |
| 14-16 (1.94-1.23)                                                | 1-2              | 5.30 (.209)           | 6.60 (.260)       | 19193-0062   | 19193-0063 | 14.20 (.560)    |                            |               |                 | Yes       |
|                                                                  | 3-4              | 5.30 (.209)           | 6.00 (.260)       |              |            |                 | 19073-0065                 | 19073-0066    | 22.30 (.880)    |           |
|                                                                  | 5-6              | 5.30 (.209)           | 6.60 (.260)       |              |            |                 | 19073-0067                 | 19073-0070    | 22.30 (.880)    |           |
|                                                                  |                  | 7.00 (.275)           | 8.20 (.322)       | 19193-0078   | 19193-0079 | 16.30 (.640)    | 19073-0083                 | 19073-0084    | 22.30 (.880)    |           |
|                                                                  | 8                | 5.30 (.209)           | 6.60 (.260)       |              |            |                 | 19073-0072                 | 19073-0073    | 22.30 (.880)    |           |
|                                                                  |                  | 7.00 (.275)           | 8.20 (.322)       | 19193-0080   | 19193-0081 | 16.30 (.640)    | 19073-0085                 | 19073-0086    | 22.30 (.880)    |           |
|                                                                  |                  | 7.90 (.310)           | 8.90 (.352)       | 19193-0089   | 19193-0090 | 17.70 (.696)    | 19073-0094                 | 19073-0096    | 23.80 (.936)    |           |
|                                                                  | 10               | 7.00 (.275)           | 8.20 (.322)       | 19193-0082   | 19193-0083 | 16.30 (.640)    | 19073-0087                 | 19073-0088    | 22.30 (.880)    |           |
|                                                                  |                  | 7.90 (.310)           | 8.90 (.352)       | 19193-0091   | 19193-0092 | 17.70 (.696)    | 19073-0097                 | 19073-0099    | 23.80 (.936)    |           |
|                                                                  |                  | 9.90 (.388)           | 12.10 (.477)      |              |            |                 | 19073-0074                 | 19073-0075    | 27.40 (1.077)   |           |
|                                                                  | 1/4              | 9.90 (.388)           | 12.10 (.477)      | 19193-0072   | 19193-0073 | 21.20 (.837)    | 19073-0076                 | 19073-0077    | 27.40 (1.077)   |           |
|                                                                  | 5/16             | 9.90 (.388)           | 12.10 (.477)      | 19193-0074   | 19193-0075 | 21.20 (.837)    | 19073-0079                 | 19073-0080    | 27.40 (1.077)   |           |
|                                                                  |                  | 13.60 (.535)          | 13.80 (.544)      |              |            |                 | 19073-0061                 | 19073-0062    | 31.80 (1.250)   |           |
|                                                                  | 3/8              | 13.60 (.535)          | 13.80 (.544)      | 19193-0057   | 19193-0058 | 25.70 (1.010)   | 19073-0059                 | 19073-0060    | 31.80 (1.250)   |           |
| 14-16 (1.94-1.23)<br>Heavy Duty<br>(Also suitable<br>for 12 AWG) | 8                | 7.70 (.303)           | 9.80 (.385)       |              |            |                 | 19058-0041                 |               | 27.70 (1.091)   | Yes       |
|                                                                  | 10               | 7.70 (.303)           | 9.80 (.385)       |              |            |                 | 19058-0047                 | 19058-0050    | 27.70 (1.091)   |           |
|                                                                  |                  | 10.00 (.393)          | 13.70 (.540)      |              |            |                 |                            | 19058-0060    | 32.00 (1.258)   |           |
|                                                                  |                  | 1/4                   | 10.00 (.393)      | 13.70 (.540) |            |                 | 19058-0063                 | 19058-0068    | 32.00 (1.258)   |           |
|                                                                  | 5/16             | 10.00 (.393)          | 13.70 (.540)      |              |            | 19058-0072      | 19058-0077                 | 32.00 (1.258) |                 |           |
|                                                                  | 3/8              | 11.80 (.466)          | 15.20 (.598)      |              |            | 19058-0117      | 19058-0119                 | 34.60 (1.362) |                 |           |
|                                                                  | 7/16             | 15.50 (.611)          | 19.30 (.760)      |              |            | 19058-0026      |                            | 40.30 (1.586) |                 |           |
|                                                                  | 1/2              | 15.50 (.611)          | 19.30 (.760)      |              |            | 19058-0016      |                            | 40.30 (1.586) |                 |           |

| Wire Range<br>AWG (mm²) | Stud<br>Size<br>(S) | Dimension             |                   | VersaKrimp™ |            |                 | Avikrimp™—Nylon Insulation |            |                 |                                  |                | Lead-free |
|-------------------------|---------------------|-----------------------|-------------------|-------------|------------|-----------------|----------------------------|------------|-----------------|----------------------------------|----------------|-----------|
|                         |                     | Min. Clearance<br>(C) | Max. Width<br>(W) | Order No.   |            | Max. Length (L) | Order No.                  |            |                 |                                  | Max.Length (L) |           |
|                         |                     |                       |                   | Loose Piece | Mylar Tape |                 | Loose Piece                | Mylar Tape | Expanded Flare* | Expanded Flare<br>on Mylar Tape* |                |           |
| 10-12 (5.01-3.09)       | 5-6                 | 7.80 (.306)           | 7.40 (.292)       | 19193-0128  | 19193-0129 | 18.80 (.741)    | 19073-0216                 | 19073-0218 | 19073-0220      | 19073-0221                       | 27.00 (1.047)  | Yes       |
|                         |                     | 7.70 (.303)           | 9.80 (.385)       | 19193-0103  | 19193-0105 | 19.90 (.785)    | 19073-0160                 | 19073-0162 | 19073-0163      | 19073-0164                       | 27.70 (1.091)  |           |
|                         | 8                   | 7.80 (.306)           | 7.40 (.292)       | 19193-0130  | 19193-0131 | 18.80 (.741)    | 19073-0222                 | 19073-0224 | 19073-0225      | 19073-0226                       | 27.00 (1.047)  |           |
|                         |                     | 7.70 (.303)           | 9.80 (.385)       | 19193-0106  | 19193-0108 | 19.90 (.785)    | 19073-0165                 | 19073-0167 | 19073-0168      | 19073-0169                       | 27.70 (1.091)  |           |
|                         | 10                  | 7.70 (.303)           | 9.80 (.385)       | 19193-0109  | 19193-0111 | 19.90 (.785)    | 19073-0170                 | 19073-0172 | 19073-0173      | 19073-0174                       | 27.70 (1.091)  |           |
|                         |                     | 10.00 (.393)          | 13.70 (.540)      | 19193-0114  | 19193-0115 | 24.20 (.952)    | 19073-0179                 | 19073-0180 | 19073-0181      | 19073-0184                       | 32.00 (1.258)  |           |
|                         |                     | 11.80 (.466)          | 15.20 (.598)      |             |            |                 | 19073-0227                 | 19073-0228 | 19073-0229      | 19073-0230                       | 34.60 (1.362)  |           |
|                         | 1/4                 | 10.00 (.393)          | 13.70 (.540)      | 19193-0116  | 19193-0118 | 24.20 (.952)    | 19073-0188                 | 19073-0190 | 19073-0191      | 19073-0194                       | 32.00 (1.258)  |           |
|                         |                     | 11.80 (.466)          | 15.20 (.598)      | 19193-0134  | 19193-0135 | 26.80 (1.056)   | 19073-0231                 | 19073-0232 | 19073-0233      | 19073-0234                       | 34.60 (1.362)  |           |
|                         | 5/16                | 10.00 (.393)          | 13.70 (.540)      | 19193-0120  | 19193-0122 | 24.20 (.952)    | 19073-0200                 | 19073-0201 | 19073-0202      | 19073-0205                       | 32.00 (1.258)  |           |
|                         |                     | 11.80 (.466)          | 15.20 (.598)      | 19193-0141  | 19193-0142 | 26.80 (1.056)   | 19073-0242                 | 19073-0243 | 19073-0244      | 19073-0245                       | 34.60 (1.362)  |           |
|                         | 3/8                 | 11.80 (.466)          | 15.20 (.598)      | 19193-0137  | 19193-0139 | 26.80 (1.056)   | 19073-0236                 | 19073-0237 | 19073-0238      | 19073-0239                       | 34.60 (1.362)  |           |
|                         |                     | 15.50 (.611)          | 19.30 (.760)      | 19193-0097  |            | 32.50 (1.280)   |                            |            |                 |                                  |                |           |
|                         | 7/16                | 15.50 (.611)          | 19.30 (.760)      | 19193-0099  | 19193-0100 | 32.50 (1.280)   |                            |            |                 |                                  |                |           |
|                         | 1/2                 | 15.50 (.611)          | 19.30 (.760)      | 19193-0094  | 19193-0095 | 32.50 (1.280)   | 19073-0145                 | 19073-0146 | 19073-0147      |                                  | 40.30 (1.586)  |           |

\* For use with heavier wire insulation. Max. wire insulation 6.50mm (.255").

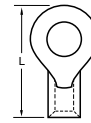
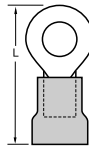
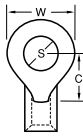
# Ring Tongue Terminals



**Physical**  
Material: Copper

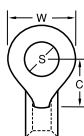
**A**

**Solderless Terminals**

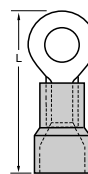


| Wire Range<br>AWG (mm <sup>2</sup> ) | Stud Size<br>(S) | Dimension             |                   | InsulKrimp™ – PVC Insulation |            |                 | VersaKrimp™ |            |                 | Lead-free |
|--------------------------------------|------------------|-----------------------|-------------------|------------------------------|------------|-----------------|-------------|------------|-----------------|-----------|
|                                      |                  | Min. Clearance<br>(C) | Max. Width<br>(W) | Order No.                    |            | Max. Length (L) | Order No.   |            | Max. Length (L) |           |
|                                      |                  |                       |                   | Loose Piece                  | Mylar Tape |                 | Loose Piece | Mylar Tape |                 |           |
| 8<br>(7.96)                          | 6                | 9.40 (.368)           | 9.90 (.389)       | 19071-0176                   | 19071-0177 | 31.80 (1.252)   | 19193-0198  | 19193-0199 | 23.80 (.937)    | Yes       |
|                                      | 8                | 9.40 (.368)           | 12.30 (.483)      | 19071-0134                   | 19071-0135 | 33.00 (1.299)   | 19193-0146  | 19193-0148 | 25.00 (.984)    |           |
|                                      |                  | 9.40 (.368)           | 9.90 (.389)       | 19071-0178                   | 19071-0179 | 31.80 (1.252)   | 19193-0200  | 19193-0201 | 23.80 (.937)    |           |
|                                      | 10               | 9.40 (.368)           | 12.30 (.483)      | 19071-0136                   | 19071-0139 | 33.00 (1.299)   | 19193-0149  | 19193-0151 | 25.00 (.984)    |           |
|                                      |                  | 11.00 (.433)          | 15.30 (.603)      | 19071-0146                   | 19071-0147 | 36.10 (1.421)   | 19193-0159  | 19193-0162 | 28.10 (1.106)   |           |
|                                      | 1/4              | 9.40 (.368)           | 9.90 (.389)       | 19071-0180                   | 19071-0181 | 31.80 (1.252)   | 19193-0202  | 19193-0203 | 23.80 (.937)    |           |
|                                      |                  | 9.40 (.368)           | 12.30 (.483)      | 19071-0140                   | 19071-0143 | 33.00 (1.299)   | 19193-0152  | 19193-0155 | 28.10 (1.106)   |           |
|                                      |                  | 11.00 (.433)          | 15.30 (.603)      | 19071-0148                   | 19071-0149 | 36.10 (1.421)   | 19193-0163  | 19193-0166 | 28.10 (1.106)   |           |
|                                      |                  | 9.30 (.368)           | 9.90 (.389)       | 19071-0182                   | 19071-0184 | 31.80 (1.252)   | 19193-0204  | 19193-0205 | 23.80 (.937)    |           |
|                                      | 5/16             | 9.40 (.368)           | 12.30 (.483)      | 19071-0144                   | 19071-0145 | 33.00 (1.299)   | 19193-0157  | 19193-0158 | 25.00 (.984)    |           |
|                                      |                  | 11.00 (.433)          | 15.30 (.603)      | 19071-0153                   | 19071-0155 | 36.10 (1.421)   | 19193-0171  | 19193-0174 | 28.10 (1.106)   |           |
|                                      | 3/8              | 11.00 (.433)          | 15.30 (.603)      | 19071-0150                   | 19071-0152 | 36.10 (1.421)   | 19193-0167  | 19193-0170 | 28.10 (1.106)   |           |
|                                      |                  | 15.60 (.616)          | 21.00 (.825)      | 19071-0162                   |            | 42.60 (1.718)   | 19193-0184  |            | 35.60 (1.403)   |           |
|                                      | 7/16             | 15.60 (.616)          | 21.00 (.825)      | 19071-0166                   |            | 42.60 (1.718)   | 19193-0187  | 19193-0189 | 35.60 (1.403)   |           |
|                                      | 1/2              | 15.60 (.616)          | 21.00 (.825)      | 19071-0334                   | 19071-0160 | 42.60 (1.718)   | 19193-0179  | 19193-0181 | 35.60 (1.403)   |           |
|                                      | 5/8              | 15.60 (.616)          | 21.00 (.825)      | 19071-0164                   | 19071-0165 | 42.60 (1.718)   | 19193-0186  |            | 35.60 (1.403)   |           |
|                                      |                  | 25.20 (.993)          | 29.00 (1.140)     | 19071-0173                   |            | 57.20 (2.253)   | 19193-0195  |            | 49.20 (1.938)   |           |
|                                      | 3/4              | 25.20 (.993)          | 29.00 (1.140)     |                              |            |                 | 19193-0192  |            | 49.20 (1.938)   |           |
| 6<br>(13.48)                         | 8                | 13.20 (.518)          | 16.40 (.645)      |                              |            |                 | 19193-0206  |            | 32.20 (1.268)   |           |
|                                      |                  | 13.20 (.518)          | 12.30 (.485)      | 19071-0218                   | 19071-0219 | 40.50 (1.593)   | 19193-0243  | 19193-0244 | 30.20 (1.188)   |           |
|                                      | 10               | 13.20 (.518)          | 16.40 (.645)      | 19071-0188                   | 19071-0189 | 42.50 (1.673)   | 19193-0209  | 19193-0211 | 32.20 (1.268)   |           |
|                                      |                  | 13.20 (.518)          | 12.30 (.485)      | 19071-0221                   | 19071-0223 | 40.50 (1.593)   | 19193-0245  | 19193-0247 | 30.20 (1.188)   |           |
|                                      | 1/4              | 15.50 (.610)          | 21.30 (.837)      |                              |            |                 | 19193-0225  |            | 37.00 (1.46)    |           |
|                                      |                  | 13.20 (.518)          | 16.40 (.645)      | 19071-0190                   | 19071-0192 | 42.50 (1.673)   | 19193-0212  | 19193-0215 | 32.20 (1.268)   |           |
|                                      |                  | 15.50 (.610)          | 21.30 (.837)      |                              |            |                 | 19193-0229  |            | 37.00 (1.456)   |           |
|                                      |                  | 13.20 (.518)          | 12.30 (.485)      | 19071-0225                   | 19071-0227 | 40.50 (1.593)   | 19193-0248  | 19193-0250 | 30.20 (1.188)   |           |
|                                      | 5/16             | 25.20 (.991)          | 28.90 (1.136)     |                              |            |                 | 19193-0237  |            | 50.60 (1.99)    |           |
|                                      |                  | 13.20 (.518)          | 16.40 (.645)      | 19071-0196                   | 19071-0198 | 42.50 (1.673)   | 19193-0219  | 19193-0222 | 32.20 (1.268)   |           |
|                                      |                  | 13.20 (.518)          | 12.30 (.485)      | 19071-0229                   | 19071-0230 | 40.50 (1.593)   | 19193-0251  | 19193-0253 | 30.20 (1.188)   |           |
|                                      |                  | 13.20 (.518)          | 16.40 (.645)      | 19193-0206                   |            | 32.20 (1.268)   |             |            |                 |           |
|                                      |                  | 15.50 (.610)          | 21.30 (.837)      |                              |            |                 | 19193-0232  |            | 37.00 (1.46)    |           |
|                                      |                  | 25.20 (.991)          | 28.90 (1.136)     |                              |            |                 | 19193-0240  |            | 50.60 (1.99)    |           |
|                                      | 3/8              | 13.20 (.518)          | 16.40 (.645)      | 19071-0193                   | 19071-0195 | 42.50 (1.673)   | 19193-0216  | 19193-0218 | 32.20 (1.268)   |           |
|                                      |                  | 15.50 (.610)          | 21.30 (.837)      |                              |            |                 | 19193-0230  | 19193-0231 | 37.00 (1.456)   |           |
|                                      | 7/16             | 25.20 (.991)          | 28.90 (1.136)     |                              |            |                 | 19193-0239  |            | 50.60 (1.99)    |           |
|                                      |                  | 15.50 (.610)          | 21.30 (.837)      | 19071-0208                   |            | 47.30 (1.861)   | 19193-0234  |            | 37.00 (1.456)   |           |
|                                      |                  | 25.20 (.991)          | 28.90 (1.136)     |                              |            |                 | 19193-0242  |            | 50.60 (1.99)    |           |
|                                      |                  | 13.20 (.518)          | 16.40 (.645)      |                              |            |                 | 19193-0223  |            | 32.20 (1.27)    |           |
|                                      | 1/2              | 15.50 (.610)          | 21.30 (.837)      | 19071-0201                   |            | 47.30 (1.861)   | 19193-0226  | 19193-0228 | 37.00 (1.456)   |           |
|                                      |                  | 25.20 (.991)          | 28.90 (1.136)     |                              |            |                 | 19193-0236  |            | 50.60 (1.99)    |           |
|                                      | 5/8              | 15.50 (.610)          | 21.30 (.837)      |                              |            |                 | 19193-0233  |            | 37.00 (1.456)   |           |
|                                      |                  | 25.20 (.991)          | 28.90 (1.136)     |                              |            |                 | 19193-0241  |            | 50.60 (1.99)    |           |
|                                      | 3/4              | 25.20 (.991)          | 28.90 (1.136)     | 19071-0212                   |            | 50.60 (1.991)   | 19193-0238  |            | 50.60 (1.991)   |           |
| 4<br>(21.28)                         | 10               | 13.40 (.527)          | 17.30 (.680)      | 19071-0231                   |            | 46.70 (1.840)   | 19193-0254  | 19193-0257 | 34.50 (1.357)   |           |
|                                      |                  | 13.40 (.527)          | 12.40 (.490)      | 19071-0250                   | 19071-0252 | 44.30 (1.744)   | 19193-0273  | 19193-0274 | 32.00 (1.261)   |           |
|                                      | 1/4              | 13.40 (.527)          | 17.30 (.680)      | 19071-0237                   |            | 46.70 (1.840)   | 19193-0261  | 19193-0263 | 34.50 (1.357)   |           |
|                                      |                  | 13.40 (.527)          | 12.40 (.490)      | 19071-0253                   | 19071-0254 | 44.30 (1.744)   | 19193-0275  | 19193-0277 | 32.00 (1.261)   |           |
|                                      | 5/16             | 13.40 (.527)          | 17.30 (.680)      | 19071-0243                   | 19071-0246 | 46.70 (1.840)   | 19193-0267  | 19193-0269 | 34.50 (1.357)   |           |
|                                      |                  | 13.40 (.527)          | 12.40 (.490)      |                              |            |                 | 19193-0278  | 19193-0280 | 33.00 (1.261)   |           |
|                                      | 3/8              | 13.40 (.527)          | 17.30 (.680)      | 19071-0240                   |            | 46.70 (1.840)   | 19193-0264  | 19193-0266 | 34.50 (1.357)   |           |
|                                      |                  | 25.30 (.996)          | 22.90 (.900)      |                              |            |                 | 19193-0283  |            | 49.10 (1.935)   |           |
|                                      | 1/2              | 13.40 (.527)          | 17.30 (.680)      | 19071-0234                   |            | 46.70 (1.840)   | 19193-0258  | 19193-0260 | 34.50 (1.357)   |           |
|                                      |                  | 25.30 (.996)          | 22.90 (.900)      |                              |            |                 | 19193-0281  |            | 49.10 (1.935)   |           |
|                                      | 5/8              | 25.30 (.996)          | 22.90 (.900)      |                              |            |                 | 19193-0285  |            | 49.10 (1.935)   |           |
|                                      |                  | 25.30 (.996)          | 32.40 (1.275)     |                              |            |                 | 19193-0293  |            | 53.90 (2.123)   |           |
|                                      | 3/4              | 25.30 (.996)          | 32.40 (1.275)     |                              |            |                 | 19193-0289  |            | 53.90 (2.123)   |           |

## Ring Tongue Terminals



**Physical**  
Material: Copper

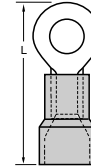
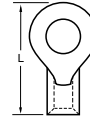
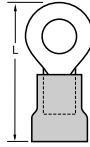
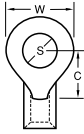


| Wire Range<br>AWG (mm²) | Stud Size (S) | Dimension                |                      | NylaKrimp™– Nylon Insulation |            |                       | Lead-free |
|-------------------------|---------------|--------------------------|----------------------|------------------------------|------------|-----------------------|-----------|
|                         |               | Minimum Clearance<br>(C) | Maximum Width<br>(W) | Order No.                    |            | Maximum Length<br>(L) |           |
|                         |               |                          |                      | Loose Piece                  | Mylar Tape |                       |           |
| 8 (7.96)                | 6             | 9.40 (.368)              | 9.90 (.389)          |                              |            | 34.30 (1.352)         |           |
|                         | 8             | 9.40 (.368)              | 12.30 (.483)         | 19067-0003                   | 19067-0005 | 35.50 (1.399)         |           |
|                         |               | 9.40 (.368)              | 9.90 (.389)          | 19067-0037                   | 19067-0038 | 34.30 (1.352)         |           |
|                         |               | 9.40 (.368)              | 12.30 (.483)         | 19067-0006                   | 19067-0007 | 35.50 (1.399)         |           |
|                         | 10            | 11.00 (.433)             | 15.30 (.603)         | 19067-0016                   | 19067-0017 | 38.60 (1.521)         |           |
|                         |               | 9.40 (.368)              | 9.90 (.389)          | 19067-0039                   | 19067-0040 | 34.30 (1.352)         |           |
|                         |               | 9.40 (.368)              | 12.30 (.483)         | 19067-0008                   | 19067-0011 | 35.50 (1.399)         |           |
|                         | 1/4           | 11.00 (.433)             | 15.30 (.603)         | 19067-0018                   | 19067-0019 | 38.60 (1.521)         |           |
|                         |               | 9.30 (.368)              | 9.90 (.389)          | 19067-0041                   | 19067-0042 | 34.30 (1.352)         |           |
|                         |               | 9.40 (.368)              | 12.30 (.483)         | 19067-0012                   | 19067-0013 | 35.50 (1.399)         |           |
|                         | 5/16          | 11.00 (.433)             | 15.30 (.603)         | 19067-0025                   | 19067-0026 | 38.60 (1.521)         |           |
|                         |               | 11.00 (.433)             | 15.30 (.603)         | 19067-0022                   | 19067-0024 | 38.60 (1.521)         |           |
|                         | 3/8           | 15.60 (.616)             | 21.00 (.825)         | 19067-0030                   |            | 46.20 (1.818)         |           |
|                         |               | 11.00 (.433)             | 15.30 (.603)         | 19067-0128                   | 19067-0027 | 38.60 (1.521)         |           |
|                         | 7/16          | 15.60 (.616)             | 21.00 (.825)         | 19067-0031                   |            | 46.20 (1.818)         |           |
|                         |               | 15.60 (.616)             | 21.00 (.825)         | 19067-0028                   |            | 46.20 (1.818)         |           |
|                         | 1/2           | 25.20 (.993)             | 29.00 (1.140)        | 19067-0032                   |            | 59.80 (2.353)         |           |
|                         |               | 15.60 (.616)             | 21.00 (.825)         | 19067-0129                   |            | 46.20 (1.818)         |           |
|                         | 5/8           | 25.20 (.993)             | 29.00 (1.140)        | 19067-0034                   |            | 59.80 (2.353)         |           |
|                         |               | 25.20 (.993)             | 29.00 (1.140)        | 19067-0033                   |            | 59.80 (2.353)         |           |
| 6 (13.48)               | 8             | 13.20 (.518)             | 12.30 (.485)         | 19067-0067                   | 19067-0068 | 41.20 (1.623)         | Yes       |
|                         | 10            | 13.20 (.518)             | 16.40 (.645)         | 19067-0045                   | 19067-0046 | 43.30 (1.703)         |           |
|                         |               | 13.20 (.518)             | 12.30 (.485)         | 19067-0069                   | 19067-0070 | 41.20 (1.623)         |           |
|                         | 1/4           | 13.20 (.518)             | 16.40 (.645)         | 19067-0047                   | 19067-0048 | 43.30 (1.703)         |           |
|                         |               | 13.20 (.518)             | 12.30 (.485)         | 19067-0071                   | 19067-0072 | 41.20 (1.623)         |           |
|                         | 5/16          | 13.20 (.518)             | 16.40 (.645)         | 19067-0055                   | 19067-0056 | 43.30 (1.703)         |           |
|                         |               | 13.20 (.518)             | 12.30 (.485)         | 19067-0073                   | 19067-0074 | 41.20 (1.623)         |           |
|                         | 3/8           | 13.20 (.518)             | 16.40 (.645)         | 19067-0052                   | 19067-0053 | 43.30 (1.703)         |           |
|                         |               | 15.50 (.610)             | 21.30 (.837)         | 19067-0063                   |            | 48.00 (1.891)         |           |
|                         | 7/16          | 13.20 (.518)             | 16.40 (.645)         | 19067-0059                   | 19067-0060 | 43.30 (1.703)         |           |
|                         |               | 15.50 (.610)             | 21.30 (.837)         | 19067-0065                   |            | 36.20 (1.426)         |           |
|                         | 1/2           | 15.50 (.610)             | 21.30 (.837)         | 19067-0061                   |            | 36.20 (1.426)         |           |
|                         | 5/8           | 15.50 (.610)             | 21.30 (.837)         |                              |            |                       |           |
|                         | 4 (21.28)     | 10                       | 13.40 (.527)         | 17.30 (.680)                 |            |                       |           |
| 13.40 (.527)            |               |                          | 12.40 (.490)         | 19067-0081                   |            | 46.50 (1.832)         |           |
| 1/4                     |               | 13.40 (.527)             | 17.30 (.680)         | 19067-0077                   |            | 49.00 (1.928)         |           |
|                         |               | 13.40 (.527)             | 12.40 (.490)         | 19067-0082                   |            | 46.50 (1.832)         |           |
| 5/16                    |               | 13.40 (.527)             | 17.30 (.680)         | 19067-0079                   | 19067-0141 | 49.00 (1.928)         |           |
|                         |               | 13.40 (.527)             | 12.40 (.490)         | 19067-0084                   |            | 46.50 (1.832)         |           |
| 3/8                     |               | 13.40 (.527)             | 17.30 (.680)         | 19067-0078                   |            | 49.00 (1.928)         |           |
| 7/16                    |               | 13.40 (.527)             | 17.30 (.680)         | 19067-0080                   |            | 49.00 (1.928)         |           |
| 1/2                     |               | 13.40 (.527)             | 17.30 (.680)         | 19067-0076                   |            | 49.00 (1.928)         |           |
|                         |               | 25.30 (.996)             | 22.90 (.900)         | 19067-0085                   |            | 63.70 (2.506)         |           |
| 5/8                     |               | 25.30 (.996)             | 22.90 (.900)         | 19067-0087                   |            | 63.70 (2.506)         |           |
|                         |               | 25.30 (.996)             | 32.40 (1.275)        | 19067-0089                   |            | 68.40 (2.694)         |           |
| 3/4                     |               | 25.30 (.996)             | 32.40 (1.275)        | 19067-0088                   |            | 68.40 (2.694)         |           |

# Ring Tongue Terminals



**Physical**  
Material: Copper

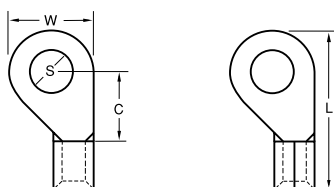


**A**

**Solderless Terminals**

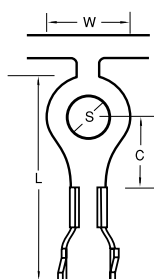
| Wire Range<br>AWG (mm²) | Stud Size<br>(S) | Dimension                |                      | InsulKrimp™- PVC Insulation |                       | VersaKrimp™              |                       | Funnel Entry NylaKrimp™ – Nylon Insulation |                       | Lead-free     |
|-------------------------|------------------|--------------------------|----------------------|-----------------------------|-----------------------|--------------------------|-----------------------|--------------------------------------------|-----------------------|---------------|
|                         |                  | Minimum Clearance<br>(C) | Maximum Width<br>(W) | Loose Piece<br>Order No.    | Maximum Length<br>(L) | Loose Piece<br>Order No. | Maximum Length<br>(L) | Loose Piece<br>Order No.                   | Maximum Length<br>(L) |               |
| 2<br>(33.70)            | 10               | 17.90 (.703)             | 16.40 (.645)         | 19071-0279                  | 53.20 (2.093)         | 19193-0303               | 40.20 (1.583)         | 19067-0095                                 | 55.50 (2.186)         |               |
|                         | 1/4              | 17.90 (.703)             | 22.30 (.879)         | 19071-0273                  | 56.10 (2.210)         | 19193-0297               | 43.20 (1.700)         |                                            |                       |               |
|                         |                  | 17.90 (.703)             | 16.40 (.645)         | 19071-0281                  | 53.20 (2.093)         | 19193-0305               | 40.20 (1.583)         | 19067-0096                                 | 55.50 (2.186)         |               |
|                         | 5/16             | 17.90 (.703)             | 22.30 (.879)         |                             |                       | 19193-0299               | 43.20 (1.700)         | 19067-0093                                 | 58.50 (2.303)         |               |
|                         |                  | 17.90 (.703)             | 16.40 (.645)         | 19071-0285                  | 53.20 (2.093)         | 19193-0309               | 40.20 (1.583)         | 19067-0098                                 | 55.50 (2.186)         |               |
|                         | 3/8              | 17.90 (.703)             | 22.30 (.879)         |                             |                       | 19193-0298               | 43.20 (1.700)         | 19067-0092                                 | 58.50 (2.303)         |               |
|                         |                  | 17.90 (.703)             | 16.40 (.645)         | 19071-0283                  | 53.20 (2.093)         | 19193-0307               | 40.20 (1.583)         | 19067-0097                                 | 55.50 (2.186)         |               |
|                         | 7/16             | 17.90 (.703)             | 22.30 (.879)         |                             |                       | 19193-0302               | 43.20 (1.700)         | 19067-0094                                 | 58.50 (2.303)         |               |
|                         | 1/2              | 17.90 (.703)             | 22.30 (.879)         | 19071-0272                  | 56.10 (2.210)         | 19193-0296               | 43.20 (1.700)         | 19067-0090                                 | 58.50 (2.303)         |               |
|                         | 5/8              | 17.90 (.703)             | 22.30 (.879)         | 19071-0277                  | 56.10 (2.210)         | 19193-0301               | 43.20 (1.700)         | 19067-0130                                 | 58.50 (2.303)         |               |
| 25.10 (.990)            |                  | 32.30 (1.270)            |                      |                             | 19193-0611            | 55.40 (2.183)            | 19067-0100            | 70.80 (2.786)                              |                       |               |
| 3/4                     | 25.10 (.990)     | 32.30 (1.270)            |                      |                             | 19193-0320            | 55.40 (2.183)            | 19067-0099            | 70.80 (2.786)                              | Yes                   |               |
| 1/4                     | 19.10 (.750)     | 21.30 (.840)             | 19071-0303           | 66.80 (2.630)               | 19193-0330            | 48.80 (1.920)            |                       |                                            |                       |               |
| 5/16                    | 19.10 (.750)     | 21.30 (.840)             | 19071-0306           | 66.80 (2.630)               | 19193-0333            | 48.80 (1.920)            | 19067-0104            | 66.80 (2.628)                              |                       |               |
| 3/8                     | 19.10 (.750)     | 21.30 (.840)             | 19071-0305           | 66.80 (2.630)               | 19193-0331            | 48.80 (1.920)            |                       |                                            |                       |               |
|                         | 19.10 (.750)     | 22.90 (.902)             |                      |                             | 19193-0612            | 49.60 (1.951)            | 19067-0101            | 67.50 (2.659)                              |                       |               |
|                         | 32.60 (1.282)    | 32.40 (1.277)            |                      |                             |                       |                          | 19067-0107            | 85.80 (3.379)                              |                       |               |
|                         | 7/16             | 19.10 (.750)             | 22.90 (.902)         | 19071-0302                  | 67.60 (2.661)         | 19193-0329               | 49.60 (1.951)         | 19067-0102                                 |                       | 67.50 (2.659) |
| 1/2                     | 19.10 (.750)     | 22.90 (.902)             |                      |                             | 19193-0325            | 49.60 (1.951)            |                       |                                            |                       |               |
|                         | 32.60 (1.282)    | 32.40 (1.277)            |                      |                             |                       |                          | 19067-0105            | 67.50 (2.659)                              |                       |               |
| 5/8                     | 32.60 (1.282)    | 32.40 (1.277)            |                      |                             |                       |                          | 19067-0108            | 67.50 (2.659)                              |                       |               |
| 3/4                     | 32.60 (1.282)    | 32.40 (1.277)            |                      |                             |                       |                          | 19067-0106            | 67.50 (2.659)                              |                       |               |
| 2/0<br>(67.39)          | 1/4              | 19.60 (.770)             | 24.10 (.948)         |                             |                       | 19193-0342               | 51.30 (2.019)         | 19067-0110                                 | 69.30 (2.727)         |               |
|                         | 5/16             | 19.60 (.770)             | 24.10 (.948)         | 19071-0312                  | 67.40 (2.654)         | 19193-0346               | 51.30 (2.019)         | 19067-0112                                 | 69.30 (2.727)         |               |
|                         | 3/8              | 19.60 (.770)             | 24.10 (.948)         | 19071-0311                  | 67.40 (2.654)         | 19193-0345               | 51.30 (2.019)         | 19067-0111                                 | 69.30 (2.727)         |               |
|                         | 7/16             | 19.60 (.770)             | 24.10 (.948)         | 19071-0313                  | 67.40 (2.654)         | 19193-0348               | 51.30 (2.019)         |                                            |                       |               |
|                         | 1/2              | 19.60 (.770)             | 24.10 (.948)         |                             |                       | 19193-0341               | 51.30 (2.019)         | 19067-0109                                 | 69.30 (2.727)         |               |
|                         |                  | 32.40 (1.275)            | 32.40 (1.275)        | 19071-0314                  | 84.40 (3.322)         | 19193-0350               | 68.20 (2.687)         | 19067-0114                                 | 86.20 (3.395)         |               |
|                         | 5/8              | 32.40 (1.275)            | 32.40 (1.275)        | 19071-0340                  | 84.40 (3.322)         | 19193-0352               | 68.20 (2.687)         |                                            |                       |               |
|                         | 3/4              | 32.40 (1.275)            | 32.40 (1.275)        | 19071-0339                  | 84.40 (3.322)         | 19193-0351               | 68.20 (2.687)         |                                            |                       |               |
|                         | 5/16             | 20.40 (.805)             | 27.10 (1.067)        |                             |                       | 19193-0360               | 54.70 (2.154)         |                                            |                       |               |
|                         | 3/8              | 20.40 (.805)             | 27.10 (1.067)        |                             |                       | 19193-0358               | 54.70 (2.154)         |                                            |                       |               |
| 3/0<br>(84.72)          | 7/16             | 20.40 (.805)             | 27.10 (1.067)        |                             |                       |                          |                       |                                            |                       |               |
|                         | 1/2              | 20.40 (.805)             | 27.10 (1.067)        | 19071-0315                  | 76.90 (3.029)         | 19193-0354               | 54.70 (2.154)         |                                            |                       |               |
|                         | 5/8              | 20.40 (.805)             | 27.10 (1.067)        | 19071-0319                  | 76.90 (3.029)         | 19193-0362               | 54.70 (2.154)         | 19067-0120                                 | 76.40 (3.008)         |               |
|                         | 3/4              | 32.40 (1.274)            | 32.00 (1.260)        | 19071-0352                  | 91.30 (3.594)         |                          |                       |                                            |                       |               |
|                         | 5/16             | 21.10 (.830)             | 28.80 (1.135)        |                             |                       | 19193-0569               | 52.30 (2.215)         | 19067-0369                                 | 78.30 (3.08)          |               |
|                         | 3/8              | 21.10 (.830)             | 28.80 (1.135)        |                             |                       | 19193-0375               | 52.30 (2.215)         | 19067-0124                                 | 78.30 (3.08)          |               |
|                         | 7/16             | 21.10 (.830)             | 28.80 (1.135)        |                             |                       | 19193-0379               | 52.30 (2.215)         | 19067-0125                                 | 78.30 (3.08)          |               |
|                         | 1/2              | 21.10 (.830)             | 28.80 (1.135)        |                             |                       | 19193-0372               | 52.30 (2.215)         | 19067-0123                                 | 78.30 (3.08)          |               |
|                         | 5/8              | 21.10 (.830)             | 28.80 (1.135)        |                             |                       | 19193-0377               | 52.30 (2.215)         | 19067-0131                                 | 78.30 (3.08)          |               |
|                         | 4/0<br>(107.76)  |                          |                      |                             |                       |                          |                       |                                            |                       |               |

# Krimptite™ Ring Tongue (offset)



**Physical**  
Material: Copper

| Wire Range<br>AWG (mm <sup>2</sup> ) | Stud Size (S) | Order No.  | Dimension             |                    |                   | Lead-free |
|--------------------------------------|---------------|------------|-----------------------|--------------------|-------------------|-----------|
|                                      |               |            | Minimum Clearance (C) | Maximum Length (L) | Maximum Width (W) |           |
| 12-14 (3.09-1.94)                    | 10            | 19069-0380 | 9.4 (.370)            | 20.4 (.804)        | 10.8 (.425)       | Yes       |

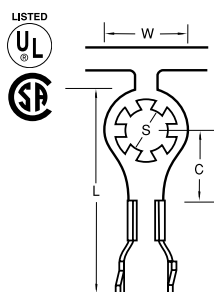


## Metal Strip Open Barrel Rings with Vibration Support

| Wire Range<br>AWG (mm <sup>2</sup> )  | Stud Size (S) | Order No.  | Diameter              |                   |                    | Lead-free |
|---------------------------------------|---------------|------------|-----------------------|-------------------|--------------------|-----------|
|                                       |               |            | Minimum Clearance (C) | Maximum Width (W) | Maximum Length (L) |           |
| 14-18 (1.94-0.96)<br>Brass            | 6             | 19085-0001 | 6.99 (.275)           | 9.98 (.385)       | 24.1 (.949)        | Yes       |
|                                       | 8             | 19085-0002 |                       |                   |                    |           |
|                                       | 10            | 19085-0003 |                       |                   |                    |           |
| 14-18 (1.94-0.96)<br>Tin-Plated Brass | 6             | 19085-0004 |                       |                   |                    |           |
|                                       | 8             | 19085-0005 |                       |                   |                    |           |
|                                       | 10            | 19085-0006 |                       |                   |                    |           |
| 14-18 (1.94-0.96)<br>Tin-Plated Steel | 6             | 19085-0007 |                       |                   |                    |           |
|                                       | 8             | 19085-0008 |                       |                   |                    |           |
|                                       | 10            | 19085-0009 |                       |                   |                    |           |

Note: 14-18 part will accept 12 gauge wire

## Star Ring Terminals



## Metal Strip Open Barrel Star Rings with Vibration Support

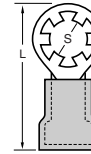
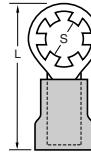
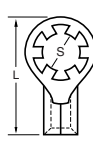
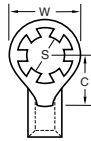
| Wire Range<br>AWG (mm <sup>2</sup> )  | Stud Size (S) | Order No.  | Dimension             |                   |                    | Lead-free |
|---------------------------------------|---------------|------------|-----------------------|-------------------|--------------------|-----------|
|                                       |               |            | Minimum Clearance (C) | Maximum Width (W) | Maximum Length (L) |           |
| 14-18 (1.94-0.96)<br>Brass            | 6             | 19084-0001 | 6.99 (.275)           | 9.98 (.385)       | .949               | Yes       |
|                                       | 8             | 19084-0002 |                       |                   |                    |           |
|                                       | 10            | 19084-0003 |                       |                   |                    |           |
| 14-18 (1.94-0.96)<br>Tin-Plated Brass | 6             | 19084-0004 |                       |                   |                    |           |
|                                       | 8             | 19084-0005 |                       |                   |                    |           |
|                                       | 10            | 19084-0006 |                       |                   |                    |           |
| 14-18 (1.94-0.96)<br>Tin-Plated Steel | 6             | 19084-0007 |                       |                   |                    |           |
|                                       | 8             | 19084-0008 |                       |                   |                    |           |
|                                       | 10            | 19084-0009 |                       |                   |                    |           |

Note: 14-18 part will accept 12 gauge wire

# Star Ring Terminals



The Star Ring is a serrated ring that is mainly used for grounding. Unlike a ring terminal, when you tighten down on a star ring, the “star blades”, or serrated edges, actually pierce through paint or other coatings, and bite into the metal to insure a good connection or ground. The product may also eliminate the need for lock washers.



| Wire Range<br>AWG (mm <sup>2</sup> ) | Stud Size<br>(S) | Dimension                   |                         | Krimptite™  |            |                          | InsulKrimp™ – PVC Insulation |            |                          | Avikrimp™ – Nylon Insulation |            |                          | Lead-free |
|--------------------------------------|------------------|-----------------------------|-------------------------|-------------|------------|--------------------------|------------------------------|------------|--------------------------|------------------------------|------------|--------------------------|-----------|
|                                      |                  | Minimum<br>Clearance<br>(C) | Maximum<br>Width<br>(W) | Order No.   |            | Maximum<br>Length<br>(L) | Order No.                    |            | Maximum<br>Length<br>(L) | Order No.                    |            | Maximum<br>Length<br>(L) |           |
|                                      |                  |                             |                         | Loose Piece | Mylar Tape |                          | Loose Piece                  | Mylar Tape |                          | Loose Piece                  | Mylar Tape |                          |           |
| 18-22 (0.96-0.38)<br>Brass           | 6                | 6.99 (.275)                 | 9.98 (.385)             | 19074-0001  | 19074-0002 | 17.8 (.70)               | 19075-0001                   | 19075-0002 | 23.6 (.93)               | 19077-0001                   | 19077-0002 | 23.6 (.93)               | Yes       |
|                                      | 8                |                             |                         | 19074-0004  | 19074-0006 |                          | 19075-0003                   | 19075-0004 |                          | 19077-0005                   | 19077-0006 |                          |           |
|                                      | 10               |                             |                         | 19074-0007  | 19074-0008 |                          | 19075-0005                   | 19075-0006 |                          | 19077-0007                   | 19077-0008 |                          |           |
| 18-22 (0.96-0.38)<br>Steel           | 6                |                             |                         | 19074-0009  | 19074-0010 |                          | 19075-0007                   | 19075-0008 |                          | 19077-0009                   | 19077-0010 |                          |           |
|                                      | 8                |                             |                         | 19074-0011  | 19074-0012 |                          | 19075-0009                   | 19075-0010 |                          | 19077-0011                   | 19077-0012 |                          |           |
|                                      | 10               |                             |                         | 19074-0013  | 19074-0014 |                          | 19075-0011                   | 19075-0012 |                          | 19077-0013                   | 19077-0014 |                          |           |
| 14-16 (1.94-1.23)<br>Brass           | 6                |                             |                         | 19074-0015  | 19074-0016 |                          | 19075-0013                   | 19075-0014 |                          | 19077-0015                   | 19077-0016 |                          |           |
|                                      | 8                |                             |                         | 19074-0017  | 19074-0018 |                          | 19075-0015                   | 19075-0016 |                          | 19077-0017                   | 19077-0018 |                          |           |
|                                      | 10               |                             |                         | 19074-0019  | 19074-0020 |                          | 19075-0017                   | 19075-0018 |                          | 19077-0019                   | 19077-0020 |                          |           |
| 14-16 (1.94-1.23)<br>Brass Steel     | 6                |                             |                         | 19074-0021  | 19074-0022 |                          | 19075-0019                   | 19075-0020 |                          | 19077-0021                   | 19077-0022 |                          |           |
|                                      | 8                |                             |                         | 19074-0023  | 19074-0024 |                          | 19075-0021                   | 19075-0022 |                          | 19077-0023                   | 19077-0024 |                          |           |
|                                      | 10               |                             |                         | 19074-0025  | 19074-0026 |                          | 19075-0023                   | 19075-0024 |                          | 19077-0025                   | 19077-0026 |                          |           |

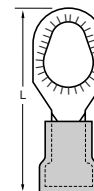
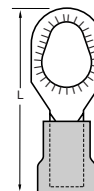
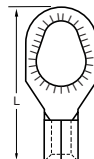
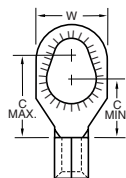
# Multi-Stud Rings

## Features and Benefits

- One terminal mates with a range of stud sizes
- Consolidates inventory by reducing the number of part numbers required for purchase
- Available in loose piece and tape mounted format

## Physical

Material: Copper



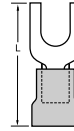
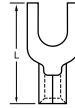
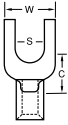
| Wire Range<br>AWG (mm <sup>2</sup> ) | Stud Size<br>(S) | Dimension                   |                         | Krimptite™     |               |                          | InsulKrimp™ – PVC Insulation |               |                          | Avikrimp™ – Nylon Insulation |               |                          | Lead-free |
|--------------------------------------|------------------|-----------------------------|-------------------------|----------------|---------------|--------------------------|------------------------------|---------------|--------------------------|------------------------------|---------------|--------------------------|-----------|
|                                      |                  | Minimum<br>Clearance<br>(C) | Maximum<br>Width<br>(W) | Order No.      |               | Maximum<br>Length<br>(L) | Order No.                    |               | Maximum<br>Length<br>(L) | Order No.                    |               | Maximum<br>Length<br>(L) |           |
|                                      |                  |                             |                         | Loose<br>Piece | Mylar<br>Tape |                          | Loose<br>Piece               | Mylar<br>Tape |                          | Loose<br>Piece               | Mylar<br>Tape |                          |           |
| 18-22<br>(0.96-0.38)                 | 6 - 8 - 10       | 11.4 (.447)/<br>8.4 (.330)  | 8.84 (.348)             | 19079-0004     | 19079-0005    | 22.0 (.866)              | 19080-0001                   | 19080-0002    | 29.8 (1.172)             | 19081-0001                   | 19081-0002    | 29.2 (1.148)             | Yes       |
| 14-16<br>(1.94-1.23)                 | 6 - 8 - 10       |                             | 9.19 (.362)             | 19079-0007     | 19079-0009    | 22.0 (.866)              | 19080-0003                   | 19080-0004    | 29.8 (1.172)             | 19081-0003                   | 19081-0004    | 29.2 (1.148)             |           |
| 10-12<br>(5.01-3.09)                 | 6 - 8 - 10       |                             | 10.4 (.410)             | 19079-0011     | 19079-0012    | 22.6 (.890)              | 19080-0005                   | 19080-0006    | 30.3 (1.191)             | 19081-0005                   | 19081-0006    | 32.9 (1.295)             |           |

# Spade Tongue Terminals

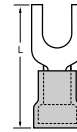


**Physical**  
Material: Copper

Solderless Terminals



| Wire Range<br>AWG (mm <sup>2</sup> ) | Stud Size<br>(S) | Minimum Clearance<br>(C) | Maximum Width<br>(W) | Krimptite™  |            |                       | InsulKrimp™ – PVC Insulation |            |                       | Lead-free |
|--------------------------------------|------------------|--------------------------|----------------------|-------------|------------|-----------------------|------------------------------|------------|-----------------------|-----------|
|                                      |                  |                          |                      | Order No.   |            | Maximum Length<br>(L) | Order No.                    |            | Maximum Length<br>(L) |           |
|                                      |                  |                          |                      | Loose Piece | Mylar Tape |                       | Loose Piece                  | Mylar Tape |                       |           |
| 18-22 (0.96-0.38)                    | 5-6              | 7.70 (.303)              | 8.30 (.326)          | 19141-0020  | 19141-0021 | 17.50 (.690)          | 19144-0001                   | 19144-0002 | 23.20 (.915)          | Yes       |
|                                      | 8                | 7.70 (.303)              | 8.30 (.326)          | 19141-0022  | 19141-0023 | 17.50 (.690)          | 19144-0003                   | 19144-0004 | 23.20 (.915)          |           |
|                                      | 10               | 7.70 (.303)              | 8.30 (.326)          | 19141-0024  | 19141-0025 | 17.50 (.690)          | 19144-0005                   | 19144-0006 | 23.20 (.915)          |           |
| 14-16 (1.94-1.23)                    | 3-4              | 5.30 (.209)              | 6.50 (.255)          | 19141-0050  |            | 14.40 (.565)          | 19144-0013                   | 19144-0014 | 20.10 (.790)          |           |
|                                      |                  | 5.30 (.209)              | 6.50 (.255)          | 19141-0052  | 19141-0053 | 14.40 (.565)          | 19144-0015                   | 19144-0016 | 20.10 (.790)          |           |
|                                      | 5-6              | 5.40 (.211)              | 7.70 (.305)          | 19141-0056  | 19141-0057 | 14.30 (.564)          | 19144-0018                   | 19144-0019 | 20.00 (.789)          |           |
|                                      |                  | 5.40 (.211)              | 7.70 (.305)          | 19141-0058  | 19141-0059 | 14.30 (.564)          | 19144-0020                   | 19144-0021 | 20.00 (.789)          |           |
|                                      | 8                | 6.80 (.269)              | 9.40 (.372)          | 19141-0063  | 19141-0064 | 17.40 (.687)          | 19144-0024                   | 19144-0025 | 23.20 (.912)          |           |
|                                      |                  | 10                       | 6.80 (.269)          | 9.40 (.372) | 19141-0065 | 19141-0066            | 17.40 (.687)                 | 19144-0026 | 19144-0027            |           |
| 10-12 (5.01-3.09)                    | 5-6              | 7.60 (.301)              | 9.80 (.385)          | 19141-0081  | 19141-0082 | 20.60 (.812)          | 19144-0037                   | 19144-0038 | 28.00 (1.103)         |           |
|                                      | 8                | 7.60 (.301)              | 9.80 (.385)          | 19141-0083  | 19141-0084 | 20.60 (.812)          | 19144-0039                   | 19144-0041 | 28.00 (1.103)         |           |
|                                      | 10               | 7.60 (.301)              | 9.80 (.385)          | 19141-0085  | 19141-0086 | 20.60 (.812)          | 19144-0042                   | 19144-0043 | 28.00 (1.103)         |           |



| Wire Range<br>AWG (mm <sup>2</sup> ) | Stud Size<br>(S) | Minimum<br>Clearance<br>(C) | Maximum<br>Width<br>(W) | Avikrimp™ – Nylon Insulation |               |                   |                                 |                          | Lead-free |
|--------------------------------------|------------------|-----------------------------|-------------------------|------------------------------|---------------|-------------------|---------------------------------|--------------------------|-----------|
|                                      |                  |                             |                         | Order No.                    |               |                   |                                 | Maximum<br>Length<br>(L) |           |
|                                      |                  |                             |                         | Loose<br>Piece               | Mylar<br>Tape | Expanded<br>Flare | Expanded Flare on<br>Mylar Tape |                          |           |
| 18-22 (0.96-0.38)                    | 5-6              | 7.70 (.303)                 | 8.30 (.326)             | 19198-0070                   | 19198-0071    |                   |                                 | 23.20 (.915)             | Yes       |
|                                      | 8                | 7.70 (.303)                 | 8.30 (.326)             | 19198-0004                   | 19198-0005    |                   |                                 | 23.20 (.915)             |           |
|                                      | 10               | 7.70 (.303)                 | 8.30 (.326)             | 19198-0006                   | 19198-0007    |                   |                                 | 23.20 (.915)             |           |
| 14-16 (1.94-1.23)                    | 5-6              | 5.30 (.209)                 | 6.50 (.255)             | 19198-0012                   | 19198-0013    |                   |                                 | 20.50 (.805)             |           |
|                                      |                  | 5.40 (.211)                 | 7.70 (.305)             | 19198-0016                   | 19198-0018    |                   |                                 | 20.40 (.804)             |           |
|                                      | 8                | 5.40 (.211)                 | 7.70 (.305)             | 19198-0019                   | 19198-0020    |                   |                                 | 20.40 (.804)             |           |
|                                      | 10               | 6.80 (.269)                 | 9.40 (.372)             | 19198-0025                   | 19198-0026    |                   |                                 | 23.60 (.927)             |           |
| 10-12 (5.01-3.09)                    | 5-6              | 7.60 (.301)                 | 9.80 (.385)             | 19198-0044                   | 19198-0045    |                   | 19198-0046                      | 28.40 (1.118)            |           |
|                                      | 8                | 7.60 (.301)                 | 9.80 (.385)             | 19198-0047                   | 19198-0048    |                   | 19198-0049                      | 28.40 (1.118)            |           |
|                                      | 10               | 7.60 (.301)                 | 9.80 (.385)             | 19198-0050                   | 19198-0051    |                   | 19198-0052                      | 28.40 (1.118)            |           |

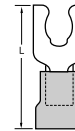
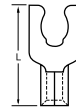
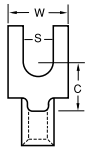
# Snap Spade Terminals



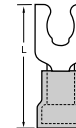
**Physical**  
Material: Copper

**A**

**Solderless Terminals**



| Wire Range<br>AWG (mm²) | Stud Size<br>(S) | Minimum Clearance<br>(C) | Maximum Width<br>(W) | Krimptite™  |            |                       | InsulKrimp™ – PVC Insulation |            |                       | Lead-free |
|-------------------------|------------------|--------------------------|----------------------|-------------|------------|-----------------------|------------------------------|------------|-----------------------|-----------|
|                         |                  |                          |                      | Order No.   |            | Maximum Length<br>(L) | Order No.                    |            | Maximum Length<br>(L) |           |
|                         |                  |                          |                      | Loose Piece | Mylar Tape |                       | Loose Piece                  | Mylar Tape |                       |           |
| 18-22 (0.96-0.38)       | 5                | 5.80 (.230)              | 6.60 (.260)          | 19098-0017  | 19098-0077 | 14.80 (.585)          | 19099-0007                   | 19099-0008 | 20.60 (.810)          | Yes       |
|                         | 5-6              | 5.80 (.230)              | 6.60 (.260)          | 19098-0018  | 19098-0019 | 14.80 (.585)          | 19099-0009                   | 19099-0010 | 20.60 (.810)          |           |
|                         | 8                | 6.60 (.261)              | 8.10 (.320)          | 19098-0023  | 19098-0080 | 16.40 (.646)          | 19099-0013                   | 19099-0014 | 22.10 (.871)          |           |
|                         | 10               | 6.60 (.261)              | 8.60 (.340)          | 19098-0024  | 19098-0081 | 17.60 (.694)          | 19099-0015                   | 19099-0016 | 23.30 (.919)          |           |
| 14-16 (1.94-1.23)       | 5                | 5.80 (.230)              | 6.60 (.260)          | 19098-0041  | 19098-0042 | 14.80 (.585)          | 19099-0025                   | 19099-0026 | 20.60 (.810)          |           |
|                         | 5-6              | 5.80 (.230)              | 6.60 (.260)          | 19098-0043  | 19098-0044 | 14.80 (.585)          | 19099-0027                   | 19099-0028 | 20.60 (.810)          |           |
|                         | 8                | 6.60 (.261)              | 8.10 (.320)          | 19098-0047  | 19098-0048 | 16.40 (.646)          | 19099-0032                   | 19099-0033 | 22.10 (.871)          |           |
|                         | 10               | 6.60 (.261)              | 8.60 (.340)          | 19098-0049  | 19098-0050 | 17.60 (.694)          | 19099-0034                   | 19099-0035 | 23.30 (.919)          |           |
| 10-12 (5.01-3.09)       | 5-6              | 5.80 (.230)              | 6.60 (.260)          | 19098-0069  | 19098-0070 | 16.90 (.664)          | 19099-0044                   | 19099-0045 | 24.30 (.995)          |           |
|                         | 8                | 6.60 (.261)              | 8.10 (.320)          | 19098-0073  | 19098-0091 | 18.40 (.725)          | 19099-0048                   | 19099-0049 | 25.70 (1.016)         |           |
|                         | 10               | 6.60 (.261)              | 8.60 (.340)          | 19098-0074  | 19098-0075 | 19.60 (.773)          | 19099-0050                   | 19099-0051 | 27.00 (1.064)         |           |



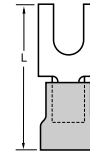
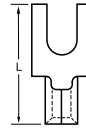
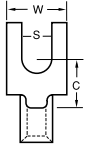
| Wire Range<br>AWG (mm²) | Stud Size<br>(S) | Minimum Clearance<br>(C) | Maximum Width<br>(W) | Avikrimp™ – Nylon Insulation |            |                       | Lead-free |  |
|-------------------------|------------------|--------------------------|----------------------|------------------------------|------------|-----------------------|-----------|--|
|                         |                  |                          |                      | Order No.                    |            | Maximum Length<br>(L) |           |  |
|                         |                  |                          |                      | Loose Piece                  | Mylar Tape |                       |           |  |
| 18-22 (0.96-0.38)       | 5                | 5.80 (.230)              | 6.60 (.260)          | 19115-0007                   | 19115-0008 | 20.60 (.810)          | Yes       |  |
|                         | 5-6              | 5.80 (.230)              | 6.60 (.260)          | 19115-0009                   | 19115-0010 | 20.60 (.810)          |           |  |
|                         | 8                | 6.60 (.261)              | 8.10 (.320)          | 19115-0012                   | 19115-0013 | 22.10 (.871)          |           |  |
|                         | 10               | 6.60 (.261)              | 8.60 (.340)          | 19115-0014                   | 19115-0015 | 23.30 (.919)          |           |  |
| 14-16 (1.94-1.23)       | 5                | 5.80 (.230)              | 6.60 (.260)          | 19115-0022                   | 19115-0023 | 21.00 (.825)          |           |  |
|                         | 5-6              | 5.80 (.230)              | 6.60 (.260)          | 19115-0024                   | 19115-0025 | 21.00 (.825)          |           |  |
|                         | 8                | 6.60 (.261)              | 8.10 (.320)          | 19115-0079                   | 19115-0030 | 22.50 (.886)          |           |  |
|                         | 10               | 6.60 (.261)              | 8.60 (.340)          | 19115-0031                   | 19115-0032 | 23.70 (.934)          |           |  |
| 10-12 (5.01-3.09)       | 5                | 5.80 (.230)              | 6.60 (.260)          | 19115-0041                   | 19115-0057 | 24.60 (.970)          |           |  |
|                         | 5-6              | 5.80 (.230)              | 6.60 (.260)          | 19115-0042                   | 19115-0043 | 24.60 (.970)          |           |  |
|                         | 8                | 6.60 (.261)              | 8.10 (.320)          | 19115-0046                   | 19115-0047 | 26.20 (1.031)         |           |  |
|                         | 10               | 6.60 (.261)              | 8.60 (.340)          | 19115-0048                   | 19115-0049 | 27.40 (1.079)         |           |  |

# Block Spade Terminals

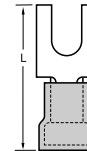


**Physical**  
Material: Copper

Solderless Terminals



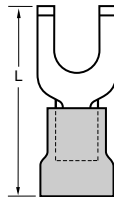
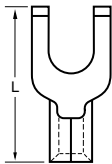
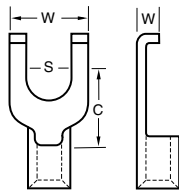
| Wire Range<br>AWG (mm <sup>2</sup> ) | Stud Size<br>(S) | Minimum Clearance<br>(C) | Maximum Width<br>(W) | Krimptite™  |            |                       | InsulKrimp™ – PVC Insulation |            |                       | Lead-free |
|--------------------------------------|------------------|--------------------------|----------------------|-------------|------------|-----------------------|------------------------------|------------|-----------------------|-----------|
|                                      |                  |                          |                      | Order No.   |            | Maximum Length<br>(L) | Order No.                    |            | Maximum Length<br>(L) |           |
|                                      |                  |                          |                      | Loose Piece | Mylar Tape |                       | Loose Piece                  | Mylar Tape |                       |           |
| 18-22 (0.96-0.38)                    | 1-2              | 4.60 (.183)              | 5.00 (.192)          | 19129-0055  | 19129-0054 | 12.80 (.502)          | 19131-0047                   | 19131-0046 | 18.40 (.727)          | Yes       |
|                                      | 3-4              | 4.60 (.183)              | 5.00 (.192)          | 19129-0053  | 19129-0052 | 12.80 (.502)          | 19131-0045                   | 19131-0044 | 18.40 (.727)          |           |
|                                      |                  | 5.30 (.207)              | 6.50 (.255)          | 19129-0041  | 19129-0040 | 14.20 (.560)          |                              |            |                       |           |
|                                      | 5-6              | 5.30 (.207)              | 6.50 (.255)          | 19129-0039  | 19129-0038 | 14.20 (.560)          | 19131-0031                   | 19131-0030 | 19.90 (.785)          |           |
|                                      |                  | 7.70 (.305)              | 6.50 (.260)          | 19129-0051  | 19129-0050 | 17.00 (.670)          | 19131-0042                   | 19131-0041 | 22.70 (.895)          |           |
|                                      |                  | 5.30 (.207)              | 7.60 (.301)          | 19129-0047  | 19129-0046 | 14.20 (.560)          | 19131-0038                   | 19131-0037 | 19.90 (.785)          |           |
|                                      | 8                | 5.30 (.207)              | 7.60 (.301)          | 19129-0045  | 19129-0044 | 14.20 (.560)          | 19131-0036                   | 19131-0035 | 19.90 (.785)          |           |
|                                      | 10               | 5.30 (.207)              | 7.60 (.301)          | 19129-0043  | 19129-0042 | 14.20 (.560)          | 19131-0034                   |            | 19.90 (.785)          |           |
| 14-16 (1.94-1.23)                    | 3-4              | 5.30 (.209)              | 6.40 (.255)          | 19129-0032  |            | 14.20 (.560)          | 19131-0025                   | 19131-0024 | 19.90 (.784)          |           |
|                                      | 5-6              | 5.30 (.209)              | 6.40 (.255)          | 19129-0030  | 19129-0028 | 14.20 (.560)          | 19131-0023                   | 19131-0022 | 19.90 (.784)          |           |
|                                      |                  | 5.40 (.211)              | 7.70 (.305)          | 19129-0024  | 19129-0069 | 14.20 (.560)          | 19131-0020                   | 19131-0019 | 19.90 (.784)          |           |
|                                      | 8                | 5.40 (.211)              | 7.70 (.305)          | 19129-0022  | 19129-0021 | 14.10 (.556)          | 19131-0018                   | 19131-0016 | 19.90 (.784)          |           |
|                                      | 10               | 5.40 (.211)              | 7.70 (.305)          | 19129-0020  | 19129-0019 | 14.10 (.556)          | 19131-0014                   | 19131-0012 | 19.80 (.781)          |           |
|                                      |                  |                          |                      |             |            |                       |                              |            |                       |           |
| 10-12 (5.01-3.09)                    | 5-6              | 7.80 (.305)              | 8.40 (.330)          | 19129-0008  | 19141-0080 | 19.90 (.784)          | 19131-0006                   | 19131-0005 | 27.30 (1.075)         |           |
|                                      | 8                | 7.80 (.305)              | 8.40 (.330)          | 19129-0007  | 19129-0006 | 19.90 (.784)          | 19131-0004                   | 19131-0003 | 27.30 (1.075)         |           |
|                                      | 10               | 7.80 (.305)              | 8.40 (.330)          | 19129-0005  |            | 19.90 (.784)          | 19131-0002                   | 19131-0001 | 27.30 (1.075)         |           |



| Wire Range<br>AWG (mm²) | Stud Size<br>(S) | Minimum Clearance<br>(C) | Maximum Width<br>(W) | Avikrimp™ – Nylon Insulation |            |                       | Lead-free |
|-------------------------|------------------|--------------------------|----------------------|------------------------------|------------|-----------------------|-----------|
|                         |                  |                          |                      | Order No.                    |            | Maximum Length<br>(L) |           |
|                         |                  |                          |                      | Loose Piece                  | Mylar Tape |                       |           |
| 18-22 (0.96-0.38)       | 1-2              | 4.60 (.183)              | 5.00 (.192)          | 19139-0001                   | 19139-0002 | 18.40 (.727)          | Yes       |
|                         | 3-4              | 4.60 (.183)              | 5.00 (.192)          | 19139-0003                   | 19139-0004 | 18.40 (.727)          |           |
|                         |                  | 5.30 (.207)              | 6.50 (.255)          | 19139-0016                   | 19139-0017 | 19.90 (.785)          |           |
|                         | 5-6              | 5.30 (.207)              | 6.50 (.255)          | 19139-0018                   | 19139-0019 | 19.90 (.785)          |           |
|                         |                  | 7.70 (.305)              | 6.50 (.260)          | 19139-0006                   | 19139-0007 | 22.70 (.895)          |           |
|                         |                  | 5.30 (.207)              | 7.60 (.301)          | 19139-0011                   | 19139-0012 | 19.90 (.785)          |           |
|                         | 8                | 5.30 (.207)              | 7.60 (.301)          | 19139-0013                   | 19139-0014 | 19.90 (.785)          |           |
| 14-16 (1.94-3.09)       | 10               | 5.30 (.207)              | 7.60 (.301)          | 19139-0015                   |            | 19.90 (.785)          |           |
|                         | 3-4              | 5.30 (.209)              | 6.40 (.255)          | 19139-0038                   |            | 20.30 (.799)          |           |
|                         | 5-6              | 5.40 (.211)              | 7.70 (.305)          | 19139-0042                   | 19139-0043 | 20.20 (.796)          |           |
|                         | 8                | 5.40 (.211)              | 7.70 (.305)          | 19139-0044                   |            | 20.20 (.796)          |           |
|                         | 10               | 5.40 (.211)              | 7.70 (.305)          | 19139-0045                   | 19193-0068 | 20.20 (.796)          |           |
| 10-12 (5.01-3.09)       | 5-6              | 7.80 (.305)              | 8.40 (.330)          | 19198-0039                   | 19198-0040 | 27.70 (1.090)         |           |
|                         | 8                | 7.80 (.305)              | 8.40 (.330)          | 19139-0060                   | 19198-0042 | 27.70 (1.090)         |           |
|                         | 10               | 7.80 (.305)              | 8.40 (.330)          | 19139-0061                   | 19198-0043 | 27.70 (1.090)         |           |

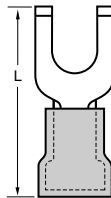
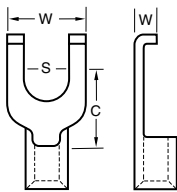
# Flanged Spade Terminals

Physical  
Material: Brass or Steel



| Wire Range<br>AWG (mm²) | Stud Size<br>(S) | Minimum<br>Clearance<br>(C) | Maximum<br>Width<br>(W) | Krimptite™  |            |                       | InsulKrimp™ |            |                       | Lead-free |
|-------------------------|------------------|-----------------------------|-------------------------|-------------|------------|-----------------------|-------------|------------|-----------------------|-----------|
|                         |                  |                             |                         | Order No.   |            | Maximum Length<br>(L) | Order No.   |            | Maximum Length<br>(L) |           |
|                         |                  |                             |                         | Loose Piece | Mylar Tape |                       | Loose Piece | Mylar Tape |                       |           |
| 18-22 (0.96-0.38)       | 6                | 5.3 (.207)                  | 7.6 (.301)              | 19118-0021  | 19118-0022 | 14.1 (.556)           | 19121-0005  | 19121-0006 | 19.8 (.781)           | Yes       |
|                         | 8                | 5.3 (.207)                  | 7.6 (.301)              | 19118-0023  | 19118-0024 | 14.1 (.556)           | 19121-0007  | 19121-0008 | 19.8 (.781)           |           |
|                         | 10               | 5.3 (.207)                  | 7.6 (.301)              | 19118-0025  | 19118-0099 | 14.1 (.556)           | 19121-0009  | 19121-0010 | 19.8 (.781)           |           |
| 14-16 (1.94-1.23)       | 6                | 5.3 (.209)                  | 7.6 (.301)              | 19118-0054  | 19118-0055 | 14.4 (.570)           | 19121-0026  | 19121-0027 | 20.2 (.795)           |           |
|                         | 8                | 5.3 (.209)                  | 7.6 (.301)              | 19118-0056  | 19118-0057 | 14.4 (.570)           | 19121-0028  | 19121-0029 | 20.2 (.795)           |           |
|                         | 10               | 5.3 (.209)                  | 7.6 (.301)              | 19118-0058  | 19118-0059 | 14.4 (.570)           | 19121-0030  | 19121-0031 | 20.2 (.795)           |           |
| 10-12 (5.01-3.09)       | 6                | 7.8 (.305)                  | 8.4 (.330)              |             |            |                       | 19121-0046  | 19121-0085 | 27.3 (1.075)          |           |
|                         |                  | 7.7 (.301)                  | 9.8 (.385)              | 19118-0084  | 19118-0130 | 19.6 (.770)           | 19121-0051  | 19121-0052 | 27.0 (1.061)          |           |
|                         | 8                | 7.8 (.305)                  | 8.4 (.330)              | 19118-0080  | 19118-0081 | 19.9 (.784)           | 19121-0047  | 19121-0048 | 27.3 (1.075)          |           |
|                         |                  | 7.7 (.301)                  | 9.8 (.385)              | 19118-0086  | 19118-0087 | 19.6 (.770)           | 19121-0053  | 19121-0054 | 1.061 (27.0)          |           |
|                         | 10               | 7.8 (.305)                  | 8.4 (.330)              | 19118-0082  | 19118-0083 | 19.9 (.784)           | 19121-0049  | 19121-0050 | 27.3 (1.075)          |           |
|                         |                  | 7.7 (.301)                  | 9.8 (.385)              | 19118-0088  | 19118-0090 | 19.6 (.770)           | 19121-0056  | 19121-0057 | 27.0 (1.061)          |           |
|                         |                  |                             |                         |             |            |                       |             |            |                       |           |

Physical  
Material: Copper



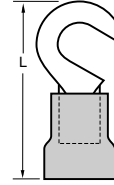
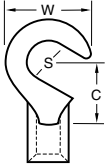
| Wire Range<br>AWG (mm²) | Stud Size<br>(S) | Minimum<br>Clearance<br>(C) | Maximum<br>Width<br>(W) | Avikrimp™   |            |                          | Lead-free |
|-------------------------|------------------|-----------------------------|-------------------------|-------------|------------|--------------------------|-----------|
|                         |                  |                             |                         | Order No.   |            | Maximum<br>Length<br>(L) |           |
|                         |                  |                             |                         | Loose Piece | Mylar Tape |                          |           |
| 22-18 (0.96-0.38)       | 5-6              | 5.3 (.207)                  | 7.6 (.301)              | 19127-0007  | 19127-0009 | 19.8 (.781)              | Yes       |
|                         | 8                | 5.3 (.207)                  | 7.6 (.301)              | 19127-0010  | 19127-0011 | 19.8 (.781)              |           |
|                         | 10               | 5.3 (.207)                  | 7.6 (.301)              | 19127-0012  | 19127-0013 | 19.8 (.781)              |           |
| 14-16 (1.94-1.23)       | 5-6              | 5.3 (.209)                  | 7.6 (.301)              | 19127-0039  | 19127-0041 | 20.6 (.810)              |           |
|                         | 8                | 5.3 (.209)                  | 7.6 (.301)              | 19127-0042  | 19127-0044 | 20.6 (.810)              |           |
|                         | 10               | 5.3 (.209)                  | 7.6 (.301)              | 19127-0099  | 19127-0045 | 20.6 (.810)              |           |
| 10-12 (5.01-3.09)       | 8                | 7.7 (.301)                  | 9.8 (.385)              | 19127-0086  | 19127-0087 | 27.3 (1.076)             |           |
|                         | 10               | 7.7 (.301)                  | 9.8 (.385)              | 19127-0089  | 19127-0090 | 27.3 (1.076)             |           |

# Hook Tongue Terminals

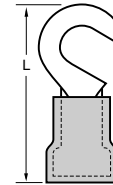


**Physical**  
Material: Copper

Solderless Terminals



| Wire Range<br>AWG (mm²) | Stud Size<br>(S) | Minimum<br>Clearance<br>(C) | Maximum<br>Width<br>(W) | Krimptite™  |            |                       | InsulKrimp™ |            |                       | Lead-free |
|-------------------------|------------------|-----------------------------|-------------------------|-------------|------------|-----------------------|-------------|------------|-----------------------|-----------|
|                         |                  |                             |                         | Order No.   |            | Maximum Length<br>(L) | Order No.   |            | Maximum Length<br>(L) |           |
|                         |                  |                             |                         | Loose Piece | Mylar Tape |                       | Loose Piece | Mylar Tape |                       |           |
| 14-16 (1.94-1.23)       | 5-6              | 6.9 (.271)                  | 9.1 (.360)              | 19178-0008  | 19178-0009 | 16.8 (.660)           | 19179-0008  | 19179-0009 | 22.5 (.885)           | Yes       |
|                         | 8                |                             |                         | 19178-0010  | 19178-0011 | 16.8 (.660)           | 19179-0010  | 19179-0011 | 22.5 (.885)           |           |
|                         | 10               |                             |                         | 19178-0012  | 19178-0013 | 16.8 (.660)           | 19179-0012  | 19179-0013 | 22.5 (.885)           |           |
| 10-12 (5.01-3.09)       | 5-6              | 7.7 (.303)                  | 9.7 (.382)              |             |            |                       | 19179-0014  | 19179-0015 | 27.3 (1.074)          |           |
|                         | 10               |                             |                         | 19178-0018  | 19178-0019 | 19.9 (.783)           | 19179-0019  | 19179-0020 | 27.3 (1.074)          |           |



| Wire Range<br>AWG (mm²) | Stud Size<br>(S) | Minimum<br>Clearance<br>(C) | Maximum<br>Width<br>(W) | Avikrimp™   |            |                                 |                          | Lead-free |
|-------------------------|------------------|-----------------------------|-------------------------|-------------|------------|---------------------------------|--------------------------|-----------|
|                         |                  |                             |                         | Order No.   |            |                                 | Maximum<br>Length<br>(L) |           |
|                         |                  |                             |                         | Loose Piece | Mylar Tape | Expanded Flare on<br>Mylar Tape |                          |           |
| 14-16 (1.94-1.23)       | 8                | 6.9 (.271)                  | 9.1 (.360)              | 19183-0009  | 19183-0010 |                                 | 22.9 (.900)              | Yes       |
|                         | 10               | 6.9 (.271)                  | 9.1 (.360)              | 19183-0011  | 19183-0012 |                                 | 22.9 (.900)              |           |
| 10-12 (5.01-3.09)       | 10               | 7.7 (.303)                  | 9.7 (.382)              | 19183-0019  | 19183-0020 | 19183-0021                      | 27.7 (1.089)             |           |

# Copper Lugs 250 MCM to 8 Wire Range Heavy Duty for 600V Applications

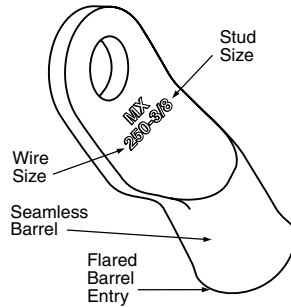


## Features and Benefits

- Crimps in industry standard tooling
- Seamless barrel design
- Can be easily soldered or crimped
- Flared barrel entry for easy wire insertion
- AWG wire size identification on barrel
- Made of CDA-110 Copper stock offering 100% conductivity

## Physical

Material: Copper  
Plating: Tin

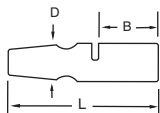


A

Solderless Terminals

| Wire Range<br>AWG (mm <sup>2</sup> ) | Stud      | Order No.  |            | Dimension    |               | Wire Entry<br>Inside Diameter (ID) | Lead-free |
|--------------------------------------|-----------|------------|------------|--------------|---------------|------------------------------------|-----------|
|                                      | Size      | Plated     | Unplated   | Length       | Width         |                                    |           |
| 8<br>(7.96)                          | 10        | 19221-0223 | 19221-0408 | 1.19 (30.15) | 11.13 (0.438) | 4.70 (0.185)                       | Yes       |
|                                      | 1/4       | 19221-0224 | 19221-0409 | 1.19 (30.15) | 11.13 (0.438) | 4.70 (0.185)                       |           |
|                                      | 5/16      | 19221-0225 | 19221-0411 | 1.19 (30.15) | 11.13 (0.438) | 4.70 (0.185)                       |           |
|                                      | 5/16 Wide | 19221-0483 | 19221-0482 | 1.31 (33.35) | 15.09 (0.594) | 4.70 (0.185)                       |           |
|                                      | 3/8 Wide  | 19221-0226 | 19221-0410 | 1.31 (33.35) | 15.09 (0.594) | 4.70 (0.185)                       |           |
|                                      | 3/8 Xwide | 19221-0484 | 19221-0481 | 1.47 (37.31) | 9.46 (0.766)  | 4.70 (0.185)                       |           |
| 6<br>(13.48)                         | 1/2       | 19221-0414 | 19221-0415 | 1.47 (37.31) | 9.46 (0.766)  | 4.70 (0.185)                       |           |
|                                      | 10        | 19221-0424 | 19221-0425 | 1.28 (32.54) | 11.13 (0.438) | 5.89 (0.232)                       |           |
|                                      | 1/4       | 19221-0495 | 19221-0494 | 1.28 (32.54) | 11.13 (0.438) | 5.89 (0.232)                       |           |
|                                      | 1/4 Wide  | 19221-0227 | 19221-0406 | 1.41 (35.72) | 15.09 (0.594) | 5.89 (0.232)                       |           |
|                                      | 5/16      | 19221-0492 | 19221-0493 | 1.28 (32.54) | 11.13 (0.438) | 5.89 (0.232)                       |           |
|                                      | 5/16 Wide | 19221-0228 | 19221-0407 | 1.41 (35.72) | 15.09 (0.594) | 5.89 (0.232)                       |           |
| 4<br>(21.28)                         | 3/8 Wide  | 19221-0229 | 19221-0384 | 1.41 (35.72) | 15.09 (0.594) | 5.89 (0.232)                       |           |
|                                      | 1/2       | 19221-0416 | 19221-0417 | 1.56 (39.71) | 19.46 (0.766) | 5.89 (0.232)                       |           |
|                                      | 10        | 19221-0452 | 19221-0451 | 1.50 (38.10) | 13.49 (0.531) | 7.26 (0.286)                       |           |
|                                      | 1/4       | 19221-0230 | 19221-0404 | 1.50 (38.10) | 13.49 (0.531) | 7.26 (0.286)                       |           |
|                                      | 5/16      | 19221-0231 | 19221-0405 | 1.50 (38.10) | 13.49 (0.531) | 7.26 (0.286)                       |           |
|                                      | 5/16 Wide | 19221-0460 | 19221-0461 | 1.53 (38.89) | 15.88 (0.628) | 7.26 (0.286)                       |           |
| 2<br>(33.70)                         | 3/8       | 19221-0232 | 19221-0383 | 1.50 (38.10) | 13.49 (0.531) | 7.26 (0.286)                       |           |
|                                      | 3/8 Wide  | 19221-0456 | 19221-0458 | 1.53 (38.89) | 15.88 (0.628) | 7.26 (0.286)                       |           |
|                                      | 1/2 Xwide | 19221-0454 | 19221-0453 | 1.69 (42.88) | 19.46 (0.766) | 7.26 (0.286)                       |           |
|                                      | 1/4       | 19221-0418 | 19221-0419 | 1.62 (41.28) | 15.88 (0.625) | 8.53 (0.336)                       |           |
|                                      | 5/16      | 19221-0233 | 19221-0400 | 1.62 (41.28) | 15.88 (0.625) | 8.53 (0.336)                       |           |
|                                      | 3/8       | 19221-0235 | 19221-0380 | 1.62 (41.28) | 15.88 (0.625) | 8.53 (0.336)                       |           |
| 1                                    | 1/2 Wide  | 19221-0236 | 19221-0399 | 1.75 (44.45) | 19.05 (0.750) | 8.53 (0.336)                       |           |
|                                      | 1/4       | 19221-0420 | 19221-0421 | 1.72 (43.64) | 16.66 (0.656) | 9.14 (0.360)                       |           |
|                                      | 5/16      | 19221-0237 | 19221-0396 | 1.72 (43.64) | 16.66 (0.656) | 9.14 (0.360)                       |           |
|                                      | 3/8       | 19221-0238 | 19221-0378 | 1.72 (43.64) | 16.66 (0.656) | 9.14 (0.360)                       |           |
| 1/0<br>(52.95)                       | 1/2 Wide  | 19221-0239 | 19221-0395 | 1.84 (46.48) | 19.05 (0.750) | 9.14 (0.360)                       |           |
|                                      | 1/4       | 19221-0422 | 19221-0423 | 1.84 (46.48) | 18.24 (0.718) | 10.16 (0.400)                      |           |
|                                      | 5/16      | 19221-0240 | 19221-0394 | 1.84 (46.48) | 18.24 (0.718) | 10.16 (0.400)                      |           |
|                                      | 3/8       | 19221-0241 | 19221-0377 | 1.84 (46.48) | 18.24 (0.718) | 10.16 (0.400)                      |           |
| 2/0<br>(67.39)                       | 1/2       | 19221-0242 | 19221-0393 | 1.84 (46.48) | 18.24 (0.718) | 10.16 (0.400)                      |           |
|                                      | 1/4       | 19221-0234 | 19221-0249 | 2.06 (52.37) | 20.65 (0.813) | 11.71 (0.461)                      |           |
|                                      | 5/16      | 19221-0243 | 19221-0398 | 2.06 (52.37) | 20.65 (0.813) | 11.71 (0.461)                      |           |
|                                      | 3/8       | 19221-0244 | 19221-0379 | 2.06 (52.37) | 20.65 (0.813) | 11.71 (0.461)                      |           |
| 3/0<br>(84.72)                       | 1/2       | 19221-0245 | 19221-0397 | 2.06 (52.37) | 20.65 (0.813) | 11.71 (0.461)                      |           |
|                                      | 5/16      | 19221-0246 | 19221-0402 | 2.16 (54.76) | 23.01 (0.906) | 12.98 (0.511)                      |           |
|                                      | 3/8       | 19221-0247 | 19221-0381 | 2.16 (54.76) | 23.01 (0.906) | 12.98 (0.511)                      |           |
|                                      | 1/2       | 19221-0248 | 19221-0401 | 2.16 (54.76) | 23.01 (0.906) | 12.98 (0.511)                      |           |
| 4/0<br>(107.76)                      | 5/16      | 19221-0412 | 19221-0413 | 2.34 (59.54) | 24.99 (0.984) | 14.20 (0.559)                      |           |
|                                      | 3/8       | 19221-0250 | 19221-0382 | 2.34 (59.54) | 24.99 (0.984) | 14.20 (0.559)                      |           |
|                                      | 1/2       | 19221-0251 | 19221-0403 | 2.34 (59.54) | 24.99 (0.984) | 14.20 (0.559)                      |           |
|                                      | 5/16 Weld | 19221-0503 | 19221-0502 | 2.69 (68.28) | 27.78 (1.094) | 15.88 (0.625)                      |           |
|                                      | 3/8 Weld  | 19221-0371 | 19221-0374 | 2.69 (68.28) | 27.78 (1.094) | 15.88 (0.625)                      |           |
|                                      | 1/2 Weld  | 19221-0372 | 19221-0375 | 2.69 (68.28) | 27.78 (1.094) | 15.88 (0.625)                      |           |
| 250 MCM                              | 3/8       | 19221-0447 | 19221-0446 | 2.66 (67.46) | 30.56 (1.203) | 17.40 (0.685)                      |           |

## Snap Plugs



### Features and Benefits

- Quality one-piece design
- Most economical style and has the greatest variety of uses where special features are not required
- Designed to SAE specifications
- Can be connected and disconnected repeatedly

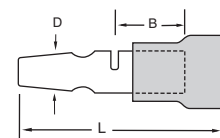
### Physical

Material: Copper Alloy  
Plating: Tin

### Krimptite™

| Wire Range AWG (mm <sup>2</sup> ) | Loose Piece Order No. | Dimension         |              |                 | Lead-free |
|-----------------------------------|-----------------------|-------------------|--------------|-----------------|-----------|
|                                   |                       | Barrel Length (B) | Diameter (D) | Max. Length (L) |           |
| 18-22 (0.96-0.38)                 | 19033-0001            | 6.45 (.254)       | 4.57 (.180)  | 19.2 (.754)     | Yes       |
|                                   | 19033-0003            | 6.45 (.254)       | 3.96 (.156)  | 17.6 (.694)     |           |
| 14-16 (1.94-1.23)                 | 19033-0005            | 6.45 (.254)       | 4.57 (.180)  | 19.2 (.754)     |           |
|                                   | 19033-0007            | 6.45 (.254)       | 3.96 (.156)  | 17.6 (.694)     |           |

Note: For open barrel strip products, please contact Molex.



### Features and Benefits

- Funnel entrance into the electrical barrel eliminates wire strand fold back and increases crimping rates
- Features a PVC sleeve to protect against vibration damage by preventing wire flex at the crimp point
- Designed to SAE specifications
- Can be connected and disconnected repeatedly

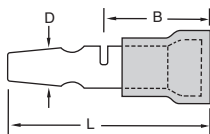
### Physical

Material: Terminal—Copper Alloy  
Insulation—PVC  
Plating: Terminal—Tin

### InsulKrimp™

| Wire Range AWG (mm <sup>2</sup> ) | Loose Piece Order No. | Dimension         |              |                 | Max. Wire Insul. Dia. | Lead-free |
|-----------------------------------|-----------------------|-------------------|--------------|-----------------|-----------------------|-----------|
|                                   |                       | Barrel Length (B) | Diameter (D) | Max. Length (L) |                       |           |
| 18-22 (0.96-0.38)                 | 19034-0002            | 6.45 (.254)       | 4.57 (.180)  | 24.10 (.950)    | 3.60 (.140)           | Yes       |
|                                   | 19034-0005            | 6.45 (.254)       | 3.96 (.156)  | 22.60 (.890)    | 3.60 (.140)           |           |
| 14-16 (1.94-1.23)                 | 19034-0007            | 6.45 (.254)       | 4.57 (.180)  | 24.10 (.950)    | 4.40 (.175)           |           |
|                                   | 19034-0009            | 6.45 (.254)       | 3.96 (.156)  | 22.60 (.890)    | 4.40 (.175)           |           |

Note: For open barrel strip products, please contact Molex.



### Features and Benefits

- Avikrimp provides a metal conductor sleeve for superior strain relief
- Fulfills the double crimp (support) requirements of VDE and others DIN Specifications
- Designed to SAE specifications
- Can be connected and disconnected repeatedly

### Physical

Material: Terminal—Copper Alloy  
Ferrule—Brass  
Insulation—Nylon  
Plating: Terminal—Tin  
Ferrule—Tin

### Avikrimp™

#### Molded Nylon Insulation

| Wire Range AWG (mm <sup>2</sup> ) | Order No.   |            | Dimension         |              |                 | Max. Wire Insulation Dia. | Lead-free |
|-----------------------------------|-------------|------------|-------------------|--------------|-----------------|---------------------------|-----------|
|                                   | Loose Piece | Mylar Tape | Barrel Length (B) | Diameter (D) | Max. Length (L) |                           |           |
| 18-22 (0.96-0.38)                 | 19035-0001  | 19035-0002 | 6.45 (.254)       | 4.57 (.180)  | 24.10 (.948)    | 3.60 (.140)               | Yes       |
|                                   | 19035-0003  | 19035-0004 | 6.45 (.254)       | 3.96 (.156)  | 22.60 (.888)    | 3.60 (.140)               |           |
| 14-16 (1.94-1.23)                 | 19035-0005  | 19035-0008 | 6.45 (.254)       | 4.57 (.180)  | 24.10 (.948)    | 4.30 (.170)               |           |
|                                   | 19035-0009  | 19035-0012 | 6.45 (.254)       | 3.96 (.156)  | 22.60 (.888)    | 4.30 (.170)               |           |

Note: For open barrel strip products, please contact Molex.

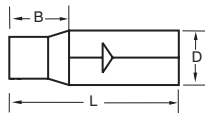
### Avikrimp™

#### Extruded Nylon Insulation

| Wire Range AWG (mm <sup>2</sup> ) | Order No.   |            | Dimension         |              |                 | Max. Wire Insulation Dia. | Lead-free |
|-----------------------------------|-------------|------------|-------------------|--------------|-----------------|---------------------------|-----------|
|                                   | Loose Piece | Mylar Tape | Barrel Length (B) | Diameter (D) | Max. Length (L) |                           |           |
| 18-22 (0.96-0.38)                 | 19036-0001  | 19036-0002 | 6.45 (.254)       | 4.57 (.180)  | 24.30 (.957)    | 3.60 (.140)               | Yes       |
|                                   | 19036-0003  | 19036-0005 | 6.45 (.254)       | 3.96 (.156)  | 22.80 (.897)    | 3.60 (.140)               |           |
| 14-16 (1.94-1.23)                 | 19036-0006  | 19036-0007 | 6.45 (.254)       | 4.57 (.180)  | 24.30 (.957)    | 4.30 (.140)               |           |
|                                   | 19036-0008  | 19036-0009 | 6.45 (.254)       | 3.96 (.156)  | 22.80 (.897)    | 4.30 (.140)               |           |

Note: For open barrel strip products, please contact Molex.

# Snap Receptacles



## Features and Benefits

- Quality one-piece design
- Most economical style and has the greatest variety of uses where special features are not required

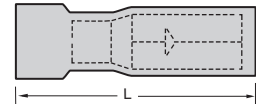
## Physical

Material: Brass  
Plating: Tin

## Krimptite™

| Wire Range AWG (mm <sup>2</sup> ) | Loose Piece Order No. | Dimension         |                        |                    | Lead-free |
|-----------------------------------|-----------------------|-------------------|------------------------|--------------------|-----------|
|                                   |                       | Barrel Length (B) | Snap Plug Diameter (D) | Maximum Length (L) |           |
| 18-22 (0.96-0.38)                 | 19037-0002            | 5.10 (.200)       | 3.90 (.156)            | 16.20 (.640)       | Yes       |
| 14-16 (1.94-1.23)                 | 19037-0004            | 5.10 (.200)       |                        | 16.20 (.640)       |           |
| 18-22                             | 19037-0015            | 5.10 (.200)       | 4.60 (.180)            | 17.80 (.700)       |           |
| 14-16                             | 19037-0006            | 5.10 (.200)       |                        | 17.80 (.700)       |           |

Note: For open barrel strip products, please contact Molex.



## Features and Benefits

- Funnel entrance into the electrical barrel eliminates wire strand fold back and increases crimping rates
- Features a PVC sleeve to protect against vibration damage by preventing wire flex at the crimp point

## Physical

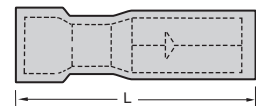
Material: Brass  
Plating: Tin

## InsulKrimp™

### Insulated with Funnel Entry

| Insulated with Funnel Entry |                |                  |                   |                        |                    |                              |           |
|-----------------------------|----------------|------------------|-------------------|------------------------|--------------------|------------------------------|-----------|
| Wire Range AWG (mm²)        | Order No.      |                  | Dimension         |                        |                    | Maximum Wire Insulation Dia. | Lead-free |
|                             | PVC Insulation | Nylon Insulation | Barrel Length (B) | Snap Plug Diameter (D) | Maximum Length (L) |                              |           |
| 18-22 (0.96-0.38)           | 19038-0037     |                  | 10.60 (.420)      | 3.90 (.156)            | 25.60 (1.010)      | 3.50 (.140)                  | Yes       |
| 14-16 (1.94-1.23)           | 19038-0007     | 19038-0009       | 10.60 (.420)      |                        | 25.60 (1.010)      | 4.30 (.170)                  |           |
| 18-22 (0.96-0.38)           | 19038-0004     | 19038-0006       | 10.60 (.420)      | 4.60 (.180)            | 25.60 (1.010)      | 3.50 (.140)                  |           |
| 14-16 (1.94-1.23)           | 19038-0011     | 19038-0013       | 10.60 (.420)      |                        | 25.60 (1.010)      | 4.30 (.170)                  |           |

Note: For open barrel strip products, please contact Molex.



## Features and Benefits

- Avikrimp provides a metal conductor support sleeve for superior strain relief
- Fulfills the double crimp (support) requirements of VDE and other DIN specifications

## Physical

Material: Brass  
Plating: Tin

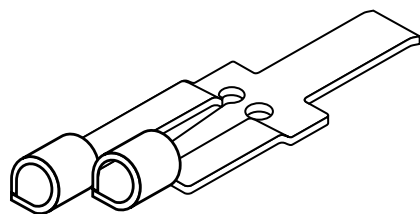
## Avikrimp™

### Insulated with Vibration Support

| Insulated with Vibration Support  |                |                  |                          |                   |                        |                    |                              |           |
|-----------------------------------|----------------|------------------|--------------------------|-------------------|------------------------|--------------------|------------------------------|-----------|
| Wire Range AWG (mm <sup>2</sup> ) | Order No.      |                  |                          | Dimension         |                        |                    | Maximum Wire Insulation Dia. | Lead-free |
|                                   | PVC Insulation | Nylon Insulation | Nylon Insulation on Tape | Barrel Length (B) | Snap Plug Diameter (D) | Maximum Length (L) |                              |           |
| 18-22 (0.96-0.38)                 | 19039-0001     | 19039-0002       | 19039-0015               | 10.60 (.420)      | 3.90 (.156)            | 25.60 (1.010)      | 3.20 (.125)                  | Yes       |
| 14-16 (1.94-1.23)                 | 19039-0006     | 19039-0007       | 19039-0016               | 10.60 (.420)      |                        | 25.60 (1.010)      | 3.80 (.150)                  |           |
| 18-22 (0.96-0.38)                 | 19039-0004     | 19039-0005       | 19039-0017               | 10.60 (.420)      | 4.60 (.180)            | 25.60 (1.010)      | 3.20 (.125)                  |           |
| 14-16 (1.94-1.23)                 | 19039-0009     | 19039-0010       | 19039-0018               | 10.60 (.420)      |                        | 25.60 (1.010)      | 3.80 (.150)                  |           |

Note: For open barrel strip products, please contact Molex.

# Vital Relay Terminals



## Features and Benefits

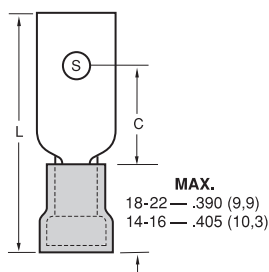
- Made from Phosphor Bronze material to provide durability and maximum conductivity.
- Brazed seams add strength to each barrel to prevent opening under conditions of stress or wire pull.
- Silver plated to provide corrosion resistance, solderability, and excellent conductivity.
- Manufactured to Exceed AAR Specifications.
- High quality Relay Terminals to fit GRS/Safetran Relay Bases

## Physical

Material: Phosphor Bronze  
Plating: Silver

| Wire Range | Order No.  | Maximum Length | Maximum Terminal Width | Maximum Contact Width | Barrel Inside Diameter | Maximum Locking Tab Width | Lead-free |
|------------|------------|----------------|------------------------|-----------------------|------------------------|---------------------------|-----------|
| 16-20 AWG  | 19702-4101 | 41.28 (1.625)  | 11.68 (.460)           | 5.84 (.230)           | 3.30 (.130)            | 4.32 (.170)               | Yes       |
| 10-14 AWG  | 19702-4001 | 42.42 (1.670)  |                        |                       |                        |                           |           |

## Mil Spec Approved Product



Molex solderless terminals and splices have long contributed to our nation's defense as high-quality components in a wide variety of weapons systems and defense equipment.

MIL-T-7928 is the specification most commonly used by the various government agencies, military prime and ordinance contractors and many original-equipment-manufacturers (OEM) as well as the aircraft and aerospace industries. This specification encompasses and governs several Mil Spec standards: MS/AS-20659, Uninsulated Ring Terminals; MS/AS-25036, Insulated Ring Terminals; and MS/AS-17143, Insulated Rectangular Terminals. The following quick-reference charts indicate the Molex Mil Spec terminals and splices that are manufactured to meet the above specifications.

## QUALIFIED PRODUCTS LIST (QPL) APPROVALS

**Class 1** approved terminals and splices conform to all dimensional requirements and meet all performance standards of the Mil Spec when crimped with QPL-approved crimping tools.

**Class 2** approved terminals and splices meet all performance standards of the Mil Specs when crimped with the manufacturer's QPL-recognized crimping tools.

**Types I and II** further classify Mil Spec terminals and splices as noninsulated and insulated. Type I indicates "uninsulated" while Type II refers to "insulated" terminals and splices. Contact your Molex customer service representative for additional information and military cross-references.

## Features and Benefits

- Rectangular tongue insulated terminals are covered by MS/AS-17143 (ships).

## MS/AS-17143 Type II Insulated

| Mil-Spec Dash No. | Order No.  | Class   | Lead-free |
|-------------------|------------|---------|-----------|
| -1                | 19095-0022 | 1 and 2 | Yes       |
| -2                | 19095-0133 |         |           |
| -4                | 19095-0024 |         |           |
| -5                | 19095-0134 |         |           |
| -7                | 19095-0026 |         |           |
| -8                | 19095-0074 |         |           |
| -10               | 19095-0028 |         |           |

| Mil-Spec Dash No. | Order No.  | Class   | Lead-free |
|-------------------|------------|---------|-----------|
| -11               | 19095-0076 | 1 and 2 | Yes       |
| -13               | 19095-0030 |         |           |
| -14               | 19095-0136 |         |           |
| -16               | 19095-0032 |         |           |
| -17               | 19095-0137 |         |           |
| -19               | 19095-0034 |         |           |
| -20               | 19095-0139 |         |           |

# Mil Spec Ring Tongue Terminals

A

Solderless Terminals

## MS/AS-20659 Type I Noninsulated

| MS/AS-20659 Dash No. | Order No.  | Class   | Lead-free | MS/AS-20659 Dash No. | Order No.  | Class | Lead-free | MS/AS-20659 Dash No. | Order No.  | Class | Lead-free |
|----------------------|------------|---------|-----------|----------------------|------------|-------|-----------|----------------------|------------|-------|-----------|
| -101                 | 19072-0010 | 2       | Yes       | -122                 | 19193-0354 | 2     | Yes       | -142                 | 19193-0179 | 2     | Yes       |
| -102                 | 19072-0016 |         |           | -123                 | 19193-0375 |       |           | -143                 | 19193-0226 |       |           |
| -103                 | 19072-0069 |         |           | -124                 | 19193-0372 |       |           | -144                 | 19193-0273 |       |           |
| -104                 | 19072-0073 |         |           | -125                 |            |       |           | -145                 | 19193-0281 |       |           |
| -105                 | 19193-0109 |         |           | -126                 | 19072-0057 |       |           | -146                 | 19193-0303 |       |           |
| -106                 | 19193-0120 | 1 and 2 |           | -127                 | 19072-0048 | -147  |           | 19193-0309           |            |       |           |
| -107                 | 19193-0202 |         |           | -128                 | 19193-0137 | -148  |           | 19193-0302           |            |       |           |
| -108                 | 19193-0171 |         |           | -129                 | 19193-0167 | -151  |           | 19193-0333           |            |       |           |
| -109                 | 19193-0248 |         |           | -130                 | 19193-0245 | -152  |           | 19193-0329           |            |       |           |
| -110                 | 19193-0216 |         |           | -131                 | 19193-0219 | -153  |           | 19193-0342           |            |       |           |
| -111                 | 19193-0275 | 2       |           | -132                 | 19193-0267 | -154  |           | 19193-0348           |            |       |           |
| -112                 | 19193-0264 |         |           | -133                 | 19193-0296 | -155  |           | 19193-0360           |            |       |           |
| -113                 | 19193-0305 |         |           | -135                 | 19193-0325 | -159  |           |                      |            |       |           |
| -114                 | 19193-0307 |         |           | -136                 | 19193-0341 | -161  |           |                      |            |       |           |
| -117                 | 19193-0330 |         |           | -137                 |            | -163  |           | 19072-0051           |            |       |           |
| -118                 | 19193-0331 |         |           | -138                 | 19072-0008 | -165  |           | 19193-0128           |            |       |           |
| -119                 | 19193-0346 |         |           | -139                 | 19072-0055 | -166  |           | 19193-0094           |            |       |           |
| -120                 | 19193-0345 |         |           | -140                 | 19193-0200 |       |           |                      |            |       |           |
| -121                 | 19193-0358 |         |           | -141                 | 19193-0152 |       |           |                      |            |       |           |

## MS/AS-25036 Type II Insulated

| MS/AS-25036<br>Dash No. | Order No.  | Class   | Lead-free |
|-------------------------|------------|---------|-----------|
| -101                    | 19073-0009 | 1 and 2 | Yes       |
| -102                    | 19073-0038 |         |           |
| -103                    | 19073-0017 |         |           |
| -104                    | 19073-0027 |         |           |
| -105                    | 19073-0032 |         |           |
| -106                    | 19073-0067 |         |           |
| -107                    | 19073-0083 |         |           |
| -108                    | 19073-0087 |         |           |
| -109                    | 19073-0079 |         |           |
| -110                    | 19073-0059 |         |           |
| -111                    | 19073-0160 |         |           |
| -112                    | 19073-0170 |         |           |
| -113                    | 19073-0200 |         |           |
| -114                    | 19073-0236 |         |           |
| -115                    | 19067-0006 | 2       |           |
| -116                    | 19067-0008 |         |           |
| -117                    | 19067-0025 |         |           |

| MS/AS-25036<br>Dash No. | Order No.  | Class | Lead-free |
|-------------------------|------------|-------|-----------|
| -118                    | 19067-0022 | 2     | Yes       |
| -119                    | 19067-0069 |       |           |
| -120                    | 19067-0071 |       |           |
| -121                    | 19067-0055 |       |           |
| -122                    | 19067-0052 |       |           |
| -123                    | 19067-0082 |       |           |
| -124                    | 19067-0079 |       |           |
| -125                    | 19067-0078 |       |           |
| -126                    | 19067-0096 |       |           |
| -127                    | 19067-0097 |       |           |
| -128                    | 19067-0090 |       |           |
| -132                    | 19067-0103 |       |           |
| -133                    | 19067-0359 |       |           |
| -134                    | 19067-0315 |       |           |
| -135                    | 19067-0112 |       |           |
| -136                    | 19067-0111 |       |           |
| -138                    | 19067-0118 |       |           |

| MS/AS-25036<br>Dash No. | Order No.  | Class   | Lead-free |
|-------------------------|------------|---------|-----------|
| -139                    | 19067-0117 | 2       | Yes       |
| -141                    |            |         |           |
| -143                    | 19073-0253 |         |           |
| -144                    | 19073-0248 |         |           |
| -148                    | 19073-0007 | 1 and 2 |           |
| -149                    | 19073-0013 |         |           |
| -150                    | 19073-0024 |         |           |
| -152                    | 19073-0065 |         |           |
| -153                    | 19073-0085 |         |           |
| -154                    | 19073-0076 |         |           |
| -156                    | 19073-0165 |         |           |
| -157                    | 19073-0188 |         |           |
| -159                    | 19073-0005 |         |           |

## Wire Pin Terminals

Wire Pin Terminals offer quick and easy connections in applications where set screws or clamps are used to make electrical contact with the wire. Wire Pins simplify the insertion of stranded wire into European style terminal blocks and other components, by preventing wire strand foldback, assuring a proper electrical contact and a stronger connection than just wire alone.

### Features and Benefits

- Fits all popular pin-type (European) terminal blocks
- Available in wire sizes 10 to 22 AWG noninsulated, PVC insulated and nylon insulated
- Provides a reliable, vibration-proof connection
- Allows for quick wire connects and disconnects from components
- Can be used/clamped repeatedly without damaging the wire
- Made of pure electrolytic Copper
- Electro Tin plated per Mil-T-10727
- Conveniently allows for multiple wires to be inserted into 1 terminal block contact

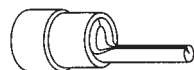
### Physical

Material: Copper  
Plating: Tin



### Krimtite™

| Wire Range AWG<br>(mm <sup>2</sup> ) | Order No.   |            | Insulation Color | Max. Insul. Dia. (in.) | Dimension            |                  |                | Lead-free |
|--------------------------------------|-------------|------------|------------------|------------------------|----------------------|------------------|----------------|-----------|
|                                      | Loose Piece | Mylar Tape |                  |                        | Overall Length (in.) | Pin Length (in.) | Pin Dia. (in.) |           |
| 18-22 (0.96-0.38)                    | 19211-0003  | 19211-0004 | N/A              | N/A                    | 17.0 (.670)          | 9.40 (.370)      | 2.03 (.080)    |           |
| 14-16 (1.94-1.23)                    | 19211-0005  | 19211-0006 |                  |                        |                      |                  |                |           |
| 10-12 (5.01-3.09)                    | 19211-0001  | 19211-0002 |                  |                        | 20.8 (.820)          | 11.7 (.460)      | 3.05 (.120)    |           |



### Physical

Material: Terminal—Copper  
Insulation—PVC  
Plating: Tin

### InsulKrimp™

| Wire Range AWG<br>(mm <sup>2</sup> ) | Order No.   |            | Insulation Color | Max. Insul. Dia. (in.) | Dimension            |                  |                | Lead-free |
|--------------------------------------|-------------|------------|------------------|------------------------|----------------------|------------------|----------------|-----------|
|                                      | Loose Piece | Mylar Tape |                  |                        | Overall Length (in.) | Pin Length (in.) | Pin Dia. (in.) |           |
| 18-22 (0.96-0.38)                    | 19212-0003  | 19212-0004 | Red              | 3.68 (.145)            | 22.6 (0.890)         | 9.40 (.370)      | 2.03 (.080)    |           |
| 14-16 (1.94-1.23)                    | 19212-0005  | 19212-0006 | Blue             | 4.45 (.175)            |                      |                  |                |           |
| 10-12 (5.01-3.09)                    | 19212-0001  | 19212-0002 | Yellow           | 6.35 (.250)            | 29.0 (1.140)         | 11.7 (.460)      | 3.05 (.120)    |           |



### Physical

Material: Terminal—Copper  
Ferrule—Brass  
Insulation—Nylon  
Plating: Terminal—Tin  
Ferrule—Tin

### Avikrimp™

| Wire Range AWG<br>(mm <sup>2</sup> ) | Order No.   |            | Insulation Color | Max. Insul. Dia. (in.) | Dimension            |                  |                | Lead-free |
|--------------------------------------|-------------|------------|------------------|------------------------|----------------------|------------------|----------------|-----------|
|                                      | Loose Piece | Mylar Tape |                  |                        | Overall Length (in.) | Pin Length (in.) | Pin Dia. (in.) |           |
| 18-22 (0.96-0.38)                    | 19213-0009  | 19213-0010 | Red              | 3.56 (.140)            | 21.8 (0.860)         | 9.40 (.370)      | 2.03 (.080)    |           |
| 14-16 (1.94-1.23)                    | 19213-0011  | 19213-0012 | Blue             | 4.32 (.170)            | 23.6 (0.930)         | 9.40 (.370)      | 2.03 (.080)    |           |
| 10-12 (5.01-3.09)                    | 19213-0007  | 19213-0008 | Yellow           | 5.72 (.225)            | 28.7 (1.130)         | 11.7 (.460)      | 3.05 (.120)    |           |

# MagKrimp™ Terminals 19195



## Features and Benefits

- For aluminum and copper magnet wire
- Insulation piercing
- Open barrel design allows for easy placement of square bar stock into barrel
- Accommodates round, rectangular and square magnet wire
- Tin plated to delay corrosion
- Penetrates all types of insulation, varnish, etc.

## Reference Information

Packaging: Box  
UL File No. E32244  
Designed In: inches

## Electrical

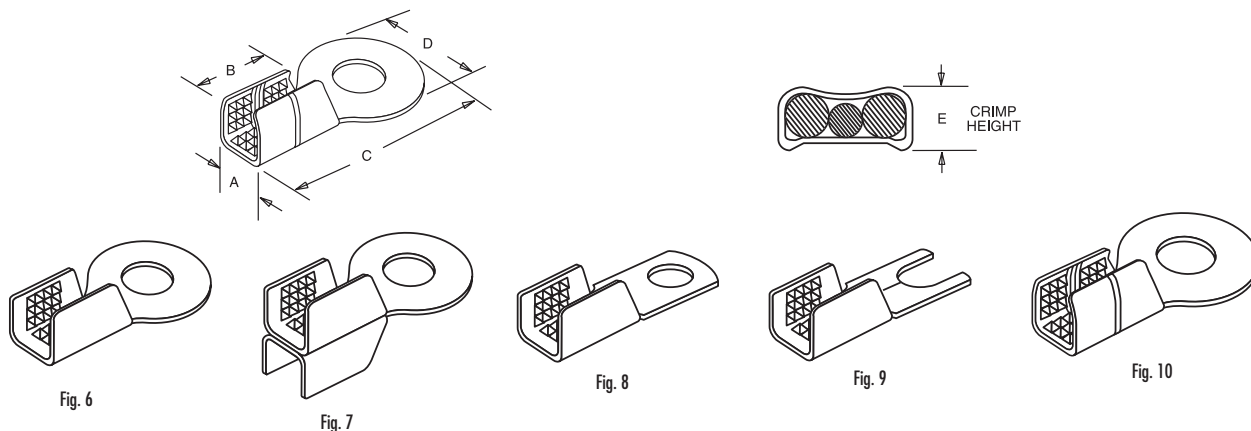
Voltage: 2000V AC  
Current: Contact Molex (wire size dependent)

## Mechanical

Wire Pullout: Contact Molex (wire size dependent)

## Physical

Material: Copper Alloy  
Plating: Tin  
Operating Temperature: -40°C to + 110°C



| Order No.  | Figure | Stud Size | Dimensions |             |             |             |             | Circular<br>Mil Area | Round Wire Range,<br>AWG (mm²) | Rectangular Wire Range |                           | Lead-free |
|------------|--------|-----------|------------|-------------|-------------|-------------|-------------|----------------------|--------------------------------|------------------------|---------------------------|-----------|
|            |        |           | A          | B           | C           | D           | E*          |                      |                                | Thickness              | Width                     |           |
| 19195-1022 | 8      | 8         | 9.65 (.38) | 14.2 (.56)  | 31.0 (1.22) | 10.4 (0.41) | 4.3 (0.17)  | 4,110-20,760         | 10-14(a) (5.01-1.94)           | 2.0-2.3 (.08-.09)      | 2.0-4.6 (.08-.18)         | Yes       |
| 19195-1006 |        | 10        |            |             | 31.0 (1.22) |             |             |                      |                                |                        |                           |           |
| 19195-1012 |        | 1/4       |            |             | 35.8 (1.41) |             |             |                      |                                |                        |                           |           |
| 19195-1115 | 9      | 10        | 9.65 (.38) | 14.2 (.56)  | 31.0 (1.22) | 10.4 (0.41) | 4.3 (0.17)  | 4,110-20,760         | 10-14(a) (5.01-1.94)           | 2.0-2.3 (.08-.09)      | 2.0-4.6 (.08-.18)         |           |
| 19195-1019 | 8      | 10        | 13.5 (.53) | 15.5 (.61)  | 40.1 (1.58) | 12.7 (0.50) | 6.35 (0.25) | 10,380-52,480        | 2(c)-12(b)<br>(33.70-3.09)     | 2.5-4.1 (.10-.16)      | 2.5-6.6 (.10-.26)         |           |
| 19195-1011 |        | 1/4       |            |             |             |             |             |                      |                                |                        |                           |           |
| 19195-1007 | 6      | 1/4       | 13.5 (.53) | 15.5 (.61)  | 40.1 (1.58) | 20.6 (0.81) | 6.35 (0.25) | 10,380-52,480        | 2(c)-12(b)<br>(33.70-3.09)     | 2.5-4.1 (.10-.16)      | 2.5-6.6 (.10-.26)         |           |
| 19195-1035 |        | 5/16      |            |             |             |             |             |                      |                                |                        |                           |           |
| 19195-1021 |        | 3/8       |            |             |             |             |             |                      |                                |                        |                           |           |
| 19195-1037 |        | 1/2       |            |             |             |             |             |                      |                                |                        |                           |           |
| 19195-1085 | 7      | 1/4       | 13.5 (.53) | 15.5 (.61)  | 40.1 (1.58) | 20.6 (0.81) | 12.7 (0.50) | 20,760-104,960(e)    | 2(c)-12(b)<br>(33.70-3.09)     | 2.5-4.1 (.10-.16)      | 2.5-6.6 (.10-.26)         |           |
| 19195-1056 |        | 3/8       |            |             |             |             |             |                      |                                |                        |                           |           |
| 19195-1034 | 10     | 3/8       | 22.4 (.88) | 38.1 (1.50) | 70.1 (2.76) | 26.9 (1.06) | (d)         | 50,000-115,000       |                                | 2.54-4.45 (.100-.175)  | 7.62-15.88<br>(.300-.625) |           |
| 19195-1040 |        | 1/2       |            |             |             |             |             |                      |                                |                        |                           |           |
| 19195-1031 |        | 3/8       |            |             |             |             |             | 165,000-230,000      |                                | 4.45-8.26 (.175-.325)  |                           |           |
| 19195-1047 |        | 1/2       |            |             |             |             |             |                      |                                |                        |                           |           |

Note: Wire sizes and combinations shown have been tested to and meet or exceed Molex specification. Connectors may be suitable for other wire sizes or combinations but should be tested for specific applications.

\* Not recommended for aluminum magnet wire finer than 21 gauge.

\* Dimension for reference only. See crimp die illustration for gauging.

(a) 4 wires maximum.

(b) 6 wires maximum.

(c) 3 wires maximum each barrel.

(d) 6 wires maximum each barrel.

(e) Crimping dies may not bottom. Connector height will depend on number and size of wires in barr Pump must deliver 9800 psi minimum.

## Splices

|                                             |            |
|---------------------------------------------|------------|
| MagKrimp™ .....                             | B-2        |
| Temp-Terms (High-Temperature Splices) ..... | B-3        |
| Parallel Splices .....                      | B-4        |
| Butt Splices .....                          | B-5 to B-7 |
| 3 and 4 Way Connectors .....                | B-7        |
| IDC Multi-Lock/Ulimate Wire Tap .....       | B-8        |

#### Features and Benefits

- For aluminum and copper magnet wire
- Insulation piercing
- Open barrel design allows for easy placement of square bar stock into barrel
- Accommodates round, rectangular and square magnet wire
- Tin plated to delay corrosion
- Penetrates all types of insulation, varnish

#### Reference Information

Packaging: Box  
UL File No. E32244  
Designed In: Inches

#### Electrical

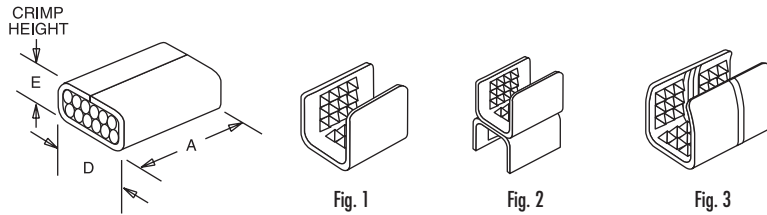
Voltage: 2000V AC  
Current: Contact Molex (wire size dependent)

#### Mechanical

Wire Pullout: Contact Molex (wire size dependent)

#### Physical

Material: Copper Alloy  
Plating: Tin  
Operating Temperature: -40°C to + 110°C



| Order No.  | Fig | Dimensions  |            |                   | Circular Mil Area | Round Wire Range, AWG (mm²) | Rectangular Wire Range |                       | Lead-free |
|------------|-----|-------------|------------|-------------------|-------------------|-----------------------------|------------------------|-----------------------|-----------|
|            |     | Length (A)  | Width (D)  | Crimp Height (D*) |                   |                             | Thickness              | Width                 |           |
| 19195-1002 | 1   | 16.0 (.63)  | 9.7 (.38)  | 43.2 (1.70)       | 4,110-20,760      | 10-14(a) (5.01-1.94)        | 2.0-2.3 (.08-.09)      | 2.0-4.6 (.08-.18)     | Yes       |
| 19195-1004 | 1   | 17.5 (.69)  | 13.5 (.53) | 6.35 (.25)        | 10,380-52,480     | 2-12(b) (33.70-3.09)        | 2.5-4.1 (.10-.16)      | 2.5-6.6 (.10-.26)     |           |
| 19195-1027 | 2   | 17.5 (.69)  | 13.5 (.53) | 12.7 (.50)        | 20,760-104,960(e) | 2-12(c) (33.70-3.09)        | 2.5-4.1 (.10-.16)      | 2.5-6.6 (.10-.26)     |           |
| 19195-1023 | 3   | 38.1 (1.50) | 22.4 (.88) | (d)               | 50,000-115,000    |                             | 2.54-4.45 (.100-.175)  | 7.62-15.9 (.300-.625) |           |
| 19195-1041 | 3   | 38.1 (1.50) | 22.4 (.88) | (d)               | 110,000-175,000   |                             | 4.45-6.35 (.175-.250)  | 7.62-15.9 (.300-.625) |           |
| 19195-1044 | 3   | 44.5 (1.75) | 22.4 (.88) | (d)               | 165,000-230,000   |                             | 4.45-8.26 (.175-.325)  | 7.62-15.9 (.300-.625) |           |

Note: Wire sizes and combinations shown have been tested to and meet or exceed Molex specifications. Connectors may be suitable for other wire sizes or combinations but should be tested for specific applications.

\* Not recommended for aluminum magnet wire finer than 21 gauge.

\* Dimension for reference only. See crimp die illustration for gauging.

(a) 4 wires maximum.

(b) 6 wires maximum.

(c) 6 wires maximum each barrel.

(d) Crimping dies may not bottom. Connector height will depend on number and size of wires in barrel. Pump must deliver 9800 psi minimum.

(e) CMA is total for both sides.

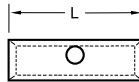
## Parallel Splices



343°C (650°F) VersaKrimp™

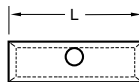
| Wire Range        | Order No.  | Minimum Inside Diameter | Maximum Outside Diameter | Maximum Length (L) | Stock Thickness | Lead-free |
|-------------------|------------|-------------------------|--------------------------|--------------------|-----------------|-----------|
| 18-22 (0.96-0.38) | 19203-0165 | 1.5 (.060)              | 3.3 (.130)               | 8.4 (.330)         | 0.8 (.032)      | Yes       |
| 14-16 (1.94-1.23) | 19203-0172 | 2.3 (.091)              | 4.1 (.160)               |                    | 1.0 (.040)      |           |
| 10-12 (5.01-3.09) | 19203-0169 | 3.3 (.130)              | 5.7 (.225)               |                    |                 |           |

## Butt Splices



343°C (650°F) VersaKrimp™

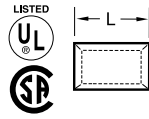
| Wire Range        | Order No.  | Minimum Inside Diameter | Maximum Outside Diameter | Maximum Length (L) | Stock Thickness | Lead-free |
|-------------------|------------|-------------------------|--------------------------|--------------------|-----------------|-----------|
| 18-22 (0.96-0.38) | 19203-0166 | 1.50 (.59)              | 3.30 (.130)              | 17.1 (.675)        | 0.8 (.032)      | Yes       |
| 14-16 (1.94-1.23) | 19203-0171 | 2.31 (.91)              | 4.06 (.160)              |                    |                 |           |
| 10-12 (5.01-3.09) | 19203-0183 | 3.50 (.138)             | 5.92 (.233)              | 21.0 (.827)        | 1.0 (.040)      |           |



483°C (900°F) Krimptite™

| Wire Range        | Order No.  | Minimum Inside Diameter | Maximum Outside Diameter | Maximum Length (L) | Stock Thickness | Lead-free |
|-------------------|------------|-------------------------|--------------------------|--------------------|-----------------|-----------|
| 18-22 (0.96-0.38) | 19203-0384 | 1.27 (.05)              | 3.56 (.140)              | 14.7 (.580)        | 0.8 (.032)      | Yes       |
| 14-16 (1.94-1.23) | 19203-0385 | 1.78 (.07)              | 4.32 (.17)               |                    |                 |           |
| 10-12 (5.01-3.09) | 19203-0386 | 3.05 (.12)              | 5.84 (.23)               | 14.9 (.585)        | 1.0 (.040)      |           |

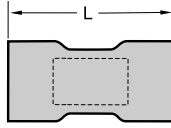
# Parallel Splices



**Physical**  
Material: Copper  
Plating: Tin

## Krimptite™

| Wire Range AWG (mm <sup>2</sup> ) | Order No.  | Minimum Inside Diameter (ID) | Maximum Outside Diameter (OD) | Maximum Length (L) | Lead-free |
|-----------------------------------|------------|------------------------------|-------------------------------|--------------------|-----------|
| 14-16 (1.94-1.23)                 | 19208-0001 | 2.10 (.084)                  | 4.20 (.165)                   | 8.60 (.340)        | Yes       |
| 10-12 (5.01-3.09)                 | 19208-0002 | 3.30 (.128)                  | 5.80 (.230)                   | 8.40 (.330)        |           |



**Physical**  
Material: Splice—Copper  
Insulation—PVC  
Plating: Tin

## InsulKrimp™

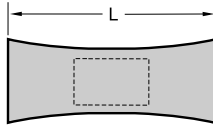
| Wire Range AWG (mm <sup>2</sup> ) | Order No.   | Maximum Length (L) | Lead-free |
|-----------------------------------|-------------|--------------------|-----------|
| 18-22 (0.96-0.38)                 | 19206-0002* | 18.10 (.712)       | Yes       |
| 14-16 (1.94-1.23)                 | 19206-0004  | 18.70 (.735)       |           |
|                                   | 19206-0005* | 18.70 (.735)       |           |
| 10-12 (5.01-3.09)                 | 19206-0008  | 12.10 (.831)       |           |
|                                   | 19206-0010* | 12.10 (.831)       |           |



**Physical**  
Material: Copper  
Plating: Tin

## VersaKrimp™

| Wire Range AWG (mm <sup>2</sup> ) | Order No.   | Minimum Inside Diameter (ID) | Maximum Outside Diameter (OD) | Maximum Length (L) | Lead-free |
|-----------------------------------|-------------|------------------------------|-------------------------------|--------------------|-----------|
| 18-22 (0.96-0.38)                 | 19207-0001* | 1.50 (.060)                  | 3.30 (.130)                   | 8.40 (.332)        | Yes       |
| 14-16 (1.94-1.23)                 | 19205-0001* | 2.30 (.091)                  | 4.10 (.160)                   | 8.40 (.330)        |           |
| 10-12 (5.01-3.09)                 | 19205-0003* | 3.30 (.130)                  | 5.70 (.225)                   | 8.40 (.330)        |           |
| 8 (7.96)                          | 19205-0004  | 4.20 (.165)                  | 7.50 (.295)                   | 10.40 (.408)       |           |
| 6 (13.48)                         | 19205-0006  | 5.80 (.230)                  | 9.50 (.374)                   | 12.10 (.477)       |           |
| 4 (21.28)                         | 19205-0007  | 7.00 (.277)                  | 11.60 (.457)                  | 13.90 (.547)       |           |
| 2 (33.70)                         | 19205-0008  | 9.00 (.357)                  | 13.70 (.538)                  | 17.20 (.680)       |           |
| 1/0 (52.95)                       | 19205-0009  | 11.20 (.439)                 | 15.70 (.620)                  | 20.10 (.790)       |           |
| 2/0 (67.39)                       | 19205-0010  | 12.60 (.496)                 | 17.70 (.697)                  | 19.80 (.779)       |           |
| 3/0 (84.72)                       | 19215-0049  | 13.80 (.545)                 | 19.30 (.760)                  | 20.30 (.800)       |           |
| 4/0 (107.76)                      | 19215-0050  | 15.80 (.621)                 | 21.80 (.860)                  | 20.80 (.820)       |           |



**Physical**  
Material: Splice—Copper  
Insulation—Nylon  
Plating: Tin

## NylaKrimp™ – Nylon Insulation

| Wire Range AWG (mm <sup>2</sup> ) | Order No.   | Maximum Length (L) | Lead-free |
|-----------------------------------|-------------|--------------------|-----------|
| 18-22 (0.96-0.38)                 | 19207-0002* | 17.00 (.670)       | Yes       |
| 14-16 (1.94-1.23)                 | 19207-0004* | 16.40 (.645)       |           |
| 10-12 (5.01-3.09)                 | 19207-0005* | 17.50 (.688)       |           |

\*Part has seamless barrel instead of butted seam

# Step Down Butt Splices



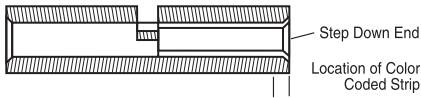
## Features and Benefits

- The Step Down Butt Splice is the perfect solution when 2 wires need to be inserted in one end of a splice and a single wire in the other end

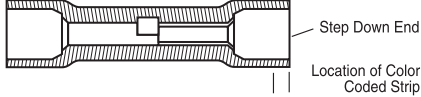
## Physical

Material: Splice—Copper  
Insulation—PVC  
Plating: Tin

### NON-INSULATED

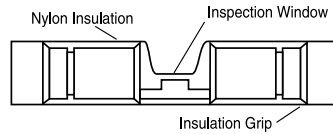


### INSULATED



| Wire Size<br>AWG (mm <sup>2</sup> )     | CMA Range                  | Order No.   |            | Insulation<br>Color     | Lead-free |
|-----------------------------------------|----------------------------|-------------|------------|-------------------------|-----------|
|                                         |                            | Loose Piece | Mylar Tape |                         |           |
| 14-16 to 18-22 (1.94-1.23 to 0.96-0.38) | 2050-5180 to 509-2600      | 19215-0013  | 19215-0017 | Noninsulated            | Yes       |
| 10-12 to 14-16 (5.01-3.09 to 1.94-1.23) | 5180-13100 to 2050-5180    | 19215-0023  | 19215-0027 |                         |           |
| 8 to 10-12 (7.96 to 5.01-3.09)          | 13100-20800 to 5180-13100  | 19215-0037  |            |                         |           |
| 6 to 8 (13.48 to 7.96)                  | 20800-33100 to 13100-20800 | 19215-0042  |            |                         |           |
| 14-16 to 18-22 (1.94-1.23 to 0.96-0.38) | 2050-5180 to 509-2600      | 19154-0022  | 19154-0057 | Blue with red stripe    |           |
| 10-12 to 14-16 (5.01-3.09 to 1.94-1.23) | 5180-13100 to 2050-5180    | 19154-0035  | 19154-0036 | Yellow with blue stripe |           |
| 8 to 10-12 (7.96 to 5.01-3.09)          | 13100-20800 to 5180-13100  | 19154-0044  |            | Red with yellow stripe  |           |
| 6 to 8 (13.48 to 7.96)                  | 20800-33100 to 13100-20800 | 19154-0047  |            | Blue with red stripe    |           |

# Window Butt Splices

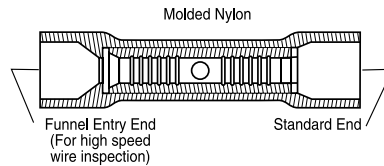


## Physical

Material: Splice—Copper  
Ferrule—Brass  
Insulation—Nylon  
Plating: Splice—Tin  
Ferrule—Tin

| Wire Size<br>AWG (mm <sup>2</sup> ) | Mil Spec  | Order No.   |            | Maximum Length<br>(L) | Maximum Wire Insulation<br>Diameter | Insulation<br>Color | Lead-free |
|-------------------------------------|-----------|-------------|------------|-----------------------|-------------------------------------|---------------------|-----------|
|                                     |           | Loose Piece | Mylar Tape |                       |                                     |                     |           |
| 18-22 (0.96-0.38)                   | M7928/5-3 | 19199-0007  | 19199-0008 | 32.0 (1.260)          | 3.56 (.140)                         | Red                 | Yes       |
| 14-16 (1.94-1.23)                   | M7928/5-4 | 19199-0009  | 19199-0010 | 32.0 (1.260)          | 4.32 (.170)                         | Blue                |           |
| 10-12 (5.01-3.09)                   | M7928/5-5 | 19199-0011  | 19199-0012 | 41.1 (1.620)          | 5.79 (.228)                         | Yellow              |           |

# Funnel Entry Nylon Butt Splices

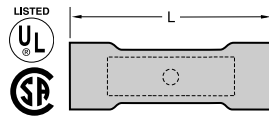


## Physical

Material: Splice—Copper  
Insulation—Nylon  
Plating: Tin

| Wire Range AWG (mm²) | Order No.   |            | Maximum Length (in.)<br>(L) | Maximum Wire Insulation Diameter (in.) |              | Seam Type | Lead-free |
|----------------------|-------------|------------|-----------------------------|----------------------------------------|--------------|-----------|-----------|
|                      | Loose Piece | Mylar Tape |                             | Funnel End                             | Standard End |           |           |
| 18-22 (0.96-0.38)    | 19202-0011  | 19202-0012 | 27.2 (1.070)                | 3.73 (.147)                            | 4.09 (.161)  | Seamless  | Yes       |
| 14-16 (1.94-1.23)    | 19202-0027  | 19202-0029 | 27.2 (1.070)                | 4.70 (.185)                            | 5.05 (.199)  |           |           |
| 10-12 (5.01-3.09)    | 19202-0046  | 19202-0047 | 29.2 (1.150)                | 6.65 (.262)                            | 7.01 (.276)  |           |           |
| 18-22 (0.96-0.38)    | 19202-0063  | 19202-0007 | 27.2 (1.070)                | 3.73 (.147)                            | 4.09 (.161)  |           |           |
| 14-16 (1.94-1.23)    | 19202-0019  | 19202-0021 | 27.2 (1.070)                | 4.70 (.185)                            | 5.05 (.199)  | Butted    |           |
| 10-12 (5.01-3.09)    | 19202-0039  | 19202-0041 | 29.2 (1.150)                | 6.65 (.262)                            | 7.01 (.276)  |           |           |

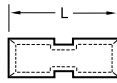
# Seamless Barrel Butt Splices



**Physical**  
Material: Terminal—Copper  
Insulation—PVC  
Plating: Tin

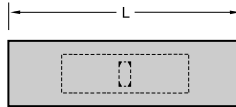
## InsulKrimp™

| Wire Size<br>AWG (mm²) | Order No.   |            | Maximum Length<br>(L) | Maximum Wire<br>Insulation Diameter | Lead-free |
|------------------------|-------------|------------|-----------------------|-------------------------------------|-----------|
|                        | Loose Piece | Mylar Tape |                       |                                     |           |
| 8 (7.96)               | 19154-0041  | 19154-0042 | 38.40 (1.510)         | 9.80 (.385)                         | Yes       |
| 6 (13.48)              | 19154-0045  |            | 47.10 (1.855)         | 11.20 (.440)                        |           |
| 4 (21.28)              | 19154-0048  |            | 51.80 (2.036)         | 15.40 (.605)                        |           |
| 2 (33.70)              | 19154-0049  |            | 32.40 (1.277)         | 16.50 (.650)                        |           |



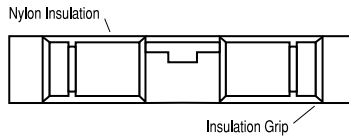
## VersaKrimp™

| Wire Size<br>AWG (mm²) | Order No.   |            | Minimum Inside Diameter | Maximum Outside Diameter | Maximum Length<br>(L) | Lead-free |
|------------------------|-------------|------------|-------------------------|--------------------------|-----------------------|-----------|
|                        | Loose Piece | Mylar Tape |                         |                          |                       |           |
| 8 (7.96)               | 19215-0034  | 19215-0035 | 4.20 (.165)             | 7.50 (.295)              | 21.90 (.864)          | Yes       |
| 6 (13.48)              | 19215-0040  |            | 5.80 (.230)             | 9.50 (.374)              | 26.50 (1.045)         |           |
| 4 (21.28)              | 19215-0045  |            | 7.00 (.277)             | 11.60 (.457)             | 29.30 (1.155)         |           |
| 2 (33.70)              | 19215-0046  |            | 9.10 (.357)             | 13.70 (.538)             | 32.50 (1.280)         |           |
| 1/0 (52.95)            | 19215-0047* |            | 11.20 (.439)            | 15.70 (.620)             | 36.60 (1.440)         |           |
| 2/0 (67.39)            | 19215-0048* |            | 12.60 (.496)            | 17.70 (.697)             | 36.60 (1.440)         |           |
| 3/0 (84.72)            | 19205-0012* |            | 13.80 (.545)            | 19.30 (.760)             | 39.10 (1.540)         |           |
| 4/0 (107.76)           | 19205-0013* |            | 15.80 (.621)            | 21.80 (.860)             | 39.10 (1.540)         |           |



## NylaKrimp™

| Wire Size<br>AWG (mm²) | Loose Piece<br>Order No. | Maximum Length<br>(L) | Maximum Wire<br>Insulation Diameter | Lead-free |
|------------------------|--------------------------|-----------------------|-------------------------------------|-----------|
| 8 (7.96)               | 19202-0054               | 36.60 (1.440)         | 6.70 (.265)                         | Yes       |
| 6 (13.48)              | 19202-0055               | 45.50 (1.790)         | 8.70 (.342)                         |           |
| 4 (21.28)              | 19202-0056               | 51.80 (2.040)         | 10.90 (.429)                        |           |

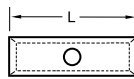


## Avikrimp™

| Wire Range<br>AWG (mm²) | Order No.   |            | Maximum Length<br>(L) | Maximum Wire<br>Insulation Diameter | Insulation Color | Lead-free |
|-------------------------|-------------|------------|-----------------------|-------------------------------------|------------------|-----------|
|                         | Loose Piece | Mylar Tape |                       |                                     |                  |           |
| 18-22 (0.96-0.38)       | 19199-0013  | 19199-0002 | 32.0 (1.260)          | 3.60 (.140)                         | Red              | Yes       |
| 14-16 (1.94-1.23)       | 19199-0003  | 19199-0004 | 32.0 (1.260)          | 4.30 (.170)                         | Blue             |           |
| 10-12 (5.01-3.09)       | 19199-0005  | 19199-0006 | 41.2 (1.620)          | 5.80 (.228)                         | Yellow           |           |

**Physical**  
Material: Terminal—Copper  
Ferrule—Brass  
Insulation—Nylon  
Plating: Terminal—Tin  
Ferrule—Tin

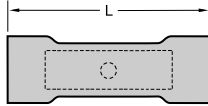
# Butt Splices



**Physical**  
Material: Terminal—Copper  
Plating: Tin

## Krimptite™

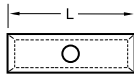
| Wire Range AWG    | Order No.   |            | Inside Diameter | Outside Diameter | Maximum Length (L) | Lead-free |
|-------------------|-------------|------------|-----------------|------------------|--------------------|-----------|
|                   | Loose Piece | Mylar Tape |                 |                  |                    |           |
| 18-22 (0.96-0.38) | 19189-0002  | 19189-0004 | 1.40 (.055)     | 3.34 (.131)      | 14.70 (.580)       | Yes       |
| 14-16 (1.94-1.23) | 19189-0008  | 19189-0010 | 1.98 (.078)     | 5.71 (.225)      | 14.70 (.580)       |           |
| 10-12 (5.01-3.09) | 19189-0015  | 19189-0017 | 3.15 (.124)     | 4.14 (.163)      | 14.90 (.585)       |           |



**Physical**  
Material: Terminal—Copper  
Insulation—PVC  
Plating: Tin

## InsulKrimp™

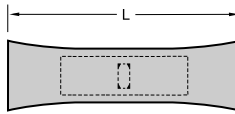
| Wire Range AWG (mm²) | Order No.   |             | Maximum Length (L) | Maximum Wire Insulation Diameter | Lead-free |
|----------------------|-------------|-------------|--------------------|----------------------------------|-----------|
|                      | Loose Piece | Mylar Tape  |                    |                                  |           |
| 18-22 (0.96-0.38)    | 19154-0004  | 19154-0006  | 24.40 (.960)       | 4.10 (.160)                      | Yes       |
|                      | 19154-0011* | 19154-0012* | 26.30 (1.035)      | 3.70 (.145)                      |           |
| 14-16 (1.94-1.23)    | 19154-0015  | 19154-0017  | 25.90 (1.020)      | 4.60 (.180)                      |           |
|                      | 19154-0023* | 19154-0024* | 27.40 (1.080)      | 4.30 (.170)                      |           |
| 10-12 (5.01-3.09)    | 19154-0028  | 19154-0030  | 28.80 (1.135)      | 6.70 (.265)                      |           |
|                      | 19154-0037* | 19154-0038* | 33.10 (1.305)      | 6.60 (.260)                      |           |



**Physical**  
Material: Copper  
Plating: Tin

## VersaKrimp™

| Wire Range AWG (mm²) | Order No.   |             | Inside Diameter | Outside Diameter | Maximum Length (L) | Lead-free |
|----------------------|-------------|-------------|-----------------|------------------|--------------------|-----------|
|                      | Loose Piece | Mylar Tape  |                 |                  |                    |           |
| 18-22 (0.96-0.38)    | 19215-0009* | 19215-0011* | 1.50 (.059)     | 3.30 (.130)      | 17.10 (.675)       | Yes       |
| 14-16 (1.94-1.23)    | 19215-0018* | 19215-0115* | 2.30 (.091)     | 4.10 (.160)      | 17.10 (.675)       |           |
| 10-12 (5.01-3.09)    | 19215-0028* | 19215-0030* | 3.50 (.138)     | 5.70 (.223)      | 21.00 (.827)       |           |



**Physical**  
Material: Terminal—Copper  
Insulation—Nylon  
Plating: Tin

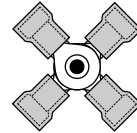
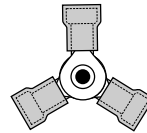
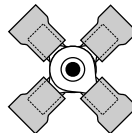
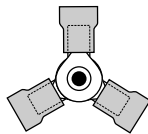
## NylaKrimp™

| Wire Range AWG (mm²) | Order No.   |             | Maximum Length (L) | Maximum Wire Insulation Diameter | Lead-free |
|----------------------|-------------|-------------|--------------------|----------------------------------|-----------|
|                      | Loose Piece | Mylar Tape  |                    |                                  |           |
| 18-22 (0.96-0.38)    | 19202-0013* | 19202-0016* | 26.30 (1.035)      | 3.30 (.130)                      | Yes       |
| 14-16 (1.94-1.23)    | 19202-0031* | 19202-0035* | 27.40 (1.080)      | 3.60 (.140)                      |           |
| 10-12 (5.01-3.09)    | 19202-0049* | 19202-0051* | 33.00 (1.300)      | 5.70 (.223)                      |           |

\*Part has seamless barrel instead of butted seam.

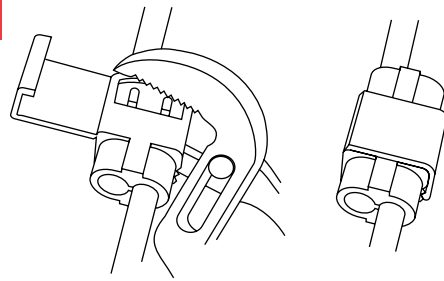
# 3 and 4 Way Connectors

**Physical**  
Material: Copper



| Wire Range AWG (mm²) | InsulKrimp™ –<br>PVC Insulation | InsulKrimp™ –<br>PVC Insulation | Avikrimp™ –<br>Nylon Insulation | Avikrimp™ –<br>Nylon Insulation | Lead-free |
|----------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------|
|                      | Order No.                       |                                 |                                 |                                 |           |
| 18-22 (0.96-0.38)    | 19204-0004                      | 19204-0003                      | 19204-0009                      | 19204-0008                      | Yes       |
| 14-16 (1.94-1.23)    | 19204-0014                      | 19204-0013                      | 19204-0018                      | 19204-0017                      |           |
| 10-12 (5.01-3.09)    | 19204-0026                      | 19204-0025                      | 19204-0030                      | 19204-0029                      |           |

# Insulation Displacement Connectors (IDC) Multi-Lock



The quick, convenient Multi-Lock connectors have many uses. Using only ordinary channel-lock pliers, these color-coded connectors make quick, reliable, pre-insulated splices without stripping, twisting, soldering or the need for special tools.

They will tap-splice, pigtail-splice, parallel splice or in-line splice insulated Copper wire conductors for a wide range of applications.

## Physical

Material: Barb—Brass  
Housing—Polypropylene  
Plating: Tin

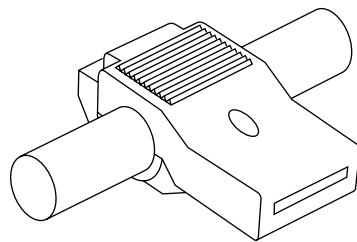
## Applications:

- Automotive
  - Lights
  - Gauges
  - Speakers
  - Horn
- Non-Automotive transportation
  - Marine
  - Truck and bus
  - RV
  - ATVs
- Home and Office
  - Shop equipment
  - Burglar alarms
  - Security systems

## Self-tapping (IDC) Tap-And-Run Connectors

| Wire Range AWG (mm <sup>2</sup> ) | Order No.  | Possible Layouts |  |  |  |  | Lead-free |
|-----------------------------------|------------|------------------|--|--|--|--|-----------|
| 18-22 (0.96-0.38)                 | 19216-0005 |                  |  |  |  |  | Yes       |
| 14-18 (1.94-1.23)                 | 19216-0004 |                  |  |  |  |  |           |
|                                   | 19216-0003 |                  |  |  |  |  |           |
| 10-12 (5.01-3.09)                 | 19216-0002 |                  |  |  |  |  |           |

# Ultimate Wire Tap



The Wire Tap makes tapping into an existing wire quick, easy and reliable. This Tap-And-Run splice is actually a fully insulated female quick disconnect that can be spliced onto a wire and then mated with a fully insulated\* male quick disconnect, all without stripping, twisting, soldering or the need for special tools. The dual barb insulation piercing design ensures reliable contact.

## Physical

Material: Terminal—Copper Alloy  
Housing—Nylon  
Plating: Tin

| Wire Range AWG (mm <sup>2</sup> ) | Order No.  | Insulation Color | Lead-free |
|-----------------------------------|------------|------------------|-----------|
| 18-22 (0.96-0.38)                 | 19216-0011 | Red              | Yes       |
| 14-16 (1.94-1.23)                 | 19216-0010 | Blue             |           |
| 12 (3.09)                         | 19216-0009 | Yellow           |           |

\* Also mates with partially or noninsulated quick disconnects

### Quick Disconnects

|                                                               |              |
|---------------------------------------------------------------|--------------|
| Fully Insulated Quick Disconnects .....                       | C-2 to C-4   |
| Piggyback Terminals/Tab Adapters .....                        | C-5 to C-6   |
| Uninsulated Flag Terminals/Temp-Terms Quick Disconnects ..... | C-7          |
| Tape-Fed and Loose Piece Quick Disconnects .....              | C-8 to C-11  |
| Metal Strip Quick Disconnects .....                           | C-11 to C-13 |
| PCB Tabs .....                                                | C-14 to C-15 |

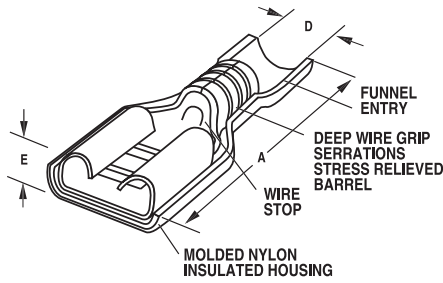
# InsulKrimp™ Fully Insulated Quick Disconnects



## Features and Benefits

- Designed for dense packaging requirements; the profile height is lower than other competing products on the market
- Integrity of mechanical/electrical performance is assured for wire secureness, operating temperatures, tensile strength, dielectric parameters and insertion/extraction forces by meeting UL 310 standards (Listed under UL File No. E79133)
- Color-coded translucent insulator allows easy identification of terminal size and wire gauge:  
Red—18 to 22 AWG  
Blue—14 to 16 AWG  
Yellow—24 to 26 AWG and 10 to 12 AWG

- Translucent “see-through” insulator provides fast, on-line quality control inspection by allowing a quick visual check of the wire/terminal assembly
- Funnel entrance is designed for increased crimping rates by speeding wire delivery into the crimp section and eliminating wire strand fold back
- A wire stop stamped into the crimp barrel prevents insertion of over-stripped wires



## Female—Standard Flare

| Wire Range<br>AWG (mm²)     | Accepts Tab Size            | Order No.                   |               |                 | Color       | Stock       | Dimension     |                                         |               | Lead-free |
|-----------------------------|-----------------------------|-----------------------------|---------------|-----------------|-------------|-------------|---------------|-----------------------------------------|---------------|-----------|
|                             |                             | Loose<br>Piece              | Mylar<br>Tape | Molded<br>Strip |             |             | Length<br>(A) | Maximum Wire<br>Insulation Diameter (D) | Height<br>(E) |           |
| 24-26 (0.22-0.13)           | 6.35 by 0.81 (.250 by .032) | 19003-0071                  | 19003-0073    | 19003-0106      | Yellow      | 0.41 (.016) | 21.8 (.860)   | 1.91 (.075)                             | 4.57 (.180)   | Yes       |
|                             | 4.75 by 0.81 (.187 by .032) | 19003-0068                  | 19003-0070    | 19003-0104      |             |             | 19.8 (.780)   | 1.91 (.075)                             | 4.06 (.160)   |           |
|                             | 4.75 by 0.51 (.187 by .020) | 19003-0064                  | 19003-0067    | 19003-0103      |             |             | 19.8 (.780)   | 1.91 (.075)                             | 4.06 (.160)   |           |
| 18-22 (0.96-0.38)           | 6.35 by 0.81 (.250 by .032) | 19003-0001                  | 19003-0003    | 19003-0105      | Red         |             | 21.8 (.860)   | 3.43 (.135)                             | 4.57 (.180)   |           |
|                             | 4.75 by 0.51 (.187 by .020) | 19003-0011                  | 19003-0013    | 19003-0107      |             |             | 19.8 (.780)   | 3.43 (.135)                             | 4.06 (.160)   |           |
|                             | 4.75 by 0.81 (.187 by .032) | 19003-0017                  | 19003-0020    | 19003-0108      |             |             | 19.8 (.780)   | 3.43 (.135)                             | 4.06 (.160)   |           |
|                             | 5.21 by 0.51 (.205 by .020) | 19003-0036                  | 19003-0074    | 19003-0109      |             |             | 19.8 (.780)   | 3.43 (.135)                             | 4.06 (.160)   |           |
|                             | 6.35 by 0.81 (.250 by .032) | 19003-0038                  | 19003-0075    | 19003-0110      |             |             | 19.8 (.780)   | 3.43 (.135)                             | 4.06 (.160)   |           |
|                             | 2.79 by 0.51 (.110 by .020) | 19003-0024                  | 19003-0026    | 19003-0097      |             | 0.30 (.012) | 19.8 (.780)   | 3.43 (.135)                             | 3.81 (.150)   |           |
|                             | 2.79 by 0.81 (.110 by .032) | 19003-0030                  | 19003-0032    | 19003-0098      |             |             | 19.8 (.780)   | 3.43 (.135)                             | 3.81 (.150)   |           |
|                             | 14-16 (1.94-1.23)           | 6.35 by 0.81 (.250 by .032) | 19003-0040    | 19003-0042      |             | 19003-0041  | Blue          | 0.41 (.016)                             | 21.8 (.860)   |           |
| 4.75 by 0.51 (.187 by .020) |                             | 19003-0050                  | 19003-0052    | 19003-0051      | 19.8 (.780) | 4.06 (.160) |               |                                         | 4.32 (.170)   |           |
| 4.75 by 0.81 (.187 by .032) |                             | 19003-0056                  | 19003-0058    | 19003-0057      | 19.8 (.780) | 4.06 (.160) |               |                                         | 4.32 (.170)   |           |
| 5.21 by 0.51 (.205 by .020) |                             | 19003-0062                  | 19003-0077    | 19003-0085      | 19.8 (.780) | 4.06 (.160) |               |                                         | 4.32 (.170)   |           |
| 6.35 by 0.81 (.250 by .032) |                             | 19003-0063                  | 19003-0078    | 19003-0086      | 19.8 (.780) | 4.06 (.160) |               |                                         | 4.32 (.170)   |           |
| 10-12 (5.01-3.09)           | 6.35 by 0.81 (.250 by .032) | 19606-0002                  | 19606-0003    | 19606-0001      | Yellow      | 0.81 (.032) | 26.1 (1.030)  | 6.10 (.240)                             | 5.59 (.220)   |           |

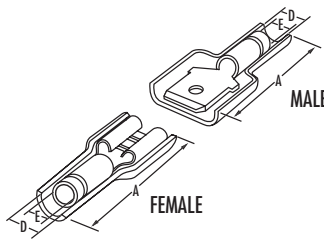
## Female—Expanded Flare

| Wire Range<br>AWG (mm <sup>2</sup> ) | Accepts Tab Size            | Order No.   |            |              | Color  | Stock       | Dimension    |                                      |             | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|--------------|--------|-------------|--------------|--------------------------------------|-------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Molded Strip |        |             | Length (A)   | Maximum Wire Insulation Diameter (D) | Height (E)  |           |
| 18-22 (0.96-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19003-0008  | 19003-0010 | 19003-0009   | Red    | 0.41 (.016) | 23.7 (.935)  | 5.84 (.230)                          | 4.57 (.180) | Yes       |
|                                      | 4.75 by 0.51 (.187 by .020) | 19003-0014  | 19003-0016 | 19003-0015   |        |             | 21.8 (.860)  | 5.84 (.230)                          | 4.06 (.160) |           |
|                                      | 4.75 by 0.81 (.187 by .032) | 19003-0021  | 19003-0023 | 19003-0022   |        | 0.30 (.012) | 21.8 (.860)  | 5.84 (.230)                          | 4.06 (.160) |           |
|                                      | 2.79 by 0.51 (.110 by .020) | 19003-0027  | 19003-0029 | 19003-0028   |        |             | 21.8 (.860)  | 5.84 (.230)                          | 3.81 (.150) |           |
|                                      | 2.79 by 0.81 (.110 by .032) | 19003-0033  | 19003-0035 | 19003-0034   |        |             | 21.8 (.860)  | 5.84 (.230)                          | 3.81 (.150) |           |
| 14-16 (1.96-1.23)                    | 6.35 by 0.81 (.250 by .032) | 19003-0047  | 19003-0049 | 19003-0048   | Blue   | 0.41 (.016) | 23.7 (.935)  | 6.60 (.260)                          | 4.57 (.180) |           |
|                                      | 4.75 by 0.51 (.187 by .020) | 19003-0053  | 19003-0055 | 19003-0054   |        |             | 21.8 (.860)  | 6.60 (.260)                          | 4.32 (.170) |           |
|                                      | 4.75 by 0.81 (.187 by .032) | 19003-0059  | 19003-0061 | 19003-0060   |        |             | 21.8 (.860)  | 6.60 (.260)                          | 4.32 (.170) |           |
| 10-12 (5.01-3.09)                    | 6.35 by 0.81 (.250 by .032) | 19005-0010  | 19005-0015 | 19005-0014   | Yellow | 0.46 (.018) | 26.4 (1.040) | 6.99 (.275)                          | 7.37 (.290) |           |

## Female, UL 94V-0 Nylon

| Wire Range<br>AWG (mm²) | Accepts Tab Size            | Order No.      |                 |               | Color  | Stock       | Dimension     |                                         |               | Lead-free |
|-------------------------|-----------------------------|----------------|-----------------|---------------|--------|-------------|---------------|-----------------------------------------|---------------|-----------|
|                         |                             | Loose<br>Piece | Molded<br>Strip | Mylar<br>Tape |        |             | Length<br>(A) | Maximum Wire<br>Insulation Diameter (D) | Height<br>(E) |           |
| 18-22 (0.96-0.38)       | 6.35 by 0.81 (.250 by .032) | 19003-0005     | 19003-0111      | 19003-0007    | Red    | 0.41 (.016) | 21.8 (.860)   | 3.43 (.135)                             | 4.57 (.180)   | Yes       |
| 14-16 (1.96-1.23)       | 6.35 by 0.81 (.250 by .032) | 19003-0044     | 19003-0045      | 19003-0080    | Blue   |             | 21.8 (.860)   | 3.68 (.145)                             | 4.57 (.180)   |           |
| 10-12 (5.01-3.09)       | 6.35 by 0.81 (.250 by .032) | 19005-0016     | 19005-0017      | 19003-0018    | Yellow |             | 26.4 (1.040)  | 6.99 (.275)                             | 7.37 (.290)   |           |
| 24-26 (0.22-0.13)       | 4.75 by 0.51 (.187 by .020) | 19003-0138     | 19003-0140      | 19003-0139    |        |             | 19.8 (.780)   | 1.91 (.075)                             | 4.06 (.160)   |           |
|                         | 4.75 by 0.81 (.187 by .032) | 19003-0141     | 19003-0143      | 19003-0142    |        |             | 19.8 (.780)   | 1.91 (.075)                             | 4.06 (.160)   |           |
| 18-22 (0.96-0.38)       | 4.75 by 0.51 (.187 by .020) | 19003-0126     | 19003-0128      | 19003-0127    | Red    |             | 19.8 (.780)   | 3.43 (.135)                             | 4.06 (.160)   |           |
|                         | 4.75 by 0.81 (.187 by .032) | 19003-0129     | 19003-0131      | 19003-0130    |        |             | 19.8 (.780)   | 3.43 (.135)                             | 4.06 (.160)   |           |
| 14-16 (1.96-1.23)       | 4.75 by 0.51 (.187 by .020) | 19003-0132     | 19003-0134      | 19003-0133    | Blue   |             | 19.8 (.780)   | 4.06 (.160)                             | 4.32 (.170)   |           |
|                         | 4.75 by 0.81 (.187 by .032) | 19003-0135     | 19003-0137      | 19003-0136    |        |             | 19.8 (.780)   | 4.06 (.160)                             | 4.32 (.170)   |           |

# Avikrimp™ Fully Insulated Quick Disconnects



## Features and Benefits

- Avikrimp provides a metal insulation support sleeve for superior strain relief
- Fulfills the double crimp (support) requirements of VDE and other DIN specifications

### Male—Standard Flare

| Wire Range<br>AWG (mm²) | Male Tab Size               | Order No.   |            | Color  | Stock       | Dimension    |                                      |                 | Lead-free |
|-------------------------|-----------------------------|-------------|------------|--------|-------------|--------------|--------------------------------------|-----------------|-----------|
|                         |                             | Loose Piece | Mylar Tape |        |             | Length (A)   | Maximum Wire Insulation Diameter (D) | Barrel Dia. (E) |           |
| 18-22 (0.96-0.38)       | 6.35 by 0.81 (.250 by .032) | 19001-0001  | 19001-0002 | Red    | 0.79 (.031) | 24.4 (.960)  | 3.56 (.140)                          | 1.42 (.056)     | Yes       |
|                         | 4.75 by 0.51 (.187 by .020) | 19001-0003  | 19001-0005 |        |             | 22.9 (.900)  | 3.56 (.140)                          | 1.42 (.056)     |           |
| 14-16 (1.94-1.23)       | 6.35 by 0.81 (.250 by .032) | 19001-0006  | 19001-0007 | Blue   | 0.79 (.031) | 24.4 (.960)  | 4.32 (.170)                          | 2.13 (.084)     |           |
|                         | 4.75 by 0.51 (.187 by .020) | 19001-0008  | 19001-0009 |        |             | 22.9 (.900)  | 4.32 (.170)                          | 2.13 (.084)     |           |
| 10-12 (5.01-3.09)       | 6.35 by 0.81 (.250 by .032) | 19001-0010  | 19001-0011 | Yellow | 0.79 (.031) | 27.4 (1.080) | 5.84 (.230)                          | 3.58 (.141)     |           |

### Female—Standard Flare

| Wire Range<br>AWG (mm²) | Accepts Tab Size            | Order No.   |            |             | Color  | Stock       | Dimension   |                                      |                 | Lead-free |
|-------------------------|-----------------------------|-------------|------------|-------------|--------|-------------|-------------|--------------------------------------|-----------------|-----------|
|                         |                             | Loose Piece | Mylar Tape | Metal Strip |        |             | Length (A)  | Maximum Wire Insulation Diameter (D) | Barrel Dia. (E) |           |
| 18-22 (0.96-0.38)       | 6.35 by 0.81 (.250 by .032) | 19002-0001  | 19002-0002 | 19002-0004  | Red    | 0.41 (.016) | 22.6 (.890) | 3.05 (.120)                          | 1.42 (.056)     | Yes       |
|                         | 4.75 by 0.51 (.187 by .020) | 19002-0005  | 19002-0007 | 19002-0008  |        |             | 20.3 (.800) | 3.05 (.120)                          | 1.42 (.056)     |           |
|                         | 4.75 by 0.81 (.187 by .032) | 19002-0009  | 19002-0010 | 19002-0012  |        |             | 20.3 (.800) | 3.05 (.120)                          | 1.42 (.056)     |           |
|                         | 5.21 by 0.51 (.205 by .020) | 19002-0019  | 19002-0020 | 19002-0059  |        |             | 20.3 (.800) | 3.05 (.120)                          | 1.42 (.056)     |           |
|                         | 6.35 by 0.81 (.250 by .032) | 19002-0021  | 19002-0022 | 19002-0023  |        |             | 20.3 (.800) | 3.05 (.120)                          | 1.42 (.056)     |           |
|                         | 2.79 by 0.51 (.110 by .020) | 19002-0013  | 19002-0014 | 19002-0015  |        |             | 20.3 (.800) | 3.05 (.120)                          | 1.42 (.056)     |           |
|                         | 2.79 by 0.81 (.110 by .032) | 19002-0016  | 19002-0017 | 19002-0018  |        |             | 20.3 (.800) | 3.05 (.120)                          | 1.42 (.056)     |           |
|                         | 6.35 by 0.81 (.250 by .032) | 19002-0024  | 19002-0025 | 19002-0027  |        |             | 22.6 (.890) | 3.94 (.155)                          | 2.08 (.082)     |           |
| 14-16 (1.94-1.23)       | 4.75 by 0.51 (.187 by .020) | 19002-0028  | 19002-0029 | 19002-0030  | Blue   | 0.41 (.016) | 20.3 (.800) | 3.94 (.155)                          | 2.08 (.082)     |           |
|                         | 4.75 by 0.81 (.187 by .032) | 19002-0031  | 19002-0032 | 19002-0033  |        |             | 20.3 (.800) | 3.94 (.155)                          | 2.08 (.082)     |           |
|                         | 5.21 by 0.51 (.205 by .020) | 19002-0040  | 19002-0048 | 19002-0041  |        |             | 20.3 (.800) | 3.94 (.155)                          | 2.08 (.082)     |           |
|                         | 6.35 by 0.81 (.250 by .032) | 19002-0042  | 19002-0043 | 19002-0061  |        |             | 20.3 (.800) | 3.94 (.155)                          | 2.08 (.082)     |           |
|                         | 2.79 by 0.51 (.110 by .020) | 19002-0034  | 19002-0035 | 19002-0036  |        |             | 20.3 (.800) | 3.94 (.155)                          | 2.08 (.082)     |           |
|                         | 2.79 by 0.81 (.110 by .032) | 19002-0037  | 19002-0038 | 19002-0039  |        |             | 20.3 (.800) | 3.94 (.155)                          | 2.08 (.082)     |           |
|                         | 6.35 by 0.81 (.250 by .032) | 19606-0005  | 19606-0006 | 19606-0004  |        |             | 25.7 (1.01) | 5.84 (.230)                          | 3.05 (.120)     |           |
| 10-12 (5.01-3.09)       | 6.35 by 0.81 (.250 by .032) |             |            |             | Yellow | 0.79 (.031) | 25.7 (1.01) | 5.84 (.230)                          | 3.05 (.120)     |           |

### Female—Expanded Flare/Oval Barrel

| Wire Range<br>AWG (mm²)                                              | Accepts Tab Size            | Order No.   |            |             | Color  | Barrel         | Stock       | Dimension   |                                      |                 | Lead-free |
|----------------------------------------------------------------------|-----------------------------|-------------|------------|-------------|--------|----------------|-------------|-------------|--------------------------------------|-----------------|-----------|
|                                                                      |                             | Loose Piece | Mylar Tape | Metal Strip |        |                |             | Length (A)  | Maximum Wire Insulation Diameter (D) | Barrel Dia. (E) |           |
| 16 + 16 (1.23)<br>18 + 18 (0.96)<br>20 + 20 (0.62)<br>22 + 22 (0.38) | 6.35 by 0.81 (.250 by .032) | *19600-1300 | 19600-1306 |             | Yellow | Oval           | 0.79 (.031) | 23.9 (.940) | 6.86/4.32 (.27/.17)                  | 2.90 (.114)     | Yes       |
|                                                                      | 4.75 by 0.51 (.187 by .020) | *19600-1302 | 19600-1307 |             |        |                |             | 21.8 (.860) | 6.86/4.32 (.27/.17)                  | 2.90 (.114)     |           |
|                                                                      | 4.75 by 0.81 (.187 by .032) | *19600-1304 | 19600-1308 |             |        |                |             | 21.8 (.860) | 6.86/4.32 (.27/.17)                  | 2.90 (.114)     |           |
| 10-12 (5.00-3.30)                                                    | 6.35 by 0.81 (.250 by .032) | 19002-0044  | 19002-0045 | 19002-0046  |        | Expanded Flare | 0.46 (.018) | 26.4 (1.04) | 6.22 (.245)                          | 3.66 (.144)     |           |

\*Note: MWID is oval for dual wire insertion

# Fully Insulated Quick Disconnects Couplers

## Features and Benefits

- Available 18 to 22 AWG through 10 to 12 AWG
- Splice can be connected and disconnected without damage to the nylon
- Fully insulated nylon couplers are precision engineered to allow male and female terminal to fit precisely together for a fully insulated in-line splice.

### Male

| Wire Range<br>AWG (mm²) | Tab Size                    | Order No.   |            | Color  | Stock       | Dimension    |                                      |                 | Lead-free |
|-------------------------|-----------------------------|-------------|------------|--------|-------------|--------------|--------------------------------------|-----------------|-----------|
|                         |                             | Loose Piece | Mylar Tape |        |             | Length (A)   | Maximum Wire Insulation Diameter (D) | Barrel Dia. (E) |           |
| 18-22 (0.96-0.38)       | 6.35 by 0.81 (.250 by .032) | 19004-0001  | 19004-0004 | Red    | 0.79 (.031) | 24.6 (.970)  | 3.68 (.145)                          | 1.42 (.056)     | Yes       |
| 14-16 (1.94-1.23)       |                             | 19004-0005  | 19004-0008 | Blue   |             | 24.6 (.970)  | 4.32 (.170)                          | 2.11 (.083)     |           |
| 10-12 (5.01-3.09)       |                             | 19004-0009  | 19004-0012 | Yellow |             | 28.4 (1.120) | 6.48 (.255)                          | 3.68 (.145)     |           |

### Female

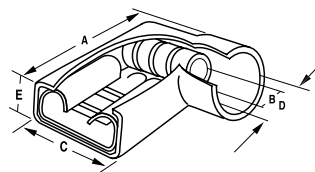
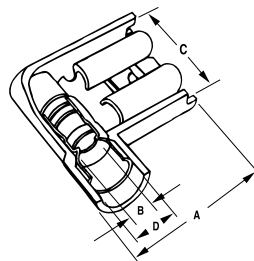
| Wire Range<br>AWG (mm²) | Accepts Tab Size            | Order No.   |            |              | Color  | Stock       | Dimension      |                                      |                 | Lead-free |
|-------------------------|-----------------------------|-------------|------------|--------------|--------|-------------|----------------|--------------------------------------|-----------------|-----------|
|                         |                             | Loose Piece | Mylar Tape | Molded Strip |        |             | Length (A)     | Maximum Wire Insulation Diameter (D) | Barrel Dia. (E) |           |
| 18-22 (0.96-0.38)       | 6.35 by 0.81 (.250 by .032) | 19005-0001  | 19005-0004 | 19005-0003   | Red    | 0.46 (.018) | 22.61 (.890)   | 4.19 (.165)                          | 2.11 (.083)     | Yes       |
| 14-16 (1.94-1.23)       |                             | 19005-0005  | 19005-0009 | 19005-0008   | Blue   |             | 22.61 (.890)   | 4.19 (.165)                          | 2.11 (.083)     |           |
| 10-12 (5.01-3.09)       |                             | 19005-0010  | 19005-0015 | 19005-0014   | Yellow |             | 26.416 (1.040) | 6.99 (.275)                          | 3.81 (.150)     |           |

# Quick Disconnects Fully Insulated Flag Terminals

## Features and Benefits

- Space saving design
- Available in insulated and uninsulated versions
- Because of the width, mylar mounted tape parts are double spaced

Avikrimp™ 



**Physical**  
Material: Terminal—Brass  
Insulation—Nylon  
Plating: Tin

| Wire Range<br>AWG (mm <sup>2</sup> ) | Accepts Tab Size            | Order No.   |            |             | Color  | Stock       | Dimension    |                            |             |                                      | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|-------------|--------|-------------|--------------|----------------------------|-------------|--------------------------------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Metal Strip |        |             | Length (A)   | Barrel Inside Diameter (B) | Width (C)   | Maximum Wire Insulation Diameter (D) |           |
| 18-22 (0.96-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19006-0001  | 19006-0003 | 19006-0004  | Red    | 0.41 (.016) | 15.75 (.620) | 1.70 (.067)                | 9.91 (.390) | 3.81 (.150)                          | Yes       |
| 14-16 (1.94-1.23)                    |                             | 19006-0011  | 19006-0013 | 19006-0014  | Blue   |             | 15.75 (.620) | 2.13 (.084)                |             | 4.32 (.170)                          |           |
| 10-12 (5.01-3.09)                    |                             | 19006-0018  | 19006-0020 | 19006-0070  | Yellow |             | 16.94 (.667) | 3.25 (.128)                |             | 6.22 (.245)                          |           |
| 18-22 (0.96-0.38)                    | 4.75 by 0.81 (.187 by .032) | 19006-0008  | 19006-0009 | 19006-0010  | Red    |             | 15.75 (.620) | 1.70 (.067)                |             | 3.81 (.150)                          |           |
| 14-16 (1.94-1.23)                    |                             | 19006-0017  | 19006-0018 | 19006-0024  | Blue   |             | 15.75 (.620) | 2.13 (.084)                |             | 4.32 (.170)                          |           |
| 18-22 (0.96-0.38)                    |                             | 19006-0005  | 19006-0006 | 19006-0007  | Red    |             | 15.75 (.620) | 1.70 (.067)                |             | 3.81 (.150)                          |           |
| 14-16 (1.94-1.23)                    | 4.75 by 0.51 (.187 by .020) | 19006-0015  | 19006-0016 | 19006-0023  | Blue   |             | 15.75 (.620) | 2.13 (.084)                |             | 4.32 (.170)                          |           |
|                                      |                             |             |            |             |        |             |              |                            |             |                                      |           |
|                                      |                             |             |            |             |        |             |              |                            |             |                                      |           |

## InsulKrimp™

| Wire Range<br>AWG (mm <sup>2</sup> ) | Accepts Tab Size            | Order No.   |            |             | Color  | Stock       | Dimension    |                            |             |                                      |             | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|-------------|--------|-------------|--------------|----------------------------|-------------|--------------------------------------|-------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Metal Strip |        |             | Length (A)   | Barrel Inside Diameter (B) | Width (C)   | Maximum Wire Insulation Diameter (D) | Height (E)  |           |
| 18-22 (0.96-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19007-0001  | 19007-0004 | 19007-0008  | Red    | 0.41 (.016) | 16.0 (.630)  | 1.70 (.067)                | 9.91 (.390) | 4.45 (.175)                          | 5.08 (.200) | Yes       |
| 14-16 (1.94-1.23)                    |                             | 19007-0021  | 19007-0024 | 19007-0028  | Blue   |             | 16.0 (.630)  | 2.26 (.089)                | 9.91 (.390) | 5.08 (.200)                          | 5.08 (.200) |           |
| 10-12 (5.01-3.09)                    |                             | 19007-0040  | 19007-0053 | 19007-0041  | Yellow |             | 16.94 (.667) | 3.23 (.127)                | 9.91 (.390) | 6.65 (.262)                          | 6.32 (.249) |           |
| 18-22 (0.96-0.38)                    | 4.75 by 0.81 (.187 by .032) | 19007-0015  | 19007-0016 | 19007-0020  | Red    |             | 16.0 (.630)  | 1.70 (.067)                | 9.91 (.390) | 4.45 (.175)                          | 5.08 (.200) |           |
| 14-16 (1.94-1.23)                    |                             | 19007-0035  | 19007-0036 | 19007-0039  | Blue   |             | 16.0 (.630)  | 2.26 (.089)                | 9.91 (.390) | 5.08 (.200)                          | 5.08 (.200) |           |
| 18-22 (0.96-0.38)                    |                             | 19007-0009  | 19007-0010 | 19007-0014  | Red    |             | 16.0 (.630)  | 1.70 (.067)                | 9.91 (.390) | 4.45 (.175)                          | 5.08 (.200) |           |
| 14-16 (1.94-1.23)                    | 4.75 by 0.51 (.187 by .020) | 19007-0029  | 19007-0030 | 19007-0034  | Blue   |             | 16.0 (.630)  | 2.26 (.089)                | 9.91 (.390) | 5.08 (.200)                          | 5.08 (.200) |           |
|                                      |                             |             |            |             |        |             |              |                            |             |                                      |             |           |
|                                      |                             |             |            |             |        |             |              |                            |             |                                      |             |           |

## Expanded Flare

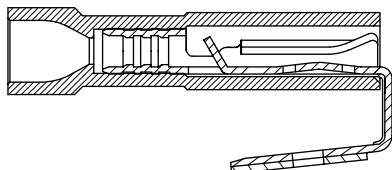
| Wire Range<br>AWG (mm <sup>2</sup> ) | Accepts Tab Size            | Order No.   |            |             | Color | Stock       | Dimension   |                            |             |                                      | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|-------------|-------|-------------|-------------|----------------------------|-------------|--------------------------------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Metal Strip |       |             | Length (A)  | Barrel Inside Diameter (B) | Width (C)   | Maximum Wire Insulation Diameter (D) |           |
| 18-22 (0.96-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19007-0005  | 19007-0006 | 19007-0007  | Red   | 0.41 (.016) | 16.8 (.660) | 1.70 (.067)                | 9.91 (.390) | 6.10 (.240)                          | Yes       |
| 14-16 (1.94-1.23)                    |                             | 19007-0025  | 19007-0026 | 19007-0027  | Blue  |             |             | 2.26 (.089)                |             | 6.73 (.265)                          |           |
| 18-22 (0.96-0.38)                    |                             | 19007-0017  | 19007-0018 | 19007-0019  | Red   |             |             | 1.70 (.067)                |             | 6.10 (.240)                          |           |
| 14-16 (1.94-1.23)                    | 4.75 by 0.81 (.187 by .032) | 19007-0037  | 19007-0038 | 19007-0060  | Blue  |             |             | 2.26 (.089)                |             | 6.73 (.265)                          |           |
| 18-22 (0.96-0.38)                    |                             | 19007-0011  | 19007-0012 | 19007-0013  | Red   |             |             | 1.70 (.067)                |             | 6.10 (.240)                          |           |
| 14-16 (1.94-1.23)                    |                             | 19007-0031  | 19007-0032 | 19007-0033  | Blue  |             |             | 2.26 (.089)                |             | 6.73 (.265)                          |           |
|                                      | 4.75 by 0.51 (.187 by .020) |             |            |             |       |             |             |                            |             |                                      |           |
|                                      |                             |             |            |             |       |             |             |                            |             |                                      |           |
|                                      |                             |             |            |             |       |             |             |                            |             |                                      |           |

Note: Expanded flare not illustrated.

## Standard Flare with 94V-0 Nylon

| Wire Range<br>AWG (mm <sup>2</sup> ) | Accepts Tab Size            | Order No.   |            |             | Color  | Stock       | Dimension    |                            |             |                                      |             | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|-------------|--------|-------------|--------------|----------------------------|-------------|--------------------------------------|-------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Metal Strip |        |             | Length (A)   | Barrel Inside Diameter (B) | Width (C)   | Maximum Wire Insulation Diameter (D) | Height (E)  |           |
| 18-22 (0.96-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19007-0064  | 19007-0065 | 19007-0066  | Red    | 0.41 (.016) | 16.00 (.630) | 1.70 (.067)                | 9.91 (.390) | 4.47 (.176)                          | 5.00 (.197) | Yes       |
|                                      | 4.75 by 0.51 (.187 by .020) | 19007-0067  | 19007-0068 | 19007-0069  |        |             | 16.00 (.630) | 1.70 (.067)                |             | 4.47 (.176)                          | 4.98 (.196) |           |
|                                      | 4.75 by 0.51 (.187 by .020) | 19007-0070  | 19007-0071 | 19007-0072  |        |             | 16.00 (.630) | 1.70 (.067)                |             | 4.47 (.176)                          | 4.98 (.196) |           |
| 14-16 (1.94-1.23)                    | 6.35 by 0.81 (.250 by .032) | 19007-0073  | 19007-0074 | 19007-0075  | Blue   |             | 16.00 (.630) | 2.26 (.089)                |             | 5.08 (.200)                          | 5.00 (.197) |           |
|                                      | 4.75 by 0.51 (.187 by .020) | 19007-0076  | 19007-0077 | 19007-0078  |        |             | 16.00 (.630) | 2.26 (.089)                |             | 5.08 (.200)                          | 4.98 (.196) |           |
|                                      | 4.75 by 0.51 (.187 by .020) | 19007-0079  | 19007-0080 | 19007-0081  |        |             | 16.00 (.630) | 2.26 (.089)                |             | 5.08 (.200)                          | 4.98 (.196) |           |
| 10-12 (5.01-3.09)                    | 6.35 by 0.81 (.250 by .032) | 19007-0082  | 19007-0083 | 19007-0084  | Yellow |             | 17.3 (.682)  | 3.23 (.127)                |             |                                      | 6.60 (.260) |           |

# Fully Insulated Quick Disconnects Piggyback



## Features and Benefits

- Funnel entrance into electrical barrel eliminates wire strand fold back and increase crimping rates
- Nylon sleeve protects against vibration damage by preventing wire flex at the crimp point

## Physical

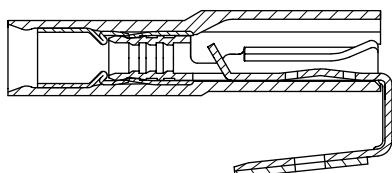
Material: Terminal—Brass  
Insulation—Nylon  
Plating: Tin

## InsulKrimp™ Standard Flare

| Wire Range<br>AWG (mm <sup>2</sup> ) | Tab Size                    | Order No.   |            | Maximum Wire<br>Insulation Diameter | Width       | Length        | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|-------------------------------------|-------------|---------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape |                                     |             |               |           |
| 18-22 AWG (0.96-0.38)                | 6.35 by 0.81 (.250 by .032) | 19013-0025  | 19013-0026 | 3.50 (.138)                         | 9.65 (.380) | 21.84 (.860)  | Yes       |
| 14-16 AWG (1.94-1.23)                |                             | 19013-0029  | 19013-0030 | 4.04 (.159)                         |             | 21.84 (.860)  |           |
| 10-12 AWG (5.01-3.09)                |                             | 19013-0033  | 19013-0034 | 7.03 (.277)                         |             | 26.16 (1.030) |           |

## InsulKrimp™ Expanded Flare

| Wire Range<br>AWG (mm <sup>2</sup> ) | Tab Size                    | Order No.   |            | Maximum Wire<br>Insulation Diameter | Width       | Length        | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|-------------------------------------|-------------|---------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape |                                     |             |               |           |
| 18-22 AWG (0.96-0.38)                | 6.35 by 0.81 (.250 by .032) | 19013-0027  | 19013-0028 | 5.82 (.229)                         | 9.65 (.380) | 23.88 (0.94)  | Yes       |
| 14-16 AWG (1.94-1.23)                |                             | 19013-0031  | 19013-0032 | 6.58 (.259)                         |             | 23.88 (0.94)  |           |
| 10-12 AWG (5.01-3.09)                |                             | 19013-0033  | 19013-0034 | 7.03 (.277)                         |             | 1.030 (26.16) |           |



## Features and Benefits

- Avikrimp provides a metal insulation support sleeve for superior strain relief
- Fulfills the double crimp (support) requirements of VDE and other DIN specifications

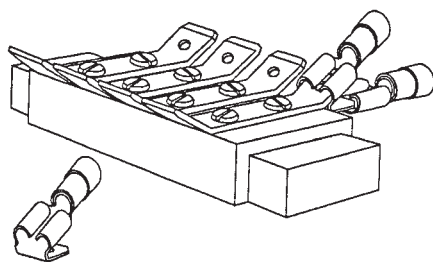
## Physical

Material: Terminal—Brass  
Ferrule—Brass  
Insulation—Nylon  
Plating: Terminal—Tin  
Ferrule—Tin

## Avikrimp™

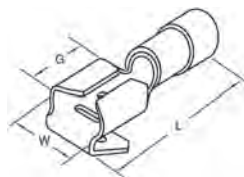
| Wire Range<br>AWG (mm <sup>2</sup> ) | Tab Size                    | Order No.   |            | Maximum Wire<br>Insulation Diameter | Width       | Length       | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|-------------------------------------|-------------|--------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape |                                     |             |              |           |
| 18-22 AWG (0.96-0.38)                | 6.35 by 0.81 (.250 by .032) | 19602-0004  | 19602-0010 | 2.95 (.116)                         | 9.65 (.380) | 22.35 (0.88) | Yes       |
| 14-16 AWG (1.94-1.23)                |                             | 19602-0005  | 19602-0011 | 3.53 (.139)                         |             | 22.35 (0.88) |           |
| 10-12 AWG (5.01-3.09)                |                             | 19602-0006  | 19602-0012 | 5.87 (.231)                         |             | 25.91 (1.02) |           |

## Quick Disconnects Piggyback



### Features and Benefits

- Allows another quick disconnect to be connected to the tab
- Use when multiple connections are required and there is a limited number of male tabs
- Funnel entrance into electrical barrel eliminates wire strand fold back and increases crimping rates
- PVC sleeve protects against vibration damage by preventing wire flex at the crimp point



### Physical

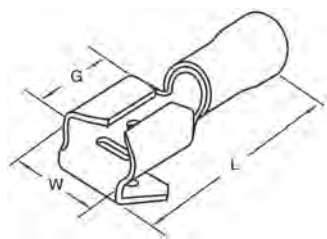
Material: Terminal—Brass

Insulation—PVC

Plating: Tin

### InsulKrimp™

| Wire Range<br>AWG (mm²) | Tab Size                    | Order No.   |            | Maximum Wire<br>Insulation Diameter | Dimension      |                    |             | Lead-free |
|-------------------------|-----------------------------|-------------|------------|-------------------------------------|----------------|--------------------|-------------|-----------|
|                         |                             | Loose Piece | Mylar Tape |                                     | Tab Length (G) | Overall Length (L) | Width (W)   |           |
| 18-22 (0.96-0.38)       | 6.35 by 0.81 (.250 by .032) | 19011-0035  | 19011-0036 | 2.79 (.110)                         | 7.90 (.310)    | 22.10 (.870)       | 7.60 (.301) | Yes       |
| 14-16 (1.94-1.23)       |                             | 19011-0037  | 19011-0038 | 3.56 (.140)                         |                | 25.65 (1.010)      |             |           |
| 10-12 (5.01-3.09)       |                             | 19011-0039  | 19011-0040 | 5.71 (.225)                         |                |                    |             |           |



### Features and Benefits

- Allows another quick disconnect to be connected to the tab
- Use when multiple connections are required and there is a limited number of male tabs
- Avikrimp provides a metal conductor support sleeve for superior strain relief
- Fulfills the double crimp (support) requirements of VDE and other DIN specifications

### Physical

Material: Terminal—Brass

Ferrule—Brass

Insulation—Nylon

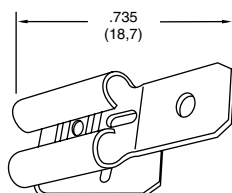
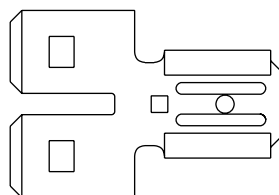
Plating: Terminal—Tin

Ferrule—Tin

### Avikrimp™

| Wire Range<br>AWG (mm²) | Tab Size                    | Order No.   |            | Maximum Wire<br>Insulation Diameter | Dimension      |                    |             | Lead-free |
|-------------------------|-----------------------------|-------------|------------|-------------------------------------|----------------|--------------------|-------------|-----------|
|                         |                             | Loose Piece | Mylar Tape |                                     | Tab Length (G) | Overall Length (L) | Width (W)   |           |
| 18-22 (0.96-0.38)       | 6.35 by 0.81 (.250 by .032) | 19012-0029  | 19012-0030 | 2.79 (.110)                         | 7.90 (.310)    | 22.10 (.870)       | 7.60 (.301) | Yes       |
| 14-16 (1.94-1.23)       |                             | 19012-0031  | 19012-0032 | 3.56 (.140)                         |                | 26.16 (1.030)      |             |           |
| 10-12 (5.01-3.09)       |                             | 19012-0033  | 19012-0034 | 5.71 (.225)                         |                |                    |             |           |

## Tab Adapters



### Features and Benefits

- Make two tabs from one when an add-on circuit is needed

| Tab Size                  | Order No.  |            | Lead-free |
|---------------------------|------------|------------|-----------|
|                           | Unplated   | Tin-Plated |           |
| 6.35 (.250) x .813 (.032) | 19043-0001 | 19043-0020 | Yes       |
| 4.75 (.187) x .508 (.020) | 19043-0009 |            |           |

### Physical

Material: Brass

Plating: See table

### Features and Benefits

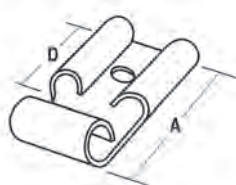
- Two male blade angles: 10° bend-up; 120° bend-back
- 6.35mm (.250") tab size converts one Power Block 6.35mm (.250") tab to two tabs

### Physical

Material: Brass

| Tab Size                  | Order No.  | Lead-free |
|---------------------------|------------|-----------|
| 6.35 (.250) x .813 (.032) | 19043-0010 | Yes       |

# Quick Disconnects Uninsulated Flag Terminals



**Physical**  
Material: Brass  
Plating: Tin

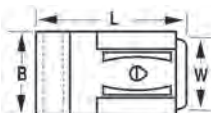
## Krimptite™

| Wire Range<br>AWG (mm <sup>2</sup> ) | Accepts Tab Size            | Order No.   |            | Dimension          |                | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|--------------------|----------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Overall Length (A) | Tab Length (D) |           |
| 18-22 (0.96-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19008-0006  | 19008-0007 | 13.69 (.539)       | 7.92 (.312)    | Yes       |
| 14-16 (1.94-1.23)                    |                             | 19008-0024  | 19008-0027 | 13.69 (.539)       | 7.92 (.312)    |           |
| 18-22 (0.96-0.38)                    | 4.75 by 0.81 (.187 by .032) | 19008-0002  |            | 13.69 (.539)       | 6.53 (.257)    |           |
| 14-16 (1.94-1.23)                    |                             | 19008-0020  |            | 13.69 (.539)       | 6.53 (.257)    |           |
| 18-22 (0.96-0.38)                    | 4.75 by 0.51 (.187 by .020) | 19008-0001  | 19008-0004 | 13.69 (.539)       | 6.53 (.257)    |           |
| 14-16 (1.94-1.23)                    |                             | 19008-0019  | 19008-0022 | 13.69 (.539)       | 6.53 (.257)    |           |



## VibraKrimp™ with Wire Grip

| Wire Range<br>AWG (mm <sup>2</sup> ) | Accepts Tab Size            | Order No.   |            | Dimension          |                | Maximum<br>Wire Insulation<br>Diameter | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|--------------------|----------------|----------------------------------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Overall Length (A) | Tab Length (D) |                                        |           |
| 18-22 (0.96-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19009-0001  | 19009-0002 | 14.27 (.562)       | 7.75 (.305)    | 3.43 (.135)                            | Yes       |
| 14-16 (1.94-1.23)                    |                             | 19009-0010  | 19009-0011 | 14.27 (.562)       | 7.75 (.305)    | 3.68 (.145)                            |           |
| 18-22 (0.96-0.38)                    | 4.75 by 0.81 (.187 by .032) | 19009-0004  |            | 14.27 (.562)       | 6.35 (.250)    | 3.43 (.135)                            |           |
| 14-16 (1.94-1.23)                    |                             | 19009-0013  | 19009-0014 | 14.27 (.562)       | 6.35 (.250)    | 3.68 (.145)                            |           |
| 18-22 (0.96-0.38)                    | 4.75 by 0.51 (.187 by .020) | 19009-0003  | 19009-0006 | 14.27 (.562)       | 6.35 (.250)    | 3.43 (.135)                            |           |
| 14-16 (1.94-1.23)                    |                             | 19009-0012  | 19009-0015 | 14.27 (.562)       | 6.35 (.250)    | 3.68 (.145)                            |           |

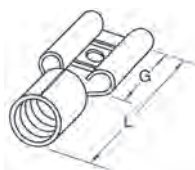


## Krimptite™ Economical, No Vibration Support

| Wire Range<br>AWG (mm <sup>2</sup> ) | Tab Size                    | Order No.   |            | Dimension          |             | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|--------------------|-------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Overall Length (L) | Width (W)   |           |
| 12-14 (3.09-1.94)                    | 6.35 by 0.81 (.250 by .032) | 19008-0038  | 19008-0039 | 15.59 (.614)       | 7.77 (.306) | Yes       |

Note: Fits hermetic tabs

# Temp-Terms Quick Disconnects



**Physical**  
Material: Steel  
Plating: Nickel

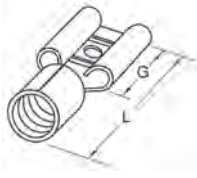
## 483°C (900°F)—Female

| Wire Range<br>AWG (mm <sup>2</sup> ) | Accepts Tab Size            | Order No.  | Tab Length (G) | Overall Length (L) | Width (W)   |
|--------------------------------------|-----------------------------|------------|----------------|--------------------|-------------|
| 14-16 (1.94-1.23)                    | 4.75 by 0.51 (.187 by .020) | 19203-0373 | 6.40 (.252)    | 14.92 (.587)       | 6.06 (.239) |
|                                      | 6.35 by 0.81 (.250 by .032) | 19203-0390 | 7.80 (.307)    | 16.92 (.666)       | 7.66 (.302) |
|                                      |                             | 19203-0375 | 8.40 (.331)    | 14.92 (.587)       |             |
| 10-12 (5.01-3.09)                    | 6.35 by 0.51 (.250 by .020) | 19203-0380 |                | 15.72 (.619)       |             |
|                                      | 6.35 by 0.81 (.250 by .032) | 19203-0379 |                | 17.92 (.706)       |             |

## 483°C (900°F)—Male

| Wire Range<br>AWG (mm <sup>2</sup> ) | Tab Size                    | Order No.  | Tab Length (G) | Overall Length (L) | Width (W) |
|--------------------------------------|-----------------------------|------------|----------------|--------------------|-----------|
| 14-16 (1.94-1.23)                    | 6.35 by 0.81 (.250 by .032) | 19203-0374 |                | 18.32 (.721)       |           |

# Tape-Fed and Loose Piece Female Quick Disconnects



You can order the Quick Disconnect terminals charted here in either loose piece or tape-mounted form. Loose piece versions are individually fed into the dies of manual and powered hand crimping tools. Tape-fed versions are the same terminals mounted on mylar tape for automatic feeding into air- or electric-powered bench crimping presses. Tape-fed terminals are ideal for applications where there are too many terminals for hand tool crimping and too few for strip press crimping. All loose piece and tape-fed terminals have a fully Tin-plated Brass construction with closed electrical barrels.

## Features and Benefits

- Quality, one-piece design
- Most economical style and has the greatest variety of uses when special features are not required

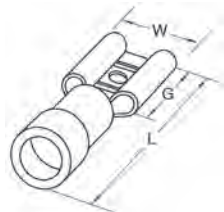
## Physical

Material: Brass

Plating: Tin

## Krimptite™ Butted Seam

| Wire Range<br>AWG (mm <sup>2</sup> ) | Accepts Tab Size            | Order No.   |            | Dimension      |                    | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|----------------|--------------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Tab Length (G) | Overall Length (L) |           |
| 18-22 (0.96-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19016-0009  | 19016-0010 | 7.87 (.310)    | 16.70 (.658)       | Yes       |
| 14-16 (1.94-1.23)                    |                             | 19016-0111  | 19016-0043 |                | 16.26 (.640)       |           |
| 12-14 (3.09-1.94)                    |                             | 19016-0085  | 19016-0086 |                | 16.70 (.658)       |           |
| 10-12 (5.01-3.09)                    |                             | 19016-0069  | 19016-0070 |                | 17.80 (.700)       |           |
| 24-26 (0.22-0.13)                    | 4.75 by 0.81 (.187 by .032) | 19016-0099  |            | 6.35 (.250)    | 13.97 (.550)       |           |
| 18-22 (0.96-0.38)                    |                             | 19016-0006  | 19016-0007 |                | 14.73 (.580)       |           |
| 14-16 (1.94-1.23)                    |                             | 19016-0040  | 19016-0041 |                | 14.73 (.580)       |           |
| 12-14 (3.09-1.94)                    |                             | 19016-0082  | 19016-0083 |                | 14.73 (.580)       |           |
| 24-26 (0.22-0.13)                    | 4.75 by 0.51 (.187 by .020) | 19016-0098  | 19016-0100 |                | 13.97 (.550)       |           |
| 18-22 (0.96-0.38)                    |                             | 19016-0005  | 19016-0008 |                | 14.73 (.580)       |           |
| 14-16 (1.94-1.23)                    |                             | 19016-0039  | 19016-0042 |                | 14.73 (.580)       |           |
| 12-14 (3.09-1.94)                    |                             | 19016-0081  | 19016-0084 |                | 14.73 (.580)       |           |
| 14-16 (1.94-1.23)                    | 5.21 by 0.81 (.205 by .032) | 19016-0046  | 19016-0096 |                | 13.97 (.550)       |           |
| 18-22 (0.96-0.38)                    |                             | 19016-0110  | 19016-0013 |                | 13.97 (.550)       |           |
| 14-16 (1.94-1.23)                    |                             | 19016-0045  | 19016-0047 |                | 13.46 (.530)       |           |
| 24-26 (0.22-0.13)                    |                             | 19016-0112  | 19016-0097 |                | 14.48 (.570)       |           |
| 18-22 (0.96-0.38)                    | 2.79 by 0.81 (.110 by .032) | 19016-0003  | 19016-0004 |                | 14.48 (.570)       |           |
| 14-16 (1.94-1.23)                    |                             | 19016-0037  | 19016-0038 |                | 13.46 (.530)       |           |
| 24-26 (0.22-0.13)                    |                             | 19016-0075  | 19016-0076 |                | 14.48 (.570)       |           |
| 18-22 (0.96-0.38)                    |                             | 19016-0001  | 19016-0002 |                | 14.48 (.570)       |           |
| 14-16 (1.94-1.23)                    | 2.79 by 0.51 (.110 by .020) | 19016-0035  | 19016-0036 |                | 14.48 (.570)       |           |



## Features and Benefits

- Funnel entrance into electrical barrel eliminates wire strand fold back and increases crimping rates
- PVC sleeve protects against vibration damage by preventing wire flex at the crimp point

## Physical

Material: Terminal—Brass

Insulation—PVC

Plating: Tin

## InsulKrimp™

| Wire Range<br>AWG (mm <sup>2</sup> ) | Tab Size                    | Order No.   |            | Dimension      |                    | Maximum Wire<br>Insulation Diameter | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|----------------|--------------------|-------------------------------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Tab Length (G) | Overall Length (L) |                                     |           |
| 18-22 (0.96-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19017-0014  | 19017-0017 | 7.90 (.310)    | 22.35 (.880)       | 3.40 (.135)                         | Yes       |
| 14-16 (1.94-1.23)                    |                             | 19017-0037  | 19017-0041 |                | 22.35 (.880)       | 3.70 (.145)                         |           |
| 12-14 (3.09-1.94)                    |                             | 19017-0055  | 19017-0057 |                | 22.35 (.880)       | 4.40 (.175)                         |           |
| 10-12 (5.01-3.09)                    |                             | 19017-0047  | 19017-0050 |                | 25.40 (1.000)      | 5.60 (.225)                         |           |
| 18-22 (0.96-0.38)                    | 4.75 by 0.81 (.187 by .032) | 19017-0008  | 19017-0009 | 6.35 (.250)    | 20.00 (.789)       | 3.40 (.135)                         |           |
| 14-16 (1.94-1.23)                    |                             | 19017-0032  | 19017-0033 |                | 20.00 (.789)       | 3.70 (.145)                         |           |
| 12-14 (3.09-1.94)                    |                             | 19017-0052  | 19017-0025 |                | 20.00 (.789)       | 4.40 (.175)                         |           |
| 18-22 (0.96-0.38)                    |                             | 19017-0007  | 19017-0012 |                | 20.00 (.789)       | 3.40 (.135)                         |           |
| 14-16 (1.94-1.23)                    | 4.75 by 0.51 (.187 by .020) | 19017-0031  | 19017-0035 |                | 20.00 (.789)       | 3.70 (.145)                         |           |
| 12-14 (3.09-1.94)                    |                             | 19017-0051  | 19017-0054 |                | 20.00 (.789)       | 4.40 (.175)                         |           |
| 14-16 (1.94-1.23)                    |                             | 19017-0044  | 19017-0016 |                | 20.00 (.789)       | 3.70 (.145)                         |           |
| 18-22 (0.96-0.38)                    |                             | 19017-0018  | 19017-0003 |                | 20.00 (.789)       | 3.40 (.135)                         |           |
| 14-16 (1.94-1.23)                    | 5.21 by 0.81 (.205 by .032) | 19017-0043  | 19017-0046 |                | 20.00 (.789)       | 3.70 (.145)                         |           |
| 18-22 (0.96-0.38)                    |                             | 19017-0005  | 19017-0006 |                | 20.00 (.789)       | 3.40 (.135)                         |           |
| 14-16 (1.94-1.23)                    |                             | 19017-0028  | 19017-0029 |                | 20.00 (.789)       | 3.70 (.145)                         |           |

# Tape-Fed and Loose Piece Female Quick Disconnects



## Features and Benefits

- VibraKrimp provides a metal insulation support sleeve for strain relief
- Butted seam adds vibration support

## Physical

Material: Brass  
Plating: Tin

### VibraKrimp™

| Wire Range<br>AWG (mm²) | Accepts Tab Size            | Order No.   |            | Dimension      |                    | Insulation Diameter Range | Lead-free |
|-------------------------|-----------------------------|-------------|------------|----------------|--------------------|---------------------------|-----------|
|                         |                             | Loose Piece | Mylar Tape | Tab Length (G) | Overall Length (L) |                           |           |
| 18-22 (.096-.038)       | 6.35 by 0.81 (.250 by .032) | 19018-0005  | 19018-0006 | 7.90 (.310)    | 20.40 (.802)       | 1.50/3.20 (.060/.125)     | Yes       |
| 14-16 (1.94-1.23)       |                             | 19018-0014  | 19018-0015 |                | 20.40 (.802)       | 2.10/3.70 (.085/.145)     |           |
| 12-14 (3.09-1.94)       |                             | 19018-0024  | 19018-0025 |                | 20.40 (.802)       | 2.50/4.40 (.100/.175)     |           |
| 24-26 (0.22-0.13)       | 4.75 by 0.81 (.187 by .032) | 19018-0045  | 19018-0046 | 6.30 (.250)    | 16.60 (.655)       | 1.00/2.40 (.040/.095)     |           |
| 18-22 (.096-.038)       |                             | 19018-0002  | 19018-0003 |                | 17.30 (.682)       | 1.50/3.20 (.060/.125)     |           |
| 12-14 (3.09-1.94)       |                             | 19018-0022  | 19018-0023 |                | 17.30 (.682)       | 2.50/4.40 (.100/.175)     |           |
| 24-26 (0.22-0.13)       | 4.75 by 0.51 (.187 by .020) | 19018-0044  | 19018-0047 |                | 16.60 (.655)       | 1.00/2.40 (.040/.095)     |           |
| 18-22 (.096-.038)       |                             | 19018-0001  | 19018-0004 |                | 17.30 (.682)       | 1.50/3.20 (.060/.125)     |           |
| 14-16 (1.94-1.23)       |                             | 19018-0011  | 19018-0013 |                | 17.30 (.682)       | 2.20/3.70 (.085/.145)     |           |
| 24-26 (0.22-0.13)       | 2.79 by 0.81 (.110 by .032) | 19018-0020  | 19018-0048 |                | 16.60 (.655)       | 1.00/2.40 (.040/.095)     |           |
| 18-22 (.096-.038)       |                             | 19018-0008  | 19018-0009 |                | 17.30 (.682)       | 1.50/3.20 (.060/.125)     |           |
| 14-16 (1.94-1.23)       |                             | 19018-0017  | 19018-0018 |                | 17.30 (.682)       | 2.20/3.70 (.085/.145)     |           |
| 24-26 (0.22-0.13)       | 2.79 by 0.51 (.110 by .020) | 19018-0019  |            |                | 16.60 (.655)       | 1.00/2.40 (.040/.095)     |           |
| 18-22 (.096-.038)       |                             | 19018-0007  | 19018-0010 |                | 17.30 (.682)       | 1.50/3.20 (.060/.125)     |           |
| 14-16 (1.94-1.23)       |                             | 19018-0016  |            |                | 17.30 (.682)       | 2.20/3.70 (.085/.145)     |           |

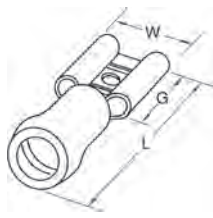


## Features and Benefits

- Avikrimp provides a metal insulation support sleeve for superior strain relief
- Fulfills the double crimp (support) requirements of VDE and other DIN specifications

## Physical

Material: Terminal—Brass  
Ferrule—Brass  
Insulation—Nylon  
Plating: Terminal—Tin  
Ferrule—Tin



### Avikrimp™

| Wire Range AWG (mm²) | Tab Size                    | Order No.   |            | Dimension      |                    | Maximum Wire<br>Insulation Diameter | Lead-free |
|----------------------|-----------------------------|-------------|------------|----------------|--------------------|-------------------------------------|-----------|
|                      |                             | Loose Piece | Mylar Tape | Tab Length (G) | Overall Length (L) |                                     |           |
| 18-22 (.096-.038)    | 6.35 by 0.81 (.250 by .032) | 19019-0012  | 19019-0013 | 7.90 (.310)    | 22.00 (.865)       | 2.90 (.115)                         | Yes       |
| 14-16 (1.94-1.23)    |                             | 19019-0031  | 19019-0033 |                | 22.00 (.865)       | 3.50 (.138)                         |           |
| 12-14 (3.09-1.94)    |                             | 19019-0052  | 19019-0054 |                | 22.00 (.865)       | 4.30 (.170)                         |           |
| 10-12 (5.01-3.09)    |                             | 19019-0037  | 19019-0038 |                | 25.70 (1.011)      | 5.70 (.225)                         |           |
| 24-26 (0.22-0.13)    | 4.75 by 0.81 (.187 by .032) | 19019-0044  | 19019-0045 | 6.30 (.250)    | 17.60 (.694)       | 1.80 (.072)                         |           |
| 18-22 (.096-.038)    |                             | 19019-0008  | 19019-0009 |                | 20.00 (.789)       | 2.90 (.115)                         |           |
| 14-16 (1.94-1.23)    |                             | 19019-0028  | 19019-0029 |                | 20.00 (.789)       | 3.50 (.138)                         |           |
| 12-14 (3.09-1.94)    |                             | 19019-0049  | 19019-0050 |                | 20.00 (.789)       | 4.30 (.170)                         |           |
| 24-26 (0.22-0.13)    | 4.75 by 0.51 (.187 by .020) | 19019-0043  | 19019-0046 |                | 17.60 (.694)       | 1.80 (.072)                         |           |
| 18-22 (.096-.038)    |                             | 19019-0006  | 19019-0011 |                | 20.00 (.789)       | 2.90 (.115)                         |           |
| 14-16 (1.94-1.23)    |                             | 19019-0027  | 19019-0030 |                | 20.00 (.789)       | 3.50 (.138)                         |           |
| 12-14 (3.09-1.94)    |                             | 19019-0048  | 19019-0051 |                | 20.00 (.789)       | 4.30 (.170)                         |           |
| 18-22 (.096-.038)    | 5.21 by 0.81 (.205 by .032) | 19019-0015  | 19019-0058 |                | 20.00 (.789)       | 2.90 (.115)                         |           |
| 14-16 (1.94-1.23)    |                             | 19019-0035  | 19019-0063 |                | 20.00 (.789)       | 3.50 (.138)                         |           |
| 18-22 (.096-.038)    | 5.21 by 0.51 (.205 by .020) | 19019-0014  | 19019-0016 |                | 20.00 (.789)       | 2.90 (.115)                         |           |
| 14-16 (1.94-1.23)    |                             | 19019-0034  | 19019-0064 |                | 20.00 (.789)       | 3.50 (.138)                         |           |
| 24-26 (0.22-0.13)    | 2.79 by 0.81 (.110 by .032) | 19019-0041  | 19019-0042 |                | 17.60 (.694)       | 1.80 (.072)                         |           |
| 18-22 (.096-.038)    |                             | 19019-0004  | 19019-0005 |                | 20.00 (.789)       | 2.90 (.115)                         |           |
| 14-16 (1.94-1.23)    |                             | 19019-0025  | 19019-0026 |                | 20.00 (.789)       | 3.50 (.138)                         |           |
| 24-26 (0.22-0.13)    | 2.79 by 0.51 (.110 by .020) | 19019-0039  | 19019-0040 |                | 17.60 (.694)       | 1.80 (.072)                         |           |
| 18-22 (.096-.038)    |                             | 19019-0001  | 19019-0003 |                | 20.00 (.789)       | 2.90 (.115)                         |           |
| 14-16 (1.94-1.23)    |                             | 19019-0022  | 19019-0024 |                | 20.00 (.789)       | 3.50 (.138)                         |           |

# Tape-Fed and Loose Piece Male Quick Disconnects

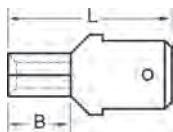


## Features and Benefits

- Quality one-piece design
- Most economical style and has the greatest variety of uses where special features are not required

## Physical

Material: Copper Alloy  
Plating: Zinc Chromate



Quick Disconnects

## Krimptite™ Economical, No Vibration Support

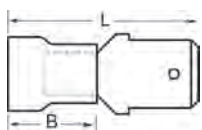
| Wire Range<br>AWG (mm <sup>2</sup> ) | Tab Size                    | Order No.   |            | Dimension         |                    | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|-------------------|--------------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Barrel Length (B) | Overall Length (L) |           |
| 18-22 (.096-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19022-0004  | 19022-0010 | 6.22 (.245)       | 18.34 (.722)       | Yes       |
| 14-16 (1.94-1.23)                    |                             | 19022-0018  | 19022-0026 | 6.50 (.254)       | 17.91 (.705)       |           |
| 10-12 (5.01-3.09)                    |                             | 19022-0015  | 19022-0017 | 6.50 (.254)       | 19.05 (.750)       |           |
| 18-22 (.096-0.38)                    | 4.75 by 0.51 (.187 by .020) | 19022-0006  | 19022-0009 | 6.50 (.254)       | 16.00 (.630)       |           |
| 14-16 (1.94-1.23)                    |                             | 19022-0022  | 19022-0024 | 6.50 (.254)       | 16.00 (.630)       |           |

## Features and Benefits

- VibraKrimp™ provides a metal insulation support sleeve for strain relief.

## Physical

Material: Terminal—Copper Alloy  
Ferrule—Brass  
Plating: Terminal—Tin  
Ferrule—Tin



## VibraKrimp™

| Wire Range<br>AWG (mm <sup>2</sup> ) | Tab Size                    | Order No.   |            | Dimension         |                    | Maximum Wire<br>Insulation Diameter | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|-------------------|--------------------|-------------------------------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Barrel Length (B) | Overall Length (L) |                                     |           |
| 18-22 (.096-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19024-0001  | 19024-0004 | 10.20 (.402)      | 21.77 (.857)       | 3.60 (.140)                         | Yes       |
| 14-16 (1.94-1.23)                    |                             | 19024-0007  | 19024-0009 | 10.20 (.402)      | 21.77 (.857)       | 4.30 (.170)                         |           |
| 14-16 (1.94-1.23)                    | 4.75 by 0.51 (.187 by .020) | 19024-0008  |            | 10.20 (.402)      | 19.25 (.758)       | 4.30 (.170)                         |           |

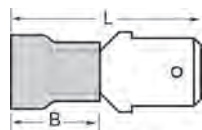


## Features and Benefits

- Funnel entrance into electrical barrel eliminates wire strand fold back and increases crimping rates
- PVC sleeve protects against vibration damage by preventing wire flex at the crimp point

## Physical

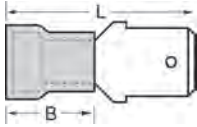
Material: Terminal—Copper Alloy  
Insulation—PVC  
Plating: Tin



## InsulKrimp™

| Wire Range<br>AWG (mm <sup>2</sup> ) | Tab Size                    | Order No.   |            | Dimension          |                    | Maximum Wire<br>Insulation Diameter | Lead-free |
|--------------------------------------|-----------------------------|-------------|------------|--------------------|--------------------|-------------------------------------|-----------|
|                                      |                             | Loose Piece | Mylar Tape | Barrell Length (B) | Overall Length (L) |                                     |           |
| 18-22 (.096-0.38)                    | 6.30 by 0.81 (.250 by .032) | 19023-0005  | 19023-0006 | 11.40 (.450)       | 23.20 (.915)       | 3.70 (.145)                         | Yes       |
| 14-16 (1.94-1.23)                    |                             | 19023-0012  | 19023-0014 | 11.40 (.450)       | 23.20 (.915)       | 4.40 (.175)                         |           |
| 10-12 (5.01-3.09)                    |                             | 19023-0008  | 19023-0009 | 13.80 (.545)       | 27.90 (1.10)       | 6.40 (.250)                         |           |
| 18-22 (.096-0.38)                    | 4.75 by 0.51 (.187 by .020) | 19023-0003  | 19023-0004 | 11.40 (.450)       | 20.80 (.820)       | 3.70 (.145)                         |           |
| 14-16 (1.94-1.23)                    |                             | 19023-0010  | 19023-0011 | 11.40 (.450)       | 20.80 (.820)       | 4.40 (.175)                         |           |

## Tape-Fed and Loose Piece Male Quick Disconnects



AviKrimp™



### Features and Benefits

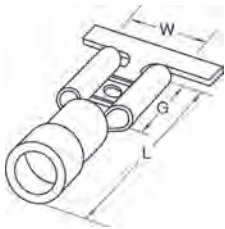
- Avikrimp provides a metal insulation support sleeve for superior strain relief
- Fulfills the double crimp (support) requirements of VDE and other DIN specifications

### Physical

Material: Terminal—Copper Alloy  
 Ferrule—Brass  
 Insulation—Nylon  
 Plating: Terminal—Zinc Chromate  
 Ferrule—Tin

| Wire Range<br>AWG (mm²) | Tab Size                    | Order No.   |            | Dimension         |                    | Maximum Wire<br>Insulation Diameter | Lead-free |
|-------------------------|-----------------------------|-------------|------------|-------------------|--------------------|-------------------------------------|-----------|
|                         |                             | Loose Piece | Mylar Tape | Barrel Length (B) | Overall Length (L) |                                     |           |
| 18-22 (.096-.038)       | 6.35 by 0.81 (.250 by .032) | 19025-0001  | 19025-0004 | 13.87 (.546)      | 25.40 (1.00)       | 6.30 (.140)                         | Yes       |
| 14-16 (1.94-1.23)       |                             | 19025-0007  | 19025-0010 | 13.87 (.546)      | 25.40 (1.00)       | 4.30 (.170)                         |           |
| 10-12 (5.01-3.09)       |                             | 19025-0005  | 19025-0006 | 16.99 (.669)      | 29.97 (1.18)       | 5.70 (.225)                         |           |
| 18-22 (.096-.038)       | 4.75 by 0.51 (.187 by .020) | 19025-0002  | 19025-0003 | 13.87 (.546)      | 20.83 (.820)       | 6.30 (.140)                         |           |
| 14-16 (1.94-1.23)       |                             | 19025-0008  | 19025-0009 | 13.87 (.546)      | 20.83 (.820)       | 4.30 (.170)                         |           |

## Metal Strip Female Quick Disconnects



### Features and Benefits

- T-shape carrier links each terminal and automatically delivers them into crimping press dies to boost production rates
- Funnel entrance into electrical barrel eliminates wire strand fold back and increase crimping rates
- PVC sleeve protects against vibration damage by preventing wire flex at the crimp point

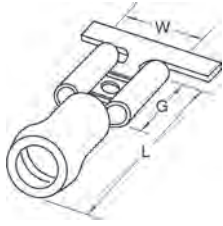
### Physical

Material: Brass  
 Material: Terminal—Brass  
 Insulation—PVC  
 Plating: Tin

InsulKrimp™

| Wire Range<br>AWG (mm²) | Tab Size                    | Tin-Plated<br>Order No. | Dimension      |                    | Maximum Wire<br>Insulation Diameter | Lead-free |
|-------------------------|-----------------------------|-------------------------|----------------|--------------------|-------------------------------------|-----------|
|                         |                             |                         | Tab Length (G) | Overall Length (L) |                                     |           |
| 14-16 (1.94-1.23)       | 6.35 by 0.81 (.250 by .032) | 19017-0074              | 7.90 (.310)    | 22.40 (.880)       | 3.70 (.145)                         | Yes       |
| 12-14 (3.09-1.94)       |                             | 19017-0107              |                |                    | 4.40 (.175)                         |           |
| 14-16 (1.94-1.23)       | 4.75 by 0.81 (.187 by .032) | 19017-0073              | 6.30 (.250)    | 19.80 (.780)       | 3.70 (.145)                         |           |
| 12-14 (3.09-1.94)       |                             | 19017-0059              |                |                    | 4.40 (.175)                         |           |
| 14-16 (1.94-1.23)       | 4.75 by 0.51 (.187 by .020) | 19017-0072              |                |                    | 3.70 (.145)                         |           |
| 12-14 (3.09-1.94)       |                             | 19017-0083              |                |                    | 4.40 (.175)                         |           |
| 14-16 (1.94-1.23)       | 2.79 by 0.81 (.110 by .032) | 19017-0071              |                |                    | 3.70 (.145)                         |           |
| 14-16 (1.94-1.23)       |                             | 19017-0070              |                |                    | 3.70 (.145)                         |           |

## Metal Strip Female Quick Disconnects



AviKrimp™



### Features and Benefits

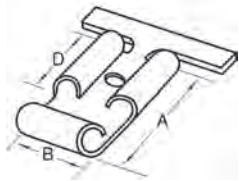
- Avikrimp provides a metal insulation support sleeve for superior strain relief
- Fulfills the double crimp (support) requirements of VDE and other DIN specifications

### Physical

Material: Terminal—Brass  
 Ferrule—Brass  
 Insulation—Nylon  
 Plating: Terminal—Tin  
 Ferrule—Tin

| Wire Range<br>AWG (mm <sup>2</sup> ) | Tab Size                    | Tin-Plated<br>Order No. | Dimension      |                    | Maximum Wire<br>Insulation Diameter | Lead-free |
|--------------------------------------|-----------------------------|-------------------------|----------------|--------------------|-------------------------------------|-----------|
|                                      |                             |                         | Tab Length (G) | Overall Length (L) |                                     |           |
| 18-22 (0.96-0.38)                    | 6.35 by 0.81 (.250 by .032) | 19019-0020              | 7.90 (.310)    | 22.00 (.865)       | 2.90 (.115)                         | Yes       |
| 14-16 (1.94-1.23)                    |                             | 19019-0036              |                | 22.00 (.865)       | 3.50 (.138)                         |           |
| 12-14 (3.09-1.94)                    |                             | 19019-0057              |                | 22.00 (.865)       | 4.30 (.170)                         |           |
| 24-26 (0.22-0.13)                    | 4.75 by 0.81 (.187 by .032) | 19019-0083              | 6.30 (.250)    | 17.60 (.694)       | 1.80 (.072)                         |           |
| 18-22 (0.96-0.38)                    |                             | 19019-0019              |                | 20.00 (.789)       | 2.90 (.115)                         |           |
| 14-16 (1.94-1.23)                    |                             | 19019-0080              |                | 20.00 (.789)       | 3.50 (.138)                         |           |
| 12-14 (3.09-1.94)                    |                             | 19019-0056              |                | 20.00 (.789)       | 4.30 (.170)                         |           |
| 24-26 (0.22-0.13)                    |                             | 19019-0082              |                | 17.60 (.694)       | 1.80 (.072)                         |           |
| 14-16 (1.94-1.23)                    | 4.75 by 0.51 (.187 by .020) | 19019-0079              |                | 20.00 (.789)       | 3.50 (.138)                         |           |
| 12-14 (3.09-1.94)                    |                             | 19019-0055              |                | 20.00 (.789)       | 4.30 (.170)                         |           |
| 24-26 (0.22-0.13)                    |                             | 19019-0081              |                | 17.60 (.694)       | 1.80 (.072)                         |           |
| 18-22 (0.96-0.38)                    | 2.79 by 0.81 (.110 by .032) | 19019-0075              |                | 20.00 (.789)       | 2.90 (.115)                         |           |
| 24-26 (0.22-0.13)                    | 2.79 by 0.51 (.110 by .020) | 19019-0047              |                | 17.60 (.694)       | 1.80 (.072)                         |           |

## Metal Strip Quick Disconnects Uninsulated Female Flag Terminals



Krimptite™



### Features and Benefits

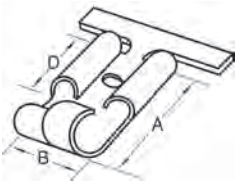
- Quality, one-piece design
- The most economical style has the greatest variety of uses where special features are not required

### Physical

Material: Brass  
 Plating: Tin

| Wire Range<br>AWG (mm <sup>2</sup> ) | Tab Size                    | Order No.  | Dimension             |                      |                   | Lead-free |
|--------------------------------------|-----------------------------|------------|-----------------------|----------------------|-------------------|-----------|
|                                      |                             |            | Overall Length<br>(A) | Barrel Length<br>(B) | Tab Length<br>(D) |           |
| 18-22 (0.96-0.38)                    | 6.30 by 0.80 (.250 by .032) | 19008-0013 | 13.70 (.539)          | 7.90 (.312)          | 7.90 (.312)       | Yes       |
|                                      | 4.70 by 0.80 (.187 by .032) | 19008-0009 |                       |                      | 7.90 (.312)       |           |
|                                      | 4.70 by 0.50 (.187 by .020) | 19008-0008 |                       |                      | 6.50 (.257)       |           |
| 14-16 (1.94-1.23)                    | 6.30 by 0.80 (.250 by .032) | 19008-0031 |                       |                      | 7.90 (.312)       |           |
|                                      | 4.70 by 0.80 (.187 by .032) | 19008-0029 |                       |                      | 6.50 (.257)       |           |
|                                      | 4.70 by 0.50 (.187 by .020) | 19008-0028 |                       |                      | 6.50 (.257)       |           |

# Flag Terminal Quick Disconnects



VibraKrimp™



**Features and Benefits**  
 ■ VibraKrimp™ provides a metal insulation support sleeve for strain relief

**Physical**  
 Material: Brass  
 Plating: Tin

| Wire Range<br>AWG (mm²) | Tab Size                    | Order No.  | Dimension             |                      |                   | Maximum Wire<br>Insulation<br>Diameter | Lead-free |
|-------------------------|-----------------------------|------------|-----------------------|----------------------|-------------------|----------------------------------------|-----------|
|                         |                             |            | Overall Length<br>(A) | Barrel Length<br>(B) | Tab Length<br>(D) |                                        |           |
| 18-22 (0.80-0.35)       | 6.35 by 0.81 (.250 by .032) | 19009-0007 | 14.30 (.562)          | 9.80 (.385)          | 7.70 (.305)       | 3.40 (.135)                            | Yes       |
|                         | 4.75 by 0.81 (.187 by .032) | 19009-0009 |                       |                      | 6.30 (.250)       | 3.40 (.135)                            |           |
|                         | 4.75 by 0.51 (.187 by .020) | 19009-0008 |                       |                      | 6.30 (.250)       | 3.40 (.135)                            |           |
| 14-16 (2.00-1.30)       | 6.35 by 0.81 (.250 by .032) | 19009-0016 |                       |                      | 7.70 (.305)       | 3.70 (.145)                            |           |
|                         | 4.75 by 0.81 (.187 by .032) | 19009-0018 |                       |                      | 6.30 (.250)       | 3.70 (.145)                            |           |
|                         | 4.75 by 0.51 (.187 by .020) | 19009-0017 |                       |                      | 6.30 (.250)       | 3.70 (.145)                            |           |
|                         |                             |            |                       |                      |                   |                                        |           |

## Quick Disconnect Terminals For PC Board

Molex offers a large selection of Standard Printed Circuit Board-Mountable quick disconnect terminals. Some products offer a tab support mounting feature providing increased mounting reliability and terminal strength. Products are available as strip applied and loose piece. All products can be easily inserted into printed circuit boards using widely available, industry standard bench-type, and fully-automated XY insertion tooling.



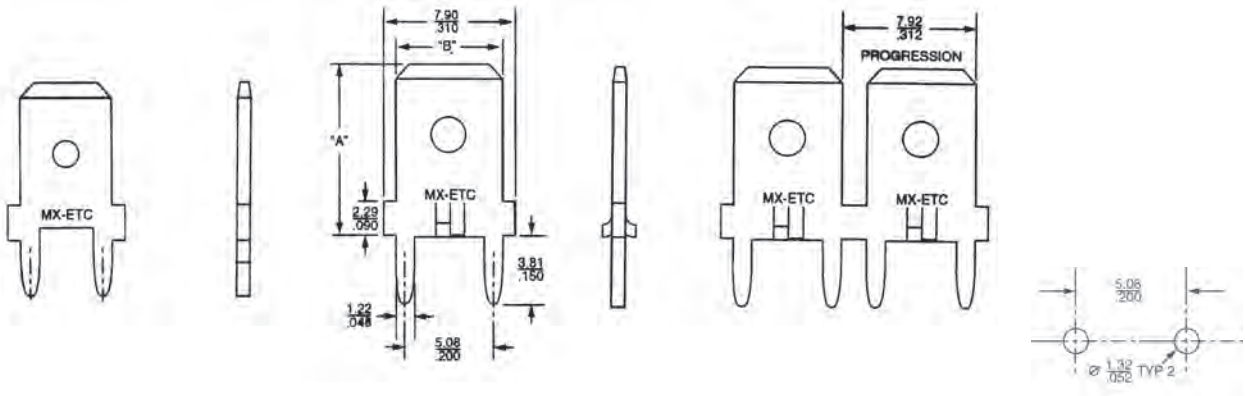
Molex PC Board Quick Disconnect terminals are available in tab sizes ranging from 2.79 by 0.51mm (.110 by .020") to 6.35 by 0.81mm (.250 by .032"). Products are available in both vertical and right angle mounting configurations. All products are manufactured to NEMA specifications and are UL and CSA recognized.

### Physical

Material: Brass

Thickness: 0.813mm (.032")

Plating: Tin 3.81μm (150μ") over 1.27μm (50μ") Nickel min. thickness



Recommended PCB Hole Layout

| Order No.  | Carrier | Tab Support | Dimension                    |              | Tab Thickness | Lead-free |
|------------|---------|-------------|------------------------------|--------------|---------------|-----------|
|            |         |             | Mounted Height (A)           | Tab Size (B) |               |           |
| 19705-4001 | Loose   | Yes         | 14.20 (.560)                 | 6.35 (.250)  | 0.81 (.032)   | Yes       |
| 19705-4003 | Strip   |             |                              |              |               |           |
| 19705-4201 | Loose   |             |                              |              |               |           |
| 19705-4203 | Strip   | No          | 10.30 (.405)<br>10.30 (.405) | 4.75 (.187)  | 0.81 (.032)   |           |
| 19705-4301 | Loose   |             |                              |              |               |           |
| 19705-4303 | Strip   |             |                              |              |               |           |
| 19705-4101 | Loose   | Yes         | 14.20 (.560)                 |              | 0.51 (.020)   |           |
| 19705-4103 | Strip   |             |                              |              |               |           |
| 19708-4001 | Loose   | No          | 9.14 (.360)                  |              |               |           |
| 19708-4003 | Strip   |             |                              |              |               |           |
| 19708-4011 | Loose   |             |                              |              |               |           |
| 19708-4013 | Strip   | Yes         | .345 (8.77)                  |              | 0.51 (.020)   |           |
| 19708-4023 | Strip   |             |                              |              |               |           |
| 19708-4033 |         |             |                              |              |               |           |

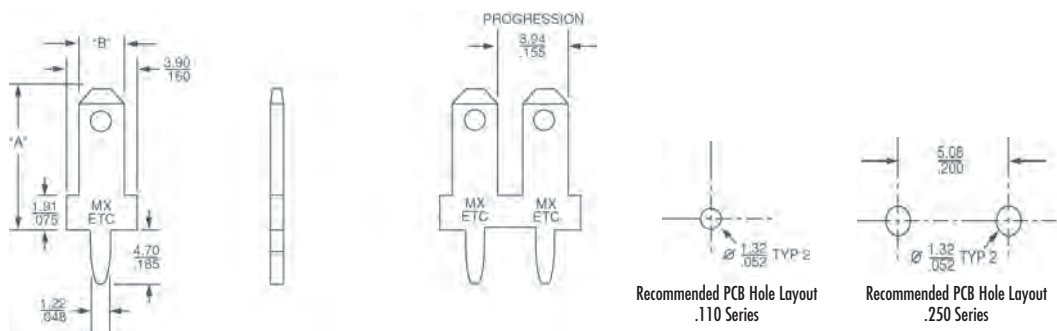
## Quick Disconnect Terminals For PC Board Vertical Tab Size—2.79mm (.110")

### Physical

Material: Brass

Thickness: 0.51mm (.020")

Plating: Tin 3.81μm (150μ") over 1.27μm (50μ") Nickel min. thickness



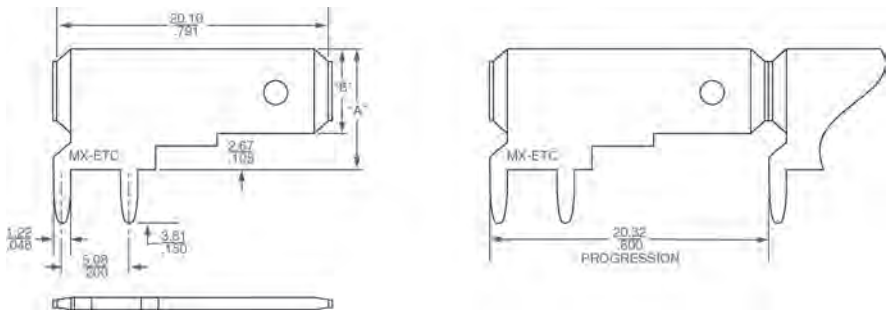
Recommended PCB Hole Layout  
.110 Series

Recommended PCB Hole Layout  
.250 Series

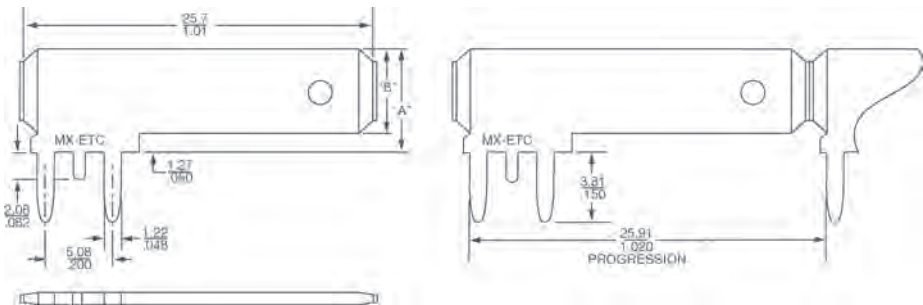
| Order No.  | Carrier | Dimension          |              | Lead-free |
|------------|---------|--------------------|--------------|-----------|
|            |         | Mounted Height (A) | Tab Size (B) |           |
| 19712-4001 | Loose   | 9.19 (.362)        | 2.79 (.110)  | Yes       |
| 19712-4003 | Strip   |                    |              |           |

# Quick Disconnect Terminals for PC Board Right Angle Tab Size—6.35mm (.250")

**Physical**  
Material: Brass  
Thickness: 0.813mm (.032")  
Plating: Tin 3.81µm (150µ")  
over Nickel 1.27µm (50µ")

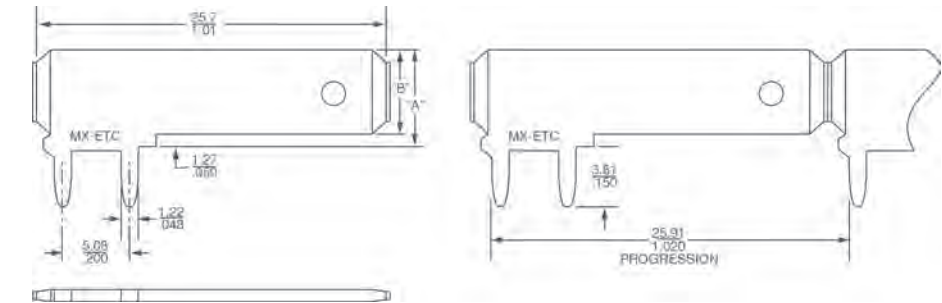


| Order No.  | Carrier | Dimension          |              | Lead-free |
|------------|---------|--------------------|--------------|-----------|
|            |         | Mounted Height (A) | Tab Size (B) |           |
| 19713-4001 | Loose   | 9.02 (.355)        | 6.35 (.250)  | Yes       |
| 19713-4003 | Strip   |                    |              |           |



**Physical**  
Material: Brass  
Thickness: 0.813mm (.032")  
Plating: Tin 3.81µm (150µ") over Nickel 127µm (50µ") min. thickness

| Order No.  | Carrier | Dimension          |              | Lead-free |
|------------|---------|--------------------|--------------|-----------|
|            |         | Mounted Height (A) | Tab Size (B) |           |
| 19711-4201 | Loose   | 7.62 (.300)        | 6.35 (.250)  | Yes       |
| 19711-4203 | Strip   |                    |              |           |



**Physical**  
Material: Brass  
Thickness: 0.813mm (.032")  
Plating: Tin 5.00µm (200µ") over Copper

## Special Plating

| Order No.  | Carrier | Dimension          |              | Hole | Lead-free |
|------------|---------|--------------------|--------------|------|-----------|
|            |         | Mounted Height (A) | Tab Size (B) |      |           |
| 19711-4001 | Loose   | 7.62 (.300)        | 6.35 (.250)  | Yes  | Yes       |
| 19711-4003 | Strip   |                    |              |      |           |
| 19711-4005 | Loose   |                    |              |      |           |
| 19711-4007 | Strip   |                    |              |      |           |

### Wire Management

|                                    |             |
|------------------------------------|-------------|
| Wire Connectors .....              | D-3 to D-4  |
| Cable Ties and Mounting Pads ..... | D-5         |
| PermaFit™ Heat Shrink Tubing ..... | D-6 to D-16 |

# Wire Management Products



## Closed-End Connectors

Molex nylon closed-end connectors feature two-piece construction. A translucent nylon insulator is adhered to the pure electrolytic, copper insert. Closed-end connectors are used in a wide variety of situations to “pigtail” two or more wires together, and can be used as a dead end splice or one power line and multiple lead offs.

## Wire Connectors

Molex Wire Connectors offer a cost effective way to produce safe and secure wire connections. The tough, thermoplastic shell provides UL-94V2 flame retardant protection while the fixed square-wire spring construction offers a secure connection that will not relax over time.

Standard Twist Locks feature a threaded funnel entry to easily guide wires into the connector.

Wing Locks offer deep gripping ribs and swept-back wings that permit a higher torque.

High Temp Wire Connectors are used in applications that require continued exposure to heat.

## Cable Ties

Molex offers a full line of standard cable ties as well as selected mounting and identification ties. Our cable ties are constructed from durable nylon 6/6 and offer a compact, one piece design. These industry standard products are designed to meet or exceed the MIL-S-23190E tensile strength requirements.

## Heat Shrink Tubing

Molex offers a wide variety of heat shrink tubing including thin-wall, adhesive-lined dual-wall and heavy-wall polyolefin tubing as well as heat shrinkable PVC.

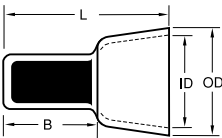
Thin (single) wall is high quality tubing with a wide variety of uses. It is made from flame retardant polyolefin, giving it excellent physical, chemical and electrical properties that meet industrial and military requirements for highly reliable, general-purpose tubing.

Dual-wall tubing is adhesive lined, and manufactured using fully flame retardant polyolefin tubing which offers superior strain relief as well as environmental sealing capabilities.

Heavy-wall tubing is UL rated for direct burial applications. This tubing is chemically cross linked during manufacturing which ensures that it will not split or rupture during installation, even if overheated.

Our economical PVC tubing has a longitudinal shrinkage of approximately 20% allowing ripple free conformance around sharp bends such as appliance handles and bus bars.

# Nylon Insulated, Closed-End Connectors

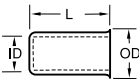


Molex Nylon Closed-End Connectors feature a 2-piece construction. A translucent nylon-molded insulation is adhered to the metal connector insert. The connector’s insert is annealed, Tin-plated, seamless, pure electrolytic, tough pitch Copper. Individual design and performance requirements dictate the use of Copper inserts.

**Physical**  
Material: Insert—Copper  
Insulation—Nylon  
Plating: Tin

| Wire Range<br>AWG (mm²) | Circular<br>Mil Area | Order No.   |            | Barrel Length<br>(B) | Overall Length<br>(L) | Outside Diameter<br>(OD) | Inside Diameter<br>(ID) | Lead-free |
|-------------------------|----------------------|-------------|------------|----------------------|-----------------------|--------------------------|-------------------------|-----------|
|                         |                      | Loose Piece | Mylar Tape |                      |                       |                          |                         |           |
| 14-22 (1.94-0.38)       | 3831-754             | 19160-0012  | 19160-0070 | 10.92 (.430)         | 15.50 (.610)          | 7.80 (.310)              | 6.60 (.260)             | Yes       |
| 12-22 (3.09-0.38)       | 6008-754             | 19160-0009  | 19160-0071 | 9.40 (.370)          | 21.84 (.860)          | 8.90 (.350)              | 7.10 (.280)             |           |
| 10-16 (5.01-1.23)       | 9880-2426            | 19160-0002  | 19160-0083 | 9.91 (.390)          | 22.86 (.900)          | 11.20 (.440)             | 9.60 (.380)             |           |
| 8 (7.96)                | 15700                | 19160-0024  | 19160-0028 | 10.90 (.430)         | 27.70 (1.090)         | 14.20 (.560)             | 12.70 (.500)            |           |

# Connector Inserts

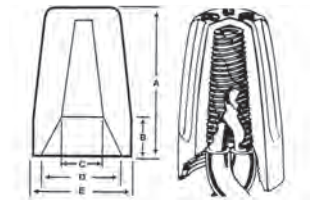


Molex Connector Inserts are the same annealed, Tin-plated, seamless pieces used in the nylon-insulated, closed-end connectors above. These inserts are used in applications where insulation is not essential.

**Physical**  
Material: Copper  
Plating: Tin

| Wire Range<br>AWG (mm²) | Circular Mil Area | Order No.  | Overall Length<br>(L) | Outside Diameter<br>(OD) | Inside Diameter<br>(ID) | Lead-free |
|-------------------------|-------------------|------------|-----------------------|--------------------------|-------------------------|-----------|
| 14-22 (1.94-0.38)       | 3831-754          | 19160-0025 | 7.92 (.314)           | 3.61 (.142)              | 2.29 (.090)             | Yes       |
| 12-22 (3.09-0.38)       | 6008-754          | 19160-0022 | 8.05 (.317)           | 4.22 (.166)              | 2.64 (.104)             |           |
| 10-16 (5.01-1.23)       | 9880-2426         | 19160-0014 | 7.47 (.294)           | 5.56 (.219)              | 3.84 (.151)             |           |
| 8 (7.96)                | 15700             | 19160-0029 | 11.05 (.435)          | 7.67 (.302)              | 5.59 (.220)             |           |

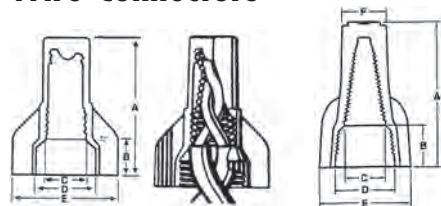
## Twist Lock Wire Connectors



A cone shaped, plated steel spring conforms to the inside contour of the insulating shell, which supports the spring as the conductor is driven up into the cone. Requiring no pretwisting, the wires are automatically twisted together for a secure connection and maximum contact. Fixed spring wire connectors may be used to make branch circuit or fixture wire connections on numerous combinations of solid and/or stranded wire.

| Copper Wire Only                  |                 |                 | Order No.  | Length (A)  | Dimensions  |             |             | Width (E)   | Lead-free |
|-----------------------------------|-----------------|-----------------|------------|-------------|-------------|-------------|-------------|-------------|-----------|
| Wire Range AWG (mm <sup>2</sup> ) | Minimum         | Maximum         |            |             | B           | C           | D           |             |           |
| 16-22 (1.23-0.38)                 | 1 #22 and 1 #20 | 2 #16           | 19160-0039 | 14.7 (.578) | 4.37 (.172) | 3.18 (.125) | 6.35 (.250) | 8.33 (.328) | Yes       |
| 16-22 (1.23-0.38)                 | 3 #22           | 3 #16           | 19160-0040 | 17.9 (.703) | 4.37 (.172) | 4.76 (.188) | 7.94 (.313) | 9.92 (.391) |           |
| 14-22 (1.94-0.38)                 | 3 #20           | 4 #16 and 1 #20 | 19160-0041 | 21.4 (.844) | 8.33 (.328) | 5.16 (.203) | 8.73 (.344) | 11.1 (.438) |           |
| 10-18 (5.01-0.96)                 | 1 #14 and 1 #18 | 4 #14           | 19160-0042 | 23.8 (.938) | 6.75 (.266) | 5.95 (.234) | 11.1 (.438) | 13.9 (.547) |           |
| 10-18 (5.01-0.96)                 | 2 #14           | 2 #10 and 2 #12 | 19160-0043 | 27.0 (1.06) | 6.75 (.266) | 8.33 (.328) | 13.5 (.531) | 16.7 (.656) |           |

## Wing Lock Wire Connectors



19160-0046

(with through-hole for grounding)

A square wire, coiled spring expands freely within the tough plastic shell and can accommodate a wide range of wire combinations. The angled edges of the spring attach to the conductor as the connector is twisted on for an easily secured joint. The spring applies even pressure over the entire contact area and provides a low resistance connection and mechanical strength against pull and vibration.

| Copper Wire Only                  |                 |                  | Order No.  | Dimensions  |             |             |             |             |             | Lead-free |
|-----------------------------------|-----------------|------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|
| Wire Range AWG (mm <sup>2</sup> ) | Minimum         | Maximum          |            | Length (A)  | B           | C           | D           | Width (E)   | F           |           |
| 10-22 (5.01-0.38)                 | 2 #18           | 3 #12            | 19160-0044 | 26.2 (1.03) | 7.94 (.313) | 5.57 (.219) | 6.35 (.250) | 18.3 (.719) |             | Yes       |
| 10-18 (5.01-0.96)                 | 2 #14           | 5 #12            | 19160-0045 | 31.8 (1.25) | 7.94 (.313) | 7.14 (.281) | 11.1 (.438) | 23.0 (.906) |             |           |
| 6-22 (13.48-0.38)                 | 3 #22           | 4 #12 and 2 #18  | 19160-0046 | 18.7 (.734) | 14.3 (.563) | 7.94 (.313) | 8.33 (.328) | 29.4 (1.16) | 7.94 (.313) |           |
| 6-14 (13.48-1.94)                 | 1 #10 and 1 #12 | 1 #6 and 2 #8STR | 19160-0047 | 38.1 (1.50) | 11.1 (.438) | 9.53 (.375) | 19.1 (.750) | 31.8 (1.25) |             |           |

Note: Molex connectors must withstand extreme dielectric voltage tests to determine performance. All connectors are UL listed and CSA certified as Pressure-Type wire connectors for 600V max., building wire; 1000V max., signs or fixtures and comply with Federal Specification W-S-610d. Temperature rating 105°C (221°F) max.

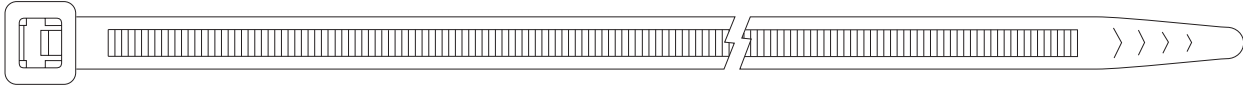
# General Purpose Cable Ties

- Features and Benefits

■ Bundle cables and wires to easily organize and identify

■ Cable ties exceed minimum tensile strength
- Physical

Material: Nylon



| Style        | Minimum Tensile Strength | Order No.  | Length         | Width       | Maximum Bundle Diameter | Color            |            |
|--------------|--------------------------|------------|----------------|-------------|-------------------------|------------------|------------|
| Miniature    | 80.10 (18 lb)            | 19252-0124 | 101.6 (4.00)   | 2.54 (.100) | 2.49 (.980)             | Natural          |            |
|              |                          | 19252-0129 |                |             |                         | Natural          |            |
|              |                          | 19252-0130 |                |             |                         | UV Black         |            |
|              |                          | 19252-0131 |                |             |                         | UV Black         |            |
|              |                          | 19252-0132 |                |             |                         | H.R. Black       |            |
|              |                          | 19252-0125 | 154.94 (6.10)  |             | 44.96 (1.77)            | Natural          |            |
|              |                          | 19252-0133 |                |             |                         | UV Black         |            |
|              |                          | 19252-0134 | 195.58 (7.70)  |             | 49.79 (1.96)            | Natural          |            |
|              |                          | 19252-0135 |                |             |                         | UV Black         |            |
| Intermediate | 177.93N (40 lb)          | 19252-0136 | 149.86 (5.90)  | 3.30 (.130) | 38.1 (1.5)              | Natural          |            |
|              |                          | 19252-0137 |                |             |                         | Natural          |            |
|              |                          | 19252-0138 |                |             |                         | UV Black         |            |
|              |                          | 19252-0139 | 203.2 (8.00)   |             | 3.56 (.140)             | 57.15 (2.25)     | Natural    |
|              |                          | 19252-0140 |                |             |                         |                  | UV Black   |
|              |                          | 19252-0141 | 299.72 (11.80) |             |                         | 87.12 (3.43)     | Natural    |
|              |                          | 19252-0142 |                |             |                         |                  | UV Black   |
|              |                          | 19252-0143 | 368.3 (14.50)  |             |                         | 109.98 (4.33)    | Natural    |
|              |                          | 19252-0144 |                |             | UV Black                |                  |            |
| Standard     | 222.41N (50 lb)          | 19252-0145 | 185.42 (7.30)  | 4.83 (.190) | 50.8 (2.00)             | Natural          |            |
|              |                          | 19252-0146 |                |             |                         | Natural          |            |
|              |                          | 19252-0147 |                |             |                         | UV Black         |            |
|              |                          | 19252-0148 |                |             |                         | UV Black         |            |
|              |                          | 19252-0149 | 287.02 (11.30) |             | 82.80 (3.26)            | Natural          |            |
|              |                          | 19252-0150 |                |             |                         | Natural          |            |
|              |                          | 19252-0151 |                |             |                         | UV Black         |            |
|              |                          | 19252-0152 |                |             |                         | UV Black         |            |
|              |                          | 19252-0153 | 368.30 (14.50) |             | 108.97 (4.29)           | Natural          |            |
|              |                          | 19252-0154 |                |             |                         | UV Black         |            |
|              |                          | 19252-0155 |                |             |                         | UV Black         |            |
|              |                          | Heavy Duty |                |             |                         | 533.79N (120 lb) | 19252-0156 |
| 19252-0157   | UV Black                 |            |                |             |                         |                  |            |

D  
Wire Management

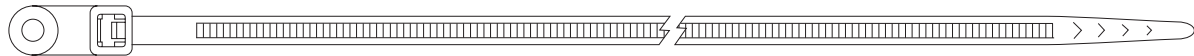
# Mounting Hole Cable Ties

- Features and Benefits

■ Bundling and mounting are done with on unit

■ Cable ties exceed minimum tensile strength
- Physical

Material: Nylon



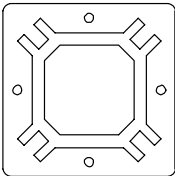
| Mounting Stud Size | Minimum Tensile Strength | Order No.  | Length         | Width       | Maximum Bundle Diameter | Color    |
|--------------------|--------------------------|------------|----------------|-------------|-------------------------|----------|
| 8                  | 133.45N (30 lb)          | 19252-0158 | 149.86(5.90)   | 3.56 (.140) | 35.05 (1.38)            | Natural  |
| 10                 |                          | 19252-0159 |                |             |                         | Natural  |
| 10                 | 222.41(50 lb)            | 19252-0160 | 203.2 (8.00)   | 4.83 (.190) | 55.88 (2.20)            | UV Black |
| 1/4                | 533.79N (120 lb)         | 19252-0161 | 368.30 (14.50) | 7.62 (.300) | 100.08 (3.94)           | Natural  |

# Mounting Bases

- Features and Benefits

■ Adhesive backing makes mounting the base simple and fast
- Physical

Material: Nylon



| Order No.  | Size                          | Mounted Height | Slot Height |
|------------|-------------------------------|----------------|-------------|
| 19252-0162 | 19.05 by 19.05 (.75 by .75)   | 2.54 (.10)     | 4.06 (.160) |
| 19252-0163 | 25.40 by 25.40 (1.00 by 1.00) | 5.08 (.20)     | 5.08 (.200) |

# Perma-Fit™ Polyolefin Multi-Purpose Heat Shrink Tubing

**19267**  
**Thin Wall**

## Features and Benefits

- High-quality tubing with a wide variety of uses
- Made from flame-retardant Polyolefin
- Excellent physical, chemical, and electrical properties
- Meets industrial and military requirements for highly reliable, general purpose tubing

## Reference Information

Colors: Black and clear (all sizes); White, Red, Blue, and Yellow  
Meets Mil-1-23053/5 Class 1 (colors), Class 2 (clear)  
UL recognized and CSA certified (colors only)

## Mechanical

Shrink Ratio 2:1  
Minimum Shrink Temperature: 90°C (all other colors)

## Physical

Material: Polyolefin  
Continuous Operating Temperature: -55 to +135°C

| Order No.  | Size (Diameter) | Minimum Expanded | Maximum Recovery | Nominal Recovery Wall Thickness | Length m (ft) | Package Quantity | Color  | Lead-free |
|------------|-----------------|------------------|------------------|---------------------------------|---------------|------------------|--------|-----------|
| 19267-0015 | 1.194 (0.047)   | 1.626 (0.064)    | 0.584 (0.023)    | 0.457 (0.018)                   | 1.22 (4.00)   | 25/pkg           | Black  | Yes       |
| 19267-0016 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0017 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0018 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0019 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0020 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0021 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Black  |           |
| 19267-0022 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0023 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0024 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0025 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0026 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0027 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Black  |           |
| 19267-0028 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0029 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0030 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0031 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0032 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0033 |                 |                  |                  |                                 | 304.8 (1000)  | Spool            | Black  |           |
| 19267-0034 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0035 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0036 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0037 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0038 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0039 |                 |                  |                  |                                 | 30.48 (100)   |                  | Black  |           |
| 19267-0040 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0041 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0042 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0043 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0044 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0045 | 1.600 (0.063)   | 1.600 (0.063)    | 0.787 (0.031)    | 0.457 (0.018)                   | 1.22 (4.00)   | 25/pkg           | Black  |           |
| 19267-0046 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0047 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0048 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0049 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0050 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0051 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Black  |           |
| 19267-0052 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0053 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0054 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0055 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0056 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0057 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Black  |           |
| 19267-0058 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0059 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0060 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0061 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0062 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0063 |                 |                  |                  |                                 | 304.8 (1000)  | Spool            | Black  |           |
| 19267-0064 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0065 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0066 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0067 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0068 |                 |                  |                  |                                 |               |                  | Yellow |           |

# Perma-Fit™ Polyolefin Multi-Purpose Heat Shrink Tubing

**19267**  
**Thin Wall**

## Features and Benefits

- High-quality tubing with a wide variety of uses
- Made from flame-retardant Polyolefin
- Excellent physical, chemical, and electrical properties
- Meets industrial and military requirements for highly reliable, general purpose tubing

## Reference Information

Colors: Black and clear (all sizes); White, Red, Blue, and Yellow  
Meets Mil-1-23053/5 Class 1 (colors), Class 2 (clear)  
UL recognized and CSA certified (colors only)

## Mechanical

Shrink Ratio 2:1  
Minimum Shrink Temperature: 90°C (all other colors)

## Physical

Material: Polyolefin  
Continuous Operating Temperature: -55 to +135°C

| Order No.  | Size (Diameter) | Minimum Expanded | Maximum Recovery | Nominal Recovery Wall Thickness | Length m (ft) | Package Quantity | Color  | Lead-free |
|------------|-----------------|------------------|------------------|---------------------------------|---------------|------------------|--------|-----------|
| 19267-0069 | 1.600 (0.063)   | 1.600 (0.063)    | 0.787 (0.031)    | 0.457 (0.018)                   | 30.48 (100)   | Spool            | Black  | Yes       |
| 19267-0070 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0071 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0072 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0073 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0074 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0075 | 2.362 (0.093)   | 2.362 (0.093)    | 1.168 (0.046)    | 0.508 (0.020)                   | 1.22 (4.00)   | 25/pkg           | Black  |           |
| 19267-0076 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0077 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0078 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0079 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0080 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0081 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Black  |           |
| 19267-0082 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0083 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0084 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0085 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0086 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0087 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Black  |           |
| 19267-0088 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0089 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0090 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0091 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0092 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0093 |                 |                  |                  |                                 | 304.8 (1000)  | Spool            | Black  |           |
| 19267-0094 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0095 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0096 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0097 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0098 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0099 |                 |                  |                  |                                 | 30.48 (100)   |                  | Black  |           |
| 19267-0100 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0101 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0102 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0103 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0104 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0105 | 3.175 (0.125)   | 3.175 (0.125)    | 1.575 (0.062)    | 0.508 (0.020)                   | 1.22 (4.00)   | 25/pkg           | Black  |           |
| 19267-0106 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0107 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0108 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0109 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0110 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0111 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Black  |           |
| 19267-0112 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0113 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0114 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0115 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0116 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0117 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Black  |           |
| 19267-0118 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0119 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0120 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0121 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0122 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0123 |                 |                  |                  |                                 | 304.8 (1000)  | Spool            | Black  |           |
| 19267-0124 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0125 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0126 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0127 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0128 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0129 |                 |                  |                  |                                 | 30.48 (100)   |                  | Black  |           |
| 19267-0130 |                 |                  |                  |                                 |               |                  | White  |           |

# Perma-Fit™ Polyolefin Multi-Purpose Heat Shrink Tubing

**19267**  
**Thin Wall**

## Features and Benefits

- High-quality tubing with a wide variety of uses
- Made from flame-retardant Polyolefin
- Excellent physical, chemical, and electrical properties
- Meets industrial and military requirements for highly reliable, general purpose tubing

## Reference Information

Colors: Black and clear (all sizes); White, Red, Blue, and Yellow  
Meets Mil-1-23053/5 Class 1 (colors), Class 2 (clear)  
UL recognized and CSA certified (colors only)

## Mechanical

Shrink Ratio 2:1  
Minimum Shrink Temperature: 90°C (all other colors)

## Physical

Material: Polyolefin  
Continuous Operating Temperature: -55 to +135°C

Wire Management

| Order No.  | Size (Diameter) | Minimum Expanded | Maximum Recovery | Nominal Recovery Wall Thickness | Length m (ft) | Package Quantity | Color  | Lead-free |
|------------|-----------------|------------------|------------------|---------------------------------|---------------|------------------|--------|-----------|
| 19267-0131 | 3.175 (0.125)   | 3.175 (0.125)    | 1.575 (0.062)    | 0.508 (0.020)                   | 30.48 (100)   | Spool            | Red    | Yes       |
| 19267-0132 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0133 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0134 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0135 | 4.750 (0.187)   | 4.750 (0.187)    | 2.362 (0.093)    | 0.508 (0.020)                   | 1.22 (4.00)   | 25/pkg           | Black  |           |
| 19267-0136 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0137 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0138 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0139 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0140 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Yellow |           |
| 19267-0141 |                 |                  |                  |                                 |               |                  | Black  |           |
| 19267-0142 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0143 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0144 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0145 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0146 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Yellow |           |
| 19267-0147 |                 |                  |                  |                                 |               |                  | Black  |           |
| 19267-0148 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0149 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0150 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0151 |                 |                  |                  |                                 | 304.8 (1000)  | Spool            | Clear  |           |
| 19267-0152 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0153 |                 |                  |                  |                                 |               |                  | Black  |           |
| 19267-0154 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0155 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0156 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0157 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0158 |                 |                  |                  |                                 | 30.48 (100)   |                  | Yellow |           |
| 19267-0159 |                 |                  |                  |                                 |               |                  | Black  |           |
| 19267-0160 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0161 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0162 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0163 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0164 | 6.350 (0.250)   | 6.350 (0.250)    | 3.175 (0.125)    | 0.635 (0.025)                   | 1.22 (4.00)   | 25/pkg           | Yellow |           |
| 19267-0165 |                 |                  |                  |                                 |               |                  | Black  |           |
| 19267-0166 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0167 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0168 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Blue   |           |
| 19267-0169 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0170 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0171 |                 |                  |                  |                                 |               |                  | Black  |           |
| 19267-0172 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | White  |           |
| 19267-0173 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0174 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0175 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0176 |                 |                  |                  |                                 | 304.8 (1000)  | Spool            | Yellow |           |
| 19267-0177 |                 |                  |                  |                                 |               |                  | Black  |           |
| 19267-0178 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0179 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0180 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0181 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0182 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0183 |                 |                  |                  |                                 | 30.48 (1000)  |                  | Black  |           |
| 19267-0184 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0185 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0186 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0187 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0188 |                 |                  |                  |                                 |               |                  | Yellow |           |

# Perma-Fit™ Polyolefin Multi-Purpose Heat Shrink Tubing

**19267**  
**Thin Wall**

## Features and Benefits

- High-quality tubing with a wide variety of uses
- Made from flame-retardant Polyolefin
- Excellent physical, chemical, and electrical properties
- Meets industrial and military requirements for highly reliable, general purpose tubing

## Reference Information

Colors: Black and clear (all sizes); White, Red, Blue, and Yellow  
Meets Mil-1-23053/5 Class 1 (colors), Class 2 (clear)  
UL recognized and CSA certified (colors only)

## Mechanical

Shrink Ratio 2:1  
Minimum Shrink Temperature: 90°C (all other colors)

## Physical

Material: Polyolefin  
Continuous Operating Temperature: -55 to +135°C

| Order No.  | Size (Diameter) | Minimum Expanded | Maximum Recovery | Nominal Recovery Wall Thickness | Length m (ft) | Package Quantity | Color  | Lead-free |  |
|------------|-----------------|------------------|------------------|---------------------------------|---------------|------------------|--------|-----------|--|
| 19267-0189 | 6.350 (0.250)   | 6.350 (0.250)    | 3.175 (0.125)    | 0.025                           | 30.48 (100)   | Spool            | Black  | Yes       |  |
| 19267-0190 |                 |                  |                  |                                 |               |                  | White  |           |  |
| 19267-0191 |                 |                  |                  |                                 |               |                  | Red    |           |  |
| 19267-0192 |                 |                  |                  |                                 |               |                  | Blue   |           |  |
| 19267-0193 |                 |                  |                  |                                 |               |                  | Clear  |           |  |
| 19267-0194 |                 |                  |                  |                                 |               |                  | Yellow |           |  |
| 19267-0195 | 9.525 (0.375)   | 9.525 (0.375)    | 4.750 (0.187)    | 0.025                           | 1.22 (4.00)   | 25/pkg           | Black  |           |  |
| 19267-0196 |                 |                  |                  |                                 |               |                  | White  |           |  |
| 19267-0197 |                 |                  |                  |                                 |               |                  | Red    |           |  |
| 19267-0198 |                 |                  |                  |                                 |               |                  | Blue   |           |  |
| 19267-0199 |                 |                  |                  |                                 |               |                  | Clear  |           |  |
| 19267-0200 |                 |                  |                  |                                 |               |                  | Yellow |           |  |
| 19267-0201 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Black  |           |  |
| 19267-0202 |                 |                  |                  |                                 |               |                  | White  |           |  |
| 19267-0203 |                 |                  |                  |                                 |               |                  | Red    |           |  |
| 19267-0204 |                 |                  |                  |                                 |               |                  | Blue   |           |  |
| 19267-0205 |                 |                  |                  |                                 |               |                  | Clear  |           |  |
| 19267-0206 |                 |                  |                  |                                 |               |                  | Yellow |           |  |
| 19267-0207 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Black  |           |  |
| 19267-0208 |                 |                  |                  |                                 |               |                  | White  |           |  |
| 19267-0209 |                 |                  |                  |                                 |               |                  | Red    |           |  |
| 19267-0210 |                 |                  |                  |                                 |               |                  | Blue   |           |  |
| 19267-0211 |                 |                  |                  |                                 |               |                  | Clear  |           |  |
| 19267-0212 |                 |                  |                  |                                 |               |                  | Yellow |           |  |
| 19267-0213 |                 |                  |                  |                                 | 152.4 (500)   | Spool            | Black  |           |  |
| 19267-0214 |                 |                  |                  |                                 |               |                  | White  |           |  |
| 19267-0215 |                 |                  |                  |                                 |               |                  | Red    |           |  |
| 19267-0216 |                 |                  |                  |                                 |               |                  | Blue   |           |  |
| 19267-0217 |                 |                  |                  |                                 |               |                  | Clear  |           |  |
| 19267-0218 |                 |                  |                  |                                 |               |                  | Yellow |           |  |
| 19267-0219 |                 |                  |                  |                                 | 30.48 (100)   |                  | Black  |           |  |
| 19267-0220 |                 |                  |                  |                                 |               |                  | White  |           |  |
| 19267-0221 |                 |                  |                  |                                 |               |                  | Red    |           |  |
| 19267-0222 |                 |                  |                  |                                 |               |                  | Blue   |           |  |
| 19267-0223 |                 |                  |                  |                                 |               |                  | Clear  |           |  |
| 19267-0224 |                 |                  |                  |                                 |               |                  | Yellow |           |  |
| 19267-0225 | 12.700 (0.500)  | 12.700 (0.500)   | 6.350 (0.250)    | 0.025                           | 1.22 (4.00)   | 25/pkg           | Black  |           |  |
| 19267-0226 |                 |                  |                  |                                 |               |                  | White  |           |  |
| 19267-0227 |                 |                  |                  |                                 |               |                  | Red    |           |  |
| 19267-0228 |                 |                  |                  |                                 |               |                  | Blue   |           |  |
| 19267-0229 |                 |                  |                  |                                 |               |                  | Clear  |           |  |
| 19267-0230 |                 |                  |                  |                                 |               |                  | Yellow |           |  |
| 19267-0231 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Black  |           |  |
| 19267-0232 |                 |                  |                  |                                 |               |                  | White  |           |  |
| 19267-0233 |                 |                  |                  |                                 |               |                  | Red    |           |  |
| 19267-0234 |                 |                  |                  |                                 |               |                  | Blue   |           |  |
| 19267-0235 |                 |                  |                  |                                 |               |                  | Clear  |           |  |
| 19267-0236 |                 |                  |                  |                                 |               |                  | Yellow |           |  |
| 19267-0237 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Black  |           |  |
| 19267-0238 |                 |                  |                  |                                 |               |                  | White  |           |  |
| 19267-0239 |                 |                  |                  |                                 |               |                  | Red    |           |  |
| 19267-0240 |                 |                  |                  |                                 |               |                  | Blue   |           |  |
| 19267-0241 |                 |                  |                  |                                 |               |                  | Clear  |           |  |
| 19267-0242 |                 |                  |                  |                                 |               |                  | Yellow |           |  |
| 19267-0243 |                 |                  |                  |                                 | 60.96 (200)   | Spool            | Black  |           |  |
| 19267-0244 |                 |                  |                  |                                 |               |                  | White  |           |  |
| 19267-0245 |                 |                  |                  |                                 |               |                  | Red    |           |  |
| 19267-0246 |                 |                  |                  |                                 |               |                  | Blue   |           |  |

# Perma-Fit™ Polyolefin Multi-Purpose Heat Shrink Tubing

**19267**  
**Thin Wall**

## Features and Benefits

- High-quality tubing with a wide variety of uses
- Made from flame-retardant Polyolefin
- Excellent physical, chemical, and electrical properties
- Meets industrial and military requirements for highly reliable, general purpose tubing

## Reference Information

Colors: Black and clear (all sizes); White, Red, Blue, and Yellow  
Meets Mil-1-23053/5 Class 1 (colors), Class 2 (clear)  
UL recognized and CSA certified (colors only)

## Mechanical

Shrink Ratio 2:1  
Minimum Shrink Temperature: 90°C

## Physical

Material: Polyolefin  
Continuous Operating Temperature: -55 to +135°C

| Order No.  | Size (Diameter) | Minimum Expanded | Maximum Recovery | Nominal Recovery Wall Thickness | Length m (ft) | Package Quantity | Color  | Lead- free |
|------------|-----------------|------------------|------------------|---------------------------------|---------------|------------------|--------|------------|
| 19267-0247 | 12.700 (0.500)  | 12.700 (0.500)   | 6.350 (0.250)    | 0.635 (0.025)                   | 60.96 (200)   | Spool            | Clear  | Yes        |
| 19267-0248 |                 |                  |                  |                                 |               |                  | Yellow |            |
| 19267-0249 | 12.700 (0.500)  | 12.700 (0.500)   | 6.350 (0.250)    | 0.635 (0.025)                   | 30.48 (100)   |                  | Black  |            |
| 19267-0250 |                 |                  |                  |                                 |               |                  | White  |            |
| 19267-0251 |                 |                  |                  |                                 |               |                  | Red    |            |
| 19267-0252 |                 |                  |                  |                                 |               |                  | Blue   |            |
| 19267-0253 |                 |                  |                  |                                 |               |                  | Clear  |            |
| 19267-0254 |                 |                  |                  |                                 |               |                  | Yellow |            |
| 19267-0255 | 19.050 (0.750)  | 19.050 (0.750)   | 9.525 (0.375)    | 7.620 (0.030)                   | 1.22 (4.00)   | 25/pkg           | Black  |            |
| 19267-0256 |                 |                  |                  |                                 |               |                  | White  |            |
| 19267-0257 |                 |                  |                  |                                 |               |                  | Red    |            |
| 19267-0258 |                 |                  |                  |                                 |               |                  | Blue   |            |
| 19267-0259 |                 |                  |                  |                                 |               |                  | Clear  |            |
| 19267-0260 |                 |                  |                  |                                 |               |                  | Yellow |            |
| 19267-0261 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Black  |            |
| 19267-0262 |                 |                  |                  |                                 |               |                  | White  |            |
| 19267-0263 |                 |                  |                  |                                 |               |                  | Red    |            |
| 19267-0264 |                 |                  |                  |                                 |               |                  | Blue   |            |
| 19267-0265 |                 |                  |                  |                                 |               |                  | Clear  |            |
| 19267-0266 |                 |                  |                  |                                 |               |                  | Yellow |            |
| 19267-0267 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Black  |            |
| 19267-0268 |                 |                  |                  |                                 |               |                  | White  |            |
| 19267-0269 |                 |                  |                  |                                 |               |                  | Red    |            |
| 19267-0270 |                 |                  |                  |                                 |               |                  | Blue   |            |
| 19267-0271 |                 |                  |                  |                                 |               |                  | Clear  |            |
| 19267-0272 |                 |                  |                  |                                 |               |                  | Yellow |            |
| 19267-0273 |                 |                  |                  |                                 | 30.48 (100)   | Spool            | Black  |            |
| 19267-0274 |                 |                  |                  |                                 |               |                  | White  |            |
| 19267-0275 |                 |                  |                  |                                 |               |                  | Red    |            |
| 19267-0276 |                 |                  |                  |                                 |               |                  | Blue   |            |
| 19267-0277 |                 |                  |                  |                                 |               |                  | Clear  |            |
| 19267-0278 |                 |                  |                  |                                 |               |                  | Yellow |            |
| 19267-0285 | 25.400 (1.000)  | 25.400 (1.000)   | 12.700 (0.500)   | 0.889 (0.035)                   | 1.22 (4.00)   | 25/pkg           | Black  |            |
| 19267-0286 |                 |                  |                  |                                 |               |                  | White  |            |
| 19267-0287 |                 |                  |                  |                                 |               |                  | Red    |            |
| 19267-0288 |                 |                  |                  |                                 |               |                  | Blue   |            |
| 19267-0289 |                 |                  |                  |                                 |               |                  | Clear  |            |
| 19267-0290 |                 |                  |                  |                                 |               |                  | Yellow |            |
| 19267-0291 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Black  |            |
| 19267-0292 |                 |                  |                  |                                 |               |                  | White  |            |
| 19267-0293 |                 |                  |                  |                                 |               |                  | Red    |            |
| 19267-0294 |                 |                  |                  |                                 |               |                  | Blue   |            |
| 19267-0295 |                 |                  |                  |                                 |               |                  | Clear  |            |
| 19267-0296 |                 |                  |                  |                                 |               |                  | Yellow |            |
| 19267-0297 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Black  |            |
| 19267-0298 |                 |                  |                  |                                 |               |                  | White  |            |
| 19267-0299 |                 |                  |                  |                                 |               |                  | Red    |            |
| 19267-0300 |                 |                  |                  |                                 |               |                  | Blue   |            |
| 19267-0301 |                 |                  |                  |                                 |               |                  | Clear  |            |
| 19267-0302 |                 |                  |                  |                                 |               |                  | Yellow |            |
| 19267-0303 |                 |                  |                  |                                 | 30.48 (100)   | Spool            | Black  |            |
| 19267-0304 |                 |                  |                  |                                 |               |                  | White  |            |

# Perma-Fit™ Polyolefin Multi-Purpose Heat Shrink Tubing

**19267**  
**Thin Wall**

## Features and Benefits

- High-quality tubing with a wide variety of uses
- Made from flame-retardant Polyolefin
- Excellent physical, chemical, and electrical properties
- Meets industrial and military requirements for highly reliable, general purpose tubing

## Reference Information

Colors: Black and clear (all sizes); White, Red, Blue, and Yellow  
Meets Mil-1-23053/5 Class 1 (colors), Class 2 (clear)  
UL recognized and CSA certified (colors only)

## Mechanical

Shrink Ratio 2:1  
Minimum Shrink Temperature: 90°C

## Physical

Material: Polyolefin  
Continuous Operating Temperature: -55 to +135°C

| Order No.  | Size (Diameter) | Minimum Expanded | Maximum Recovery | Nominal Recovery Wall Thickness | Length m (ft) | Package Quantity | Color  | Lead-free |
|------------|-----------------|------------------|------------------|---------------------------------|---------------|------------------|--------|-----------|
| 19267-0305 | 25.400 (1.000)  | 25.400 (1.000)   | 12.700 (0.500)   | 0.889 (0.035)                   | 30.48 (100)   | Spool            | Red    | Yes       |
| 19267-0306 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0307 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0308 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0315 | 38.100 (1.500)  | 38.100 (1.500)   | 19.050 (0.750)   | 1.016 (0.040)                   | 1.22 (4.00)   | 25/pkg           | Black  |           |
| 19267-0316 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0317 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0318 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0319 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0320 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0321 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Black  |           |
| 19267-0322 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0323 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0324 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0325 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0326 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0327 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Black  |           |
| 19267-0328 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0329 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0330 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0331 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0332 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0333 |                 |                  |                  |                                 | 30.48 (100)   | Spool            | Black  |           |
| 19267-0334 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0335 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0336 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0337 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0338 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0345 | 50.800 (2.000)  | 50.800 (2.000)   | 25.400 (1.000)   | 1.143 (0.045)                   | 1.22 (4.00)   | 25/pkg           | Black  |           |
| 19267-0346 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0347 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0348 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0349 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0350 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0351 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Black  |           |
| 19267-0352 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0353 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0354 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0355 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0356 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0357 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Black  |           |
| 19267-0358 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0359 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0360 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0361 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0362 |                 |                  |                  |                                 |               |                  | Yellow |           |

**D**

**Wire Management**

# Perma-Fit™ Polyolefin Multi-Purpose Heat Shrink Tubing

**19267**  
**Thin-Wall**

## Features and Benefits

- High-quality tubing with a wide variety of uses
- Made from flame-retardant Polyolefin
- Excellent physical, chemical, and electrical properties
- Meets industrial and military requirements for highly reliable, general purpose tubing

## Reference Information

Colors: Black and clear (all sizes); White, Red, Blue, and Yellow  
Meets Mil-1-23053/5 Class 1 (colors), Class 2 (clear)  
UL recognized and CSA certified (colors only)

## Mechanical

Shrink Ratio 2:1  
Minimum Shrink Temperature: 90°C

## Physical

Material: Polyolefin  
Continuous Operating Temperature: -55 to +135°C

| Order No.  | Size (Diameter) | Minimum Expanded | Maximum Recovery | Nominal Recovery Wall Thickness | Length m (ft) | Package Quantity | Color  | Lead-free |
|------------|-----------------|------------------|------------------|---------------------------------|---------------|------------------|--------|-----------|
| 19267-0363 | 50.800 (2.000)  | 50.800 (2.000)   | 25.400 (1.000)   | 1.143 (0.045)                   | 30.48 (100)   | Spool            | Black  | Yes       |
| 19267-0364 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0365 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0366 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0367 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19267-0368 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0375 | 76.200 (3.000)  | 76.200 (3.000)   | 38.100 (1.500)   | 1.270 (0.050)                   | 1.22 (4.00)   | 25/pkg           | Black  |           |
| 19267-0376 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0377 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0378 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0380 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0381 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Black  |           |
| 19267-0382 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0383 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0384 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0386 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0387 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Black  |           |
| 19267-0388 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0389 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0390 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0392 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0393 |                 |                  |                  |                                 | 15.24 (50.00) | Spool            | Black  |           |
| 19267-0394 |                 |                  |                  |                                 |               |                  | White  |           |
| 19267-0395 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19267-0396 |                 |                  |                  |                                 |               |                  | Blue   |           |
| 19267-0398 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19267-0405 | 101.600 (4.000) | 101.600 (4.000)  | 50.800 (2.000)   | 1.397 (0.055)                   | 1.22 (4.00)   | 25/pkg           | Black  |           |
| 19267-0411 |                 |                  |                  |                                 | 0.15 (.500)   | 200/pkg          | Black  |           |
| 19267-0417 |                 |                  |                  |                                 | 0.30 (1.00)   | 100/pkg          | Black  |           |
| 19267-0423 |                 |                  |                  |                                 | 15.24 (50)    | Spool            | Black  |           |

# Perma-Fit™ Polyolefin Heat Shrink Tubing with Adhesive Melt Liner

**19269**  
**Dual Wall**

## Features and Benefits

- Tough but flexible radiation cross-linked Polyolefin heat shrinkable tubing
- Excellent resistance to vibration, abrasion and corrosion
- Provides superior strain relief
- As it shrinks, the adhesive melt liner melts and flows to seal and encapsulate components or splices contained within

## Reference Information

Colors: Black, Clear, Red  
Meets Mil-1-23053/4\* Class 3 (Black)  
Meets UL 224 requirements (jacket only)  
UL recognized on black only

## Mechanical

Shrink ratio 3:1  
Minimum shrink temperature: 120°C

## Physical

Material: Polyolefin  
Continuous Operating Temperature: -55 to +125°C

| Order No.  | Size (Diameter) | Minimum Expanded | Maximum Recovery | Nominal Recovery Wall Thickness | Length m (ft)  | Package Quantity | Color         | Lead-free |               |             |
|------------|-----------------|------------------|------------------|---------------------------------|----------------|------------------|---------------|-----------|---------------|-------------|
| 19269-0008 | 3.175 (0.125)   | 3.175 (0.125)    | 1.016 (0.040)    | 0.965 (0.038)                   | 1.22 (4.00)    | 25/pkg.          | Black         | Yes       |               |             |
| 19269-0009 |                 |                  |                  |                                 | 0.15 (.500)    | 200/pkg.         | Black         |           |               |             |
| 19269-0010 |                 |                  |                  |                                 | 0.30 (1.00)    | 100/pkg.         | Black         |           |               |             |
| 19269-0155 |                 |                  |                  |                                 | 1.22 (4.00)    | 25/pkg.          | Red           |           |               |             |
| 19269-0013 | 4.750 (0.187)   | 4.750 (0.187)    | 1.524 (0.060)    | 1.143 (0.045)                   | 1.22 (4.00)    | 25/pkg.          | Black         |           |               |             |
| 19269-0014 |                 |                  |                  |                                 | 0.15 (.500)    | 200/pkg.         | Black         |           |               |             |
| 19269-0238 |                 |                  |                  |                                 | 1.22 (4.00)    | 25/pkg.          | Red           |           |               |             |
| 19269-0015 |                 |                  |                  |                                 | 0.30 (1.00)    | 100/pkg.         | Black         |           |               |             |
| 19269-0043 |                 | 5.715 (0.225)    | 1.270 (0.050)    |                                 | 1.22 (4.00)    | 25/pkg.          | Clear         |           |               |             |
| 19269-0044 |                 |                  |                  |                                 | 0.15 (.500)    | 200/pkg.         | Clear         |           |               |             |
| 19269-0045 |                 |                  |                  |                                 | 0.30 (1.00)    | 100/pkg.         | Clear         |           |               |             |
| 19269-0018 |                 |                  |                  |                                 | 1.22 (4.00)    | 25/pkg.          | Black         |           |               |             |
| 19269-0019 | 6.350 (0.250)   | 6.350 (0.250)    | 2.032 (0.080)    | 1.194 (0.047)                   | 0.15 (.500)    | 200/pkg.         | Black         |           |               |             |
| 19269-0020 |                 |                  |                  |                                 | 0.30 (1.00)    | 100/pkg.         | Black         |           |               |             |
| 19269-0164 |                 |                  |                  |                                 | 1.22 (4.00)    | 25/pkg.          | Red           |           |               |             |
| 19269-0048 |                 | 7.442 (0.293)    | 1.651 (0.065)    |                                 | 1.22 (4.00)    | 25/pkg.          | Clear         |           |               |             |
| 19269-0049 |                 |                  |                  |                                 | 0.15 (.500)    | 200/pkg.         | Clear         |           |               |             |
| 19269-0050 |                 |                  |                  |                                 | 0.30 (1.00)    | 100/pkg.         | Clear         |           |               |             |
| 19269-0023 | 9.525 (.375)    | 9.525 (0.375)    | 3.048 (0.120)    | 12.700 (0.050)                  | 1.22 (4.00)    | 25/pkg.          | Black         |           |               |             |
| 19269-0143 |                 |                  |                  |                                 |                |                  | Red           |           |               |             |
| 19269-0024 |                 |                  |                  |                                 | 0.15 (.500)    | 200/pkg.         | Black         |           |               |             |
| 19269-0115 |                 |                  |                  |                                 |                |                  | Red           |           |               |             |
| 19269-0025 |                 |                  |                  |                                 | 2.413 (0.095)  |                  | 0.30 (1.00)   |           | 100/pkg.      | Black       |
| 19269-0118 |                 |                  |                  |                                 |                |                  |               |           |               | Red         |
| 19269-0053 |                 | 10.846 (0.427)   | 2.413 (0.095)    |                                 | 1.22 (4.00)    | 25/pkg.          | Clear         |           |               |             |
| 19269-0054 |                 |                  |                  |                                 | 0.15 (.500)    | 200/pkg.         | Clear         |           |               |             |
| 19269-0055 |                 |                  |                  |                                 | 0.30 (1.00)    | 100/pkg.         | Clear         |           |               |             |
| 19269-0028 |                 |                  |                  |                                 | 12.700 (0.500) | 12.700 (0.500)   | 3.988 (0.157) |           | 1.397 (0.055) | 1.22 (4.00) |
| 19269-0131 |                 |                  | Red              |                                 |                |                  |               |           |               |             |
| 19269-0029 | 0.15 (.500)     | 200/pkg.         | Black            |                                 |                |                  |               |           |               |             |
| 19269-0071 |                 |                  | Red              |                                 |                |                  |               |           |               |             |
| 19269-0030 | 17.780 (0.700)  | 4.445 (0.175)    |                  | 0.30 (1.00)                     |                | 100/pkg.         | Black         |           |               |             |
| 19269-0074 |                 |                  |                  |                                 |                |                  | Red           |           |               |             |
| 19269-0058 |                 |                  |                  | 1.22 (4.00)                     |                | 25/pkg.          | Clear         |           |               |             |
| 19269-0059 |                 |                  |                  | 0.15 (.500)                     |                | 200/pkg.         | Clear         |           |               |             |
| 19269-0060 | 19.050 (0.750)  | 19.050 (0.750)   | 5.842 (0.230)    | 1.651 (0.065)                   | 0.30 (1.00)    | 100/pkg.         | Clear         |           |               |             |
| 19269-0033 |                 |                  |                  |                                 | 1.22 (4.00)    | 25/pkg.          | Black         |           |               |             |
| 19269-0142 |                 |                  |                  |                                 |                |                  | Red           |           |               |             |
| 19269-0034 |                 |                  |                  |                                 | 0.15 (.500)    | 200/pkg.         | Black         |           |               |             |
| 19269-0104 | 25.400 (1.000)  | 25.400 (1.000)   | 8.128 (0.320)    | 1.905 (0.075)                   |                |                  | Red           |           |               |             |
| 19269-0035 |                 |                  |                  |                                 | 0.30 (1.00)    | 100/pkg.         | Black         |           |               |             |
| 19269-0110 |                 |                  |                  |                                 |                |                  | Red           |           |               |             |
| 19269-0038 |                 |                  |                  |                                 | 1.22 (4.00)    | 25/pkg.          | Black         |           |               |             |
| 19269-0138 | 25.400 (1.000)  | 25.400 (1.000)   | 8.128 (0.320)    | 1.905 (0.075)                   |                |                  | Red           |           |               |             |
| 19269-0039 |                 |                  |                  |                                 | 0.15 (.500)    | 200/pkg.         | Black         |           |               |             |
| 19269-0063 |                 |                  |                  |                                 |                |                  | Red           |           |               |             |
| 19269-0040 |                 |                  |                  |                                 | 0.30 (1.00)    | 100/pkg.         | Black         |           |               |             |
| 19269-0067 |                 |                  |                  |                                 |                |                  | Red           |           |               |             |

# Perma-Fit™ PVC Heat Shrink Tubing

**19268**  
**Standard Wall**

## Features and Benefits

- Heat shrinkable PVC
- Longitudinal shrinkage of approximately 20% allows ripple-free conformance around sharp bends such as appliance handles and bus bars.
- Resists most chemicals and oils as well as sunlight, moisture, and fungus.
- Highly flame retardant

## Reference Information

Colors: Black, White, Red, Yellow, and Clear (others available)

Meets UL VW-1 and CSA C22.2

## Mechanical

Shrink Ratio: 2:1

Minimum Shrink Temperature: 110°C

Wire Management

| Order No.  | Size (Diameter) | Minimum Expanded | Maximum Recovery | Nominal Recovery Wall Thickness | Length m (ft) | Package Quantity | Color  | Lead-free |
|------------|-----------------|------------------|------------------|---------------------------------|---------------|------------------|--------|-----------|
| 19268-0033 | 1.194 (0.047)   | 1.168 (0.046)    | 0.584 (0.023)    | 0.457 (0.018)                   | 304.8 (1000)  | Spool            | Black  | Yes       |
| 19268-0034 |                 |                  |                  |                                 |               |                  | White  |           |
| 19268-0035 |                 |                  |                  |                                 |               |                  | Red    |           |
| 19268-0036 |                 |                  |                  |                                 |               |                  | Clear  |           |
| 19268-0037 |                 |                  |                  |                                 |               |                  | Yellow |           |
| 19268-0038 |                 |                  |                  |                                 | Black         |                  |        |           |
| 19268-0039 |                 |                  |                  |                                 | White         |                  |        |           |
| 19268-0040 |                 |                  |                  |                                 | Red           |                  |        |           |
| 19268-0041 |                 |                  |                  |                                 | Clear         |                  |        |           |
| 19268-0042 |                 |                  |                  |                                 | Yellow        |                  |        |           |
| 19268-0058 | 1.600 (0.063)   | 1.600 (0.063)    | 0.813 (0.032)    | 304.8 (1000)                    | Black         |                  |        |           |
| 19268-0059 |                 |                  |                  |                                 | White         |                  |        |           |
| 19268-0060 |                 |                  |                  |                                 | Red           |                  |        |           |
| 19268-0061 |                 |                  |                  |                                 | Clear         |                  |        |           |
| 19268-0062 |                 |                  |                  |                                 | Yellow        |                  |        |           |
| 19268-0063 |                 |                  |                  | Black                           |               |                  |        |           |
| 19268-0064 |                 |                  |                  | White                           |               |                  |        |           |
| 19268-0065 |                 |                  |                  | Red                             |               |                  |        |           |
| 19268-0066 |                 |                  |                  | Clear                           |               |                  |        |           |
| 19268-0067 |                 |                  |                  | Yellow                          |               |                  |        |           |
| 19268-0083 | 2.388 (0.094)   | 2.362 (0.093)    | 1.168 (0.046)    | 304.8 (1000)                    | Spool         | Black            |        |           |
| 19268-0084 |                 |                  |                  |                                 |               | White            |        |           |
| 19268-0085 |                 |                  |                  |                                 |               | Red              |        |           |
| 19268-0086 |                 |                  |                  |                                 |               | Clear            |        |           |
| 19268-0087 |                 |                  |                  |                                 |               | Yellow           |        |           |
| 19268-0088 |                 |                  |                  | Black                           |               |                  |        |           |
| 19268-0089 |                 |                  |                  | White                           |               |                  |        |           |
| 19268-0090 |                 |                  |                  | Red                             |               |                  |        |           |
| 19268-0091 |                 |                  |                  | Clear                           |               |                  |        |           |
| 19268-0092 |                 |                  |                  | Yellow                          |               |                  |        |           |
| 19268-0108 | 3.175 (0.125)   | 3.175 (0.125)    | 1.600 (0.063)    | 304.8 (1000)                    |               | Black            |        |           |
| 19268-0109 |                 |                  |                  |                                 |               | White            |        |           |
| 19268-0110 |                 |                  |                  |                                 |               | Red              |        |           |
| 19268-0111 |                 |                  |                  |                                 |               | Clear            |        |           |
| 19268-0112 |                 |                  |                  |                                 |               | Yellow           |        |           |
| 19268-0113 |                 |                  |                  | Black                           |               |                  |        |           |
| 19268-0114 |                 |                  |                  | White                           |               |                  |        |           |
| 19268-0115 |                 |                  |                  | Red                             |               |                  |        |           |
| 19268-0116 |                 |                  |                  | Clear                           |               |                  |        |           |
| 19268-0117 |                 |                  |                  | Yellow                          |               |                  |        |           |
| 19268-0133 | 4.750 (0.187)   | 4.750 (0.187)    | 2.362 (0.093)    | 304.8 (1000)                    | Spool         | Black            |        |           |
| 19268-0134 |                 |                  |                  |                                 |               | White            |        |           |
| 19268-0135 |                 |                  |                  |                                 |               | Red              |        |           |
| 19268-0136 |                 |                  |                  |                                 |               | Clear            |        |           |
| 19268-0137 |                 |                  |                  |                                 |               | Yellow           |        |           |
| 19268-0138 |                 |                  |                  | Black                           |               |                  |        |           |
| 19268-0139 |                 |                  |                  | White                           |               |                  |        |           |
| 19268-0140 |                 |                  |                  | Red                             |               |                  |        |           |
| 19268-0141 |                 |                  |                  | Clear                           |               |                  |        |           |
| 19268-0142 |                 |                  |                  | Yellow                          |               |                  |        |           |
| 19268-0158 | 6.350 (0.250)   | 6.350 (0.250)    | 3.175 (0.125)    | 304.8 (1000)                    |               | Black            |        |           |
| 19268-0159 |                 |                  |                  |                                 |               | White            |        |           |
| 19268-0160 |                 |                  |                  |                                 |               | Red              |        |           |
| 19268-0161 |                 |                  |                  |                                 |               | Clear            |        |           |
| 19268-0162 |                 |                  |                  |                                 |               | Yellow           |        |           |
| 19268-0163 |                 |                  |                  | Black                           |               |                  |        |           |
| 19268-0164 |                 |                  |                  | White                           |               |                  |        |           |
| 19268-0165 |                 |                  |                  | Red                             |               |                  |        |           |
| 19268-0166 |                 |                  |                  | Clear                           |               |                  |        |           |
| 19268-0167 |                 |                  |                  | Yellow                          |               |                  |        |           |
| 19268-0208 | 9.525 (0.375)   | 9.525 (0.375)    | 4.750 (0.187)    | 0.635 (0.025)                   | 60.96 (200)   | Black            |        |           |
| 19268-0209 |                 |                  |                  |                                 |               | White            |        |           |

# Perma-Fit™

## PVC Heat Shrink Tubing

### 19268

### Standard Wall

#### Features and Benefits

- Heat shrinkable PVC
- Longitudinal shrinkage of approximately 20% allows ripple-free conformance around sharp bends such as appliance handles and bus bars.
- Resists most chemicals and oils as well as sunlight, moisture, and fungus.
- Highly flame retardant

#### Reference Information

Colors: Black, White, Red, Yellow, and Clear (others available)  
Meets UL VW-1 and CSA C22.2

#### Mechanical

Shrink Ratio: 2:1  
Minimum Shrink Temperature: 110°C

| Order No.  | Size (Diameter) | Minimum Expanded | Maximum Recovery | Nominal Recovery Wall Thickness | Length m (ft)  | Package Quantity | Color          | Lead-free      |                 |                 |                |       |
|------------|-----------------|------------------|------------------|---------------------------------|----------------|------------------|----------------|----------------|-----------------|-----------------|----------------|-------|
| 19268-0210 | 9.525 (0.375)   | 9.525 (0.375)    | 4.750 (0.187)    | 0.635 (0.025)                   | 60.96 (200)    | Spool            | Red            | Yes            |                 |                 |                |       |
| 19268-0211 |                 |                  |                  |                                 |                |                  | Clear          |                |                 |                 |                |       |
| 19268-0212 |                 |                  |                  |                                 | Yellow         |                  |                |                |                 |                 |                |       |
| 19268-0213 |                 |                  |                  |                                 | Black          |                  |                |                |                 |                 |                |       |
| 19268-0214 |                 |                  |                  |                                 | White          |                  |                |                |                 |                 |                |       |
| 19268-0215 |                 |                  |                  |                                 | Red            |                  |                |                |                 |                 |                |       |
| 19268-0216 |                 |                  |                  |                                 | Clear          |                  |                |                |                 |                 |                |       |
| 19268-0217 |                 |                  |                  |                                 | Yellow         |                  |                |                |                 |                 |                |       |
| 19268-0233 | 12.700 (0.500)  | 12.700 (0.500)   | 6.350 (0.250)    |                                 | 60.96 (200)    |                  | Black          |                |                 |                 |                |       |
| 19268-0234 |                 |                  |                  |                                 |                |                  | White          |                |                 |                 |                |       |
| 19268-0235 |                 |                  |                  |                                 | Red            |                  |                |                |                 |                 |                |       |
| 19268-0236 |                 |                  |                  |                                 | Clear          |                  |                |                |                 |                 |                |       |
| 19268-0237 |                 |                  |                  |                                 | Yellow         |                  |                |                |                 |                 |                |       |
| 19268-0238 |                 |                  |                  |                                 | Black          |                  |                |                |                 |                 |                |       |
| 19268-0239 |                 |                  |                  |                                 | White          |                  |                |                |                 |                 |                |       |
| 19268-0240 |                 |                  |                  |                                 | Red            |                  |                |                |                 |                 |                |       |
| 19268-0241 |                 |                  |                  |                                 | Clear          |                  |                |                |                 |                 |                |       |
| 19268-0242 |                 |                  |                  |                                 | Yellow         |                  |                |                |                 |                 |                |       |
| 19268-0258 |                 |                  |                  |                                 | 15.875 (0.625) | 15.875 (0.625)   | 7.950 (0.313)  |                | 60.96 (200)     | Black           |                |       |
| 19268-0259 |                 |                  |                  |                                 |                |                  |                |                |                 | White           |                |       |
| 19268-0260 | Red             |                  |                  |                                 |                |                  |                |                |                 |                 |                |       |
| 19268-0261 | Clear           |                  |                  |                                 |                |                  |                |                |                 |                 |                |       |
| 19268-0262 | 15.875 (0.625)  | 15.875 (0.625)   | 7.950 (0.313)    |                                 | 0.025          | Spool            | Yellow         |                |                 |                 |                |       |
| 19268-0263 |                 |                  |                  |                                 |                |                  | Black          |                |                 |                 |                |       |
| 19268-0264 |                 |                  |                  | White                           |                |                  |                |                |                 |                 |                |       |
| 19268-0265 |                 |                  |                  | Red                             |                |                  |                |                |                 |                 |                |       |
| 19268-0266 |                 |                  |                  | Clear                           |                |                  |                |                |                 |                 |                |       |
| 19268-0267 |                 |                  |                  | Yellow                          |                |                  |                |                |                 |                 |                |       |
| 19268-0283 |                 |                  |                  | 19.050 (0.750)                  |                |                  | 19.050 (0.750) |                | 9.525 (0.375)   | Black           |                |       |
| 19268-0284 |                 |                  |                  |                                 |                |                  |                |                |                 | White           |                |       |
| 19268-0285 | Red             |                  |                  |                                 |                |                  |                |                |                 |                 |                |       |
| 19268-0286 | Clear           |                  |                  |                                 |                |                  |                |                |                 |                 |                |       |
| 19268-0287 | 25.400 (1.000)  | 25.400 (1.000)   | 12.700 (0.500)   | Yellow                          |                |                  |                |                |                 |                 |                |       |
| 19268-0308 |                 |                  |                  | Black                           |                |                  |                |                |                 |                 |                |       |
| 19268-0309 |                 |                  |                  | White                           |                |                  |                |                |                 |                 |                |       |
| 19268-0310 |                 |                  |                  | Red                             |                |                  |                |                |                 |                 |                |       |
| 19268-0311 | 31.750 (1.250)  | 31.750 (1.250)   | 16.002 (0.630)   | 0.889 (0.035)                   |                |                  | Spool          |                | Clear           |                 |                |       |
| 19268-0312 |                 |                  |                  |                                 |                |                  |                |                | Yellow          |                 |                |       |
| 19268-0333 |                 |                  |                  |                                 |                |                  |                |                | 31.750 (1.250)  | 31.750 (1.250)  | 16.002 (0.630) | Black |
| 19268-0334 |                 |                  |                  |                                 |                |                  |                |                |                 |                 |                | White |
| 19268-0335 | Red             |                  |                  |                                 |                |                  |                |                |                 |                 |                |       |
| 19268-0336 | Clear           |                  |                  |                                 |                |                  |                |                |                 |                 |                |       |
| 19268-0337 | 38.100 (1.500)  | 38.100 (1.500)   | 19.050 (0.750)   |                                 |                |                  |                |                | Yellow          |                 |                |       |
| 19268-0358 |                 |                  |                  |                                 |                |                  |                |                | Black           |                 |                |       |
| 19268-0359 |                 |                  |                  |                                 |                |                  |                |                | White           |                 |                |       |
| 19268-0360 |                 |                  |                  |                                 |                |                  |                |                | Red             |                 |                |       |
| 19268-0361 | 50.800 (2.000)  | 50.800 (2.000)   | 25.400 (1.000)   |                                 |                | Clear            |                |                |                 |                 |                |       |
| 19268-0362 |                 |                  |                  |                                 |                | Yellow           |                |                |                 |                 |                |       |
| 19268-0383 |                 |                  |                  |                                 |                | 50.800 (2.000)   |                | 50.800 (2.000) | 25.400 (1.000)  | Black           |                |       |
| 19268-0384 |                 |                  |                  |                                 |                |                  |                |                |                 | White           |                |       |
| 19268-0385 | Red             |                  |                  |                                 |                |                  |                |                |                 |                 |                |       |
| 19268-0386 | Clear           |                  |                  |                                 |                |                  |                |                |                 |                 |                |       |
| 19268-0387 | 76.200 (3.000)  | 76.200 (3.000)   | 38.100 (1.500)   |                                 |                | 1.270 (0.050)    |                | Spool          | Yellow          |                 |                |       |
| 19268-0408 |                 |                  |                  |                                 |                |                  |                |                | Black           |                 |                |       |
| 19268-0409 |                 |                  |                  |                                 |                |                  |                |                | White           |                 |                |       |
| 19268-0410 |                 |                  |                  |                                 |                |                  |                |                | Red             |                 |                |       |
| 19268-0411 |                 |                  |                  |                                 |                |                  |                |                | Clear           |                 |                |       |
| 19268-0412 |                 |                  |                  |                                 |                |                  |                |                | Yellow          |                 |                |       |
| 19268-0433 |                 |                  |                  |                                 |                |                  |                |                | 101.600 (4.000) | 101.600 (4.000) | 50.800 (2.000) | Black |
| 19268-0434 |                 |                  |                  |                                 |                |                  |                |                |                 |                 |                | White |
| 19268-0435 | Red             |                  |                  |                                 |                |                  |                |                |                 |                 |                |       |
| 19268-0436 | Clear           |                  |                  |                                 |                |                  |                |                |                 |                 |                |       |
| 19268-0437 | Yellow          |                  |                  |                                 |                |                  |                |                |                 |                 |                |       |
|            |                 |                  |                  |                                 |                |                  |                |                |                 |                 |                |       |

# Perma-Fit™ Battery Cable Heat Shrink Tubing

**19270**  
**Heavy Wall**

## Features and Benefits

- Heavy wall tubing (dual wall)
- Thermally stabilized and modified Polyolefin heat shrinkable tubing made especially for battery terminals and cable
- Provides a more positive sealing method which offers greater protection under the most adverse environmental conditions
- Seals may be made over lead, steel, copper, aluminum, and all standard plastic and elastomeric insulating materials
- Can withstand submersible and direct burial installation
- Thick-wall insulation and abrasion protection

## Reference Information

Colors: Red, black  
Meets Mil-1-23053/15 Class 1  
Meets UL 486 D and CSA C22.2 No.198.2

## Mechanical

Shrink Ratio 3:1  
Shrink Temperature: 120°C

## Physical

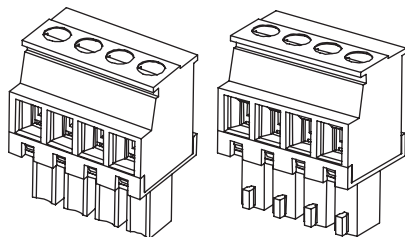
Material: Polyolefin  
Continuous Operating Temperature: 55°C to 110°C  
Rated 600V, 90°C continuous use

| Order No.  | Size<br>(Diameter) | Minimum<br>Expanded | Maximum<br>Recovery | Nominal Recovery<br>Wall Thickness | Length<br>m (ft) | Package Quantity | Color | Recommended Cable<br>Range for 600V Cable | Lead-free |
|------------|--------------------|---------------------|---------------------|------------------------------------|------------------|------------------|-------|-------------------------------------------|-----------|
| 19270-0008 | 10.160 (0.400)     | 10.160 (0.400)      | 3.810 (0.150)       | 1.524 (0.060)                      | 1.22 (4.00)      | 40/pkg.          | Black | 10-14 AWG                                 | Yes       |
| 19270-0009 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Black |                                           |           |
| 19270-0010 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Black |                                           |           |
| 19270-0013 |                    |                     |                     |                                    | 1.22 (4.00)      | 40/pkg.          | Red   |                                           |           |
| 19270-0014 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Red   |                                           |           |
| 19270-0015 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Red   |                                           |           |
| 19270-0018 | 19.050 (0.750)     | 19.050 (0.750)      | 5.588 (0.220)       | 2.413 (0.095)                      | 1.22 (4.00)      | 25/pkg.          | Black | 2-6 AWG                                   |           |
| 19270-0019 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Black |                                           |           |
| 19270-0020 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Black |                                           |           |
| 19270-0023 |                    |                     |                     |                                    | 1.22 (4.00)      | 25/pkg.          | Red   |                                           |           |
| 19270-0024 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Red   |                                           |           |
| 19270-0025 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Red   |                                           |           |
| 19270-0028 | 27.940 (1.100)     | 27.940 (1.100)      | 9.525 (0.375)       | 3.048 (0.120)                      | 1.22 (4.00)      | 25/pkg.          | Black | 1-3/0 AWG                                 |           |
| 19270-0029 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Black |                                           |           |
| 19270-0030 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Black |                                           |           |
| 19270-0033 |                    |                     |                     |                                    | 1.22 (4.00)      | 25/pkg.          | Red   |                                           |           |
| 19270-0034 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Red   |                                           |           |
| 19270-0035 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Red   |                                           |           |
| 19270-0038 | 38.100 (1.500)     | 38.100 (1.500)      | 12.700 (0.500)      | 3.556 (0.140)                      | 1.22 (4.00)      | 25/pkg.          | Black | 2/0 AWG-350 MCM                           |           |
| 19270-0039 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Black |                                           |           |
| 19270-0040 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Black |                                           |           |
| 19270-0043 |                    |                     |                     |                                    | 1.22 (4.00)      | 25/pkg.          | Red   |                                           |           |
| 19270-0044 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Red   |                                           |           |
| 19270-0045 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Red   |                                           |           |
| 19270-0048 | 50.800 (2.000)     | 50.800 (2.000)      | 19.050 (0.750)      | 3.937 (0.155)                      | 1.22 (4.00)      | 25/pkg.          | Black | 250-500 MCM                               |           |
| 19270-0049 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Black |                                           |           |
| 19270-0050 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Black |                                           |           |
| 19270-0053 |                    |                     |                     |                                    | 1.22 (4.00)      | 25/pkg.          | Red   |                                           |           |
| 19270-0054 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Red   |                                           |           |
| 19270-0055 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Red   |                                           |           |
| 19270-0058 | 89.916 (3.540)     | 89.916 (3.540)      | 29.972 (1.180)      | 3.937 (0.155)                      | 1.22 (4.00)      | 25/pkg.          | Black | 900-1500 MCM                              |           |
| 19270-0059 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Black |                                           |           |
| 19270-0060 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Black |                                           |           |
| 19270-0063 |                    |                     |                     |                                    | 1.22 (4.00)      | 25/pkg.          | Red   |                                           |           |
| 19270-0064 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Red   |                                           |           |
| 19270-0065 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Red   |                                           |           |
| 19270-0068 | 119.888 (4.720)    | 119.888 (4.720)     | 39.878 (1.570)      | 18.034 (0.170)                     | 1.22 (4.00)      | 25/pkg.          | Black | 1500-2500 MCM                             |           |
| 19270-0069 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Black |                                           |           |
| 19270-0070 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Black |                                           |           |
| 19270-0073 |                    |                     |                     |                                    | 1.22 (4.00)      | 25/pkg.          | Red   |                                           |           |
| 19270-0074 |                    |                     |                     |                                    | .15 (.500)       | 200/pkg.         | Red   |                                           |           |
| 19270-0075 |                    |                     |                     |                                    | .30 (1.00)       | 100/pkg.         | Red   |                                           |           |

|                                                            |              |
|------------------------------------------------------------|--------------|
| Pluggable (2-piece) Eurostyle™ PCB Terminal Blocks .....   | E-2 to E-32  |
| Fixed Mount (1-Piece) Eurostyle™ PCB Terminal Blocks ..... | E-33 to E-49 |
| Two-Screw Panel Mount Terminal Strips ("Eurostrips") ..... | E-50 to E-51 |
| Single Row Barrier Terminal Strips .....                   | E-52 to E-72 |
| Double Row Barrier Terminal Strips .....                   | E-72 to E-73 |
| Barrier Terminal Strips Accessories .....                  | E-74         |

## 3.50mm (.138") Pitch ESE Pluggable PCB Terminal Blocks

### 39503 Vertical Plug



Rear Wire Entry

Front Wire Entry

#### Features and Benefits

- Smallest pitch Eurostyle terminal block provides higher density
- Two optional styles of imprinting make identifying, testing and wiring easier in the field

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39501 and 39502  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.23Nm (2 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M2  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40°C to +115°C

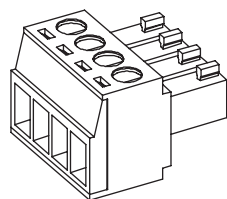
| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 2        | 39503-3002       | 39503-2002      | Yes       |
| 3        | 39503-3003       | 39503-2003      |           |
| 4        | 39503-3004       | 39503-2004      |           |
| 5        | 39503-3005       | 39503-2005      |           |
| 6        | 39503-3006       | 39503-2006      |           |
| 7        | 39503-3007       | 39503-2007      |           |
| 8        | 39503-3008       | 39503-2008      |           |
| 9        | 39503-3009       | 39503-2009      |           |
| 10       | 39503-3010       | 39503-2010      |           |
| 11       | 39503-3011       | 39503-2011      |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 12       | 39503-3012       | 39503-2012      | Yes       |
| 13       | 39503-3013       | 39503-2013      |           |
| 14       | 39503-3014       | 39503-2014      |           |
| 15       | 39503-3015       | 39503-2015      |           |
| 16       | 39503-3016       | 39503-2016      |           |
| 17       | 39503-3017       | 39503-2017      |           |
| 18       | 39503-3018       | 39503-2018      |           |
| 19       | 39503-3019       | 39503-2019      |           |
| 20       | 39503-3020       | 39503-2020      |           |

## 3.50mm (.138") Pitch ESE Pluggable PCB Terminal Blocks

### 39500 Horizontal Plug



#### Features and Benefits

- Smallest pitch Eurostyle terminal block provides higher density
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39501 and 39502  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.23Nm (2 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M2  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40°C to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39500-0002 | Yes       |
| 3        | 39500-0003 |           |
| 4        | 39500-0004 |           |
| 5        | 39500-0005 |           |
| 6        | 39500-0006 |           |
| 7        | 39500-0007 |           |
| 8        | 39500-0008 |           |

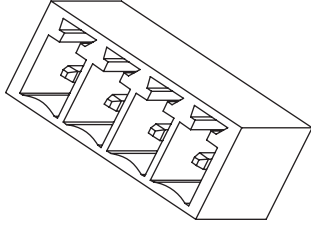
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 39500-0009 | Yes       |
| 10       | 39500-0010 |           |
| 11       | 39500-0011 |           |
| 12       | 39500-0012 |           |
| 13       | 39500-0013 |           |
| 14       | 39500-0014 |           |
| 15       | 39500-0015 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 16       | 39500-0016 | Yes       |
| 17       | 39500-0017 |           |
| 18       | 39500-0018 |           |
| 19       | 39500-0019 |           |
| 20       | 39500-0020 |           |

## 3.50mm (.138") Pitch ESE Pluggable PCB Terminal Blocks

### 39501 Vertical PCB Header



#### Features and Benefits

- Smallest footprint available in Eurostyle terminal blocks conserves PCB real estate and provides higher density
- Two optional styles of imprinting make identifying, testing and wiring easier in the field

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39500 and 39503  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40°C to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39501-1002 | Yes       |
| 3        | 39501-1003 |           |
| 4        | 39501-1004 |           |
| 5        | 39501-1005 |           |
| 6        | 39501-1006 |           |
| 7        | 39501-1007 |           |
| 8        | 39501-1008 |           |

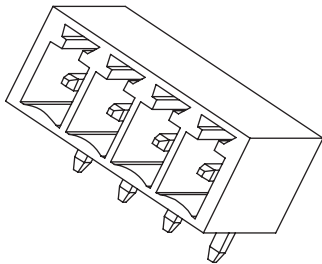
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 39501-1009 | Yes       |
| 10       | 39501-1010 |           |
| 11       | 39501-1011 |           |
| 12       | 39501-1012 |           |
| 13       | 39501-1013 |           |
| 14       | 39501-1014 |           |
| 15       | 39501-1015 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 16       | 39501-1016 | Yes       |
| 17       | 39501-1017 |           |
| 18       | 39501-1018 |           |
| 19       | 39501-1019 |           |
| 20       | 39501-1020 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

## 3.50mm (.138") Pitch ESE Pluggable PCB Terminal Blocks

### 39502 Horizontal PCB Header



#### Features and Benefits

- Smallest footprint available in Eurostyle terminal blocks conserves PCB real estate and provides higher density
- Two optional styles of imprinting make identifying, testing and wiring easier in the field

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39500 and 39503  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40°C to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39502-1002 | Yes       |
| 3        | 39502-1003 |           |
| 4        | 39502-1004 |           |
| 5        | 39502-1005 |           |
| 6        | 39502-1006 |           |
| 7        | 39502-1007 |           |
| 8        | 39502-1008 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 39502-1009 | Yes       |
| 10       | 39502-1010 |           |
| 11       | 39502-1011 |           |
| 12       | 39502-1012 |           |
| 13       | 39502-1013 |           |
| 14       | 39502-1014 |           |
| 15       | 39502-1015 |           |

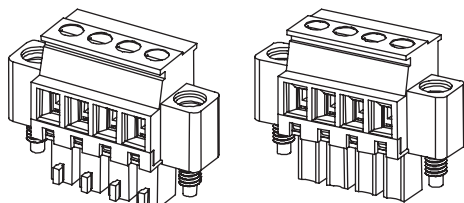
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 16       | 39502-1016 | Yes       |
| 17       | 39502-1017 |           |
| 18       | 39502-1018 |           |
| 19       | 39502-1019 |           |
| 20       | 39502-1020 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

## 3.50mm (.138") Pitch ESE Pluggable PCB Terminal Blocks

### 39507

### Vertical Plug with Retention Screws



Front Wire Entry

Rear Wire Entry

#### Features and Benefits

- Smallest pitch Eurostyle terminal block provides higher density
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39505 and 39506  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.23Nm (2 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M2  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40°C to +115°C

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 2        | 39507-3002       | 39507-2002      | Yes       |
| 3        | 39507-3003       | 39507-2003      |           |
| 4        | 39507-3004       | 39507-2004      |           |
| 5        | 39507-3005       | 39507-2005      |           |
| 6        | 39507-3006       | 39507-2006      |           |
| 7        | 39507-3007       | 39507-2007      |           |
| 8        | 39507-3008       | 39507-2008      |           |
| 9        | 39507-3009       | 39507-2009      |           |
| 10       | 39507-3010       | 39507-2010      |           |
| 11       | 39507-3011       | 39507-2011      |           |

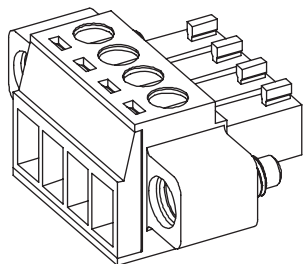
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 12       | 39507-3012       | 39507-2012      | Yes       |
| 13       | 39507-3013       | 39507-2013      |           |
| 14       | 39507-3014       | 39507-2014      |           |
| 15       | 39507-3015       | 39507-2015      |           |
| 16       | 39507-3016       | 39507-2016      |           |
| 17       | 39507-3017       | 39507-2017      |           |
| 18       | 39507-3018       | 39507-2018      |           |
| 19       | 39507-3019       | 39507-2019      |           |
| 20       | 39507-3020       | 39507-2020      |           |

## 3.50mm (.138") Pitch ESE Pluggable PCB Terminal Blocks

### 39504

### Horizontal Plug with Retention Screws



#### Features and Benefits

- Smallest pitch Eurostyle terminal block provides higher density
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39505 and 39506  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.23Nm (2 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M2  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40°C to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39504-0002 | Yes       |
| 3        | 39504-0003 |           |
| 4        | 39504-0004 |           |
| 5        | 39504-0005 |           |
| 6        | 39504-0006 |           |
| 7        | 39504-0007 |           |
| 8        | 39504-0008 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 39504-0009 | Yes       |
| 10       | 39504-0010 |           |
| 11       | 39504-0011 |           |
| 12       | 39504-0012 |           |
| 13       | 39504-0013 |           |
| 14       | 39504-0014 |           |
| 15       | 39504-0015 |           |

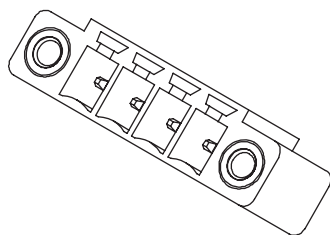
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 16       | 39504-0016 | Yes       |
| 17       | 39504-0017 |           |
| 18       | 39504-0018 |           |
| 19       | 39504-0019 |           |
| 20       | 39504-0020 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

## 3.50mm (.138") Pitch ESE Pluggable PCB Terminal Blocks

### 39505

#### Vertical PCB Header with Threaded Retention Inserts



#### Features and Benefits

- Smallest footprint available in Eurostyle terminal blocks conserves PCB real estate and provides higher density
- Two optional styles of imprinting make identifying, testing and wiring easier in the field

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39504 and 39507  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40°C to +115°C

| Circuits | Order No   | Lead-free |
|----------|------------|-----------|
| 2        | 39505-1002 | Yes       |
| 3        | 39505-1003 |           |
| 4        | 39505-1004 |           |
| 5        | 39505-1005 |           |
| 6        | 39505-1006 |           |
| 7        | 39505-1007 |           |
| 8        | 39505-1008 |           |

| Circuits | Order No   | Lead-free |
|----------|------------|-----------|
| 9        | 39505-1009 | Yes       |
| 10       | 39505-1010 |           |
| 11       | 39505-1011 |           |
| 12       | 39505-1012 |           |
| 13       | 39505-1013 |           |
| 14       | 39505-1014 |           |
| 15       | 39505-1015 |           |

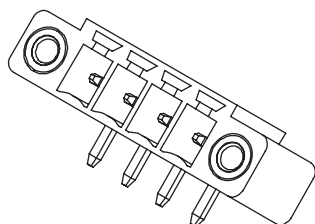
| Circuits | Order No   | Lead-free |
|----------|------------|-----------|
| 16       | 39505-1016 | Yes       |
| 17       | 39505-1017 |           |
| 18       | 39505-1018 |           |
| 19       | 39505-1019 |           |
| 20       | 39505-1020 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

## 3.50mm (.138") Pitch ESE Pluggable PCB Terminal Blocks

### 39506

#### Horizontal PCB Header with Threaded Retention Inserts



#### Features and Benefits

- Smallest footprint available in Eurostyle terminal blocks conserves PCB real estate and provides higher density
- Two optional styles of imprinting make identifying, testing and wiring easier in the field

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39504 and 39507  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40°C to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39506-1002 | Yes       |
| 3        | 39506-1003 |           |
| 4        | 39506-1004 |           |
| 5        | 39506-1005 |           |
| 6        | 39506-1006 |           |
| 7        | 39506-1007 |           |
| 8        | 39506-1008 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 39506-1009 | Yes       |
| 10       | 39506-1010 |           |
| 11       | 39506-1011 |           |
| 12       | 39506-1012 |           |
| 13       | 39506-1013 |           |
| 14       | 39506-1014 |           |
| 15       | 39506-1015 |           |

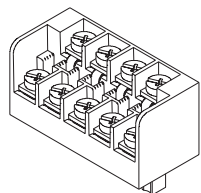
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 16       | 39506-1016 | Yes       |
| 17       | 39506-1017 |           |
| 18       | 39506-1018 |           |
| 19       | 39506-1019 |           |
| 20       | 39506-1020 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

## 3.81mm (.150") Pitch Beau™ EuroMate™ Pluggable PCB Terminal Blocks

### 39930

### Vertical Plug Rear and Front Wire Entry



#### Features and Benefits

- Pluggable barrier strip combines the benefits of pluggable Eurostyle design and the flexibility of barrier terminal strips
- Wiring terminals are staggered and offset vertically to facilitate easier wiring access
- Rear barrier prevents over-insertion of wire into terminal block
- Single row of female contacts interface with industry standard Eurostyle PCB headers, which produces twice the pitch at the wiring terminal

#### Reference Information

Packaging: Tray  
UL File: E48521  
Flammability: UL 94V-0  
Mates With: Most industry standard  
3.81mm (.150") pitch PCB headers

#### Electrical

Voltage: 300V  
Current: 12.0A  
Insulation Resistance: 3000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.79Nm (7.0 in.-lb.)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Copper  
Screw with Square Washer: Steel, M3  
Plating: Terminal—Tin  
Screw—Zinc with clear Chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40°C to +120°C

| Circuits | Order No.       |                  | Lead-free |
|----------|-----------------|------------------|-----------|
|          | Rear Wire Entry | Front Wire Entry |           |
| 3        | 39930-0203      | 39930-0303       | Yes       |
| 4        | 39930-0204      | 39930-0304       |           |
| 5        | 39930-0205      | 39930-0305       |           |
| 6        | 39930-0206      | 39930-0306       |           |
| 7        | 39930-0207      | 39930-0307       |           |
| 8        | 39930-0208      | 39930-0308       |           |
| 9        | 39930-0209      | 39930-0309       |           |
| 10       | 39930-0210      | 39930-0310       |           |
| 11       | 39930-0211      | 39930-0311       |           |
| 12       | 39930-0212      | 39930-0312       |           |

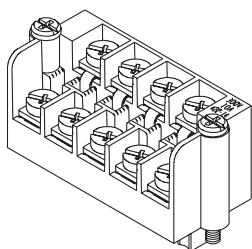
Note: Gold plating available. Contact your local Molex sales representative or distributor for order number.

| Circuits | Order No.       |                  | Lead-free |
|----------|-----------------|------------------|-----------|
|          | Rear Wire Entry | Front Wire Entry |           |
| 13       | 39930-0213      | 39930-0313       | Yes       |
| 14       | 39930-0214      | 39930-0314       |           |
| 15       | 39930-0215      | 39930-0315       |           |
| 16       | 39930-0216      | 39930-0316       |           |
| 17       | 39930-0217      | 39930-0317       |           |
| 18       | 39930-0218      | 39930-0318       |           |
| 19       | 39930-0219      | 39930-0319       |           |
| 20       | 39930-0220      | 39930-0320       |           |
| 21       | 39930-0221      | 39930-0321       |           |

## 3.81mm (.150") Pitch Beau™ EuroMate™ Pluggable PCB Terminal Blocks

### 39930

### Vertical Plug with Mounting Ends Rear and Front Wire Entry



#### Features and Benefits

- Pluggable barrier strip combines the benefits of pluggable Eurostyle design and the flexibility of barrier terminal strips
- Wiring terminals are staggered and offset vertically to facilitate easier wiring access
- Rear barrier prevents over-insertion of wire into terminal block
- Single row of female contacts interface with industry standard Eurostyle PCB headers, which produces twice the pitch at the wiring terminal

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Mates With: Most industry standard  
3.81mm (.150") pitch PCB headers

#### Electrical

Voltage: 300V  
Current: 12.0A  
Insulation Resistance: 3000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.79Nm (7.0 in.-lb.)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Bronze  
Screw With Square Washer: Steel, M3  
Plating: Terminal—Tin  
Screw—Zinc with yellow chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40°C to +120°C

| Circuits | Order No.       |                  | Lead-free |
|----------|-----------------|------------------|-----------|
|          | Rear Wire Entry | Front Wire Entry |           |
| 3        | 39930-0403      | 39930-0503       | Yes       |
| 4        | 39930-0404      | 39930-0504       |           |
| 5        | 39930-0405      | 39930-0505       |           |
| 6        | 39930-0406      | 39930-0506       |           |
| 7        | 39930-0407      | 39930-0507       |           |
| 8        | 39930-0408      | 39930-0508       |           |
| 9        | 39930-0409      | 39930-0509       |           |
| 10       | 39930-0410      | 39930-0510       |           |
| 11       | 39930-0411      | 39930-0511       |           |
| 12       | 39930-0412      | 39930-0512       |           |

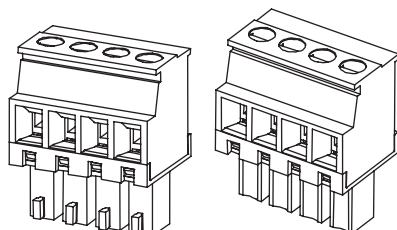
Note: Gold plating available. Contact your local Molex sales representative or distributor for order number.

| Circuits | Order No.       |                  | Lead-free |
|----------|-----------------|------------------|-----------|
|          | Rear Wire Entry | Front Wire Entry |           |
| 13       | 39930-0413      | 39930-0513       | Yes       |
| 14       | 39930-0414      | 39930-0514       |           |
| 15       | 39930-0415      | 39930-0515       |           |
| 16       | 39930-0416      | 39930-0516       |           |
| 17       | 39930-0417      | 39930-0517       |           |
| 18       | 39930-0418      | 39930-0518       |           |
| 19       | 39930-0419      | 39930-0519       |           |
| 20       | 39930-0420      | 39930-0520       |           |
| 21       | 39930-0421      | 39930-0521       |           |

## 3.81mm (.150") Pitch ESE Pluggable PCB Terminal Blocks

### 39513

#### Vertical Plug



Front Wire Entry

Rear Wire Entry

#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39511 and 39512  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.23Nm (2 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M2  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 2        | 39513-3002       | 39513-2002      | Yes       |
| 3        | 39513-3003       | 39513-2003      |           |
| 4        | 39513-3004       | 39513-2004      |           |
| 5        | 39513-3005       | 39513-2005      |           |
| 6        | 39513-3006       | 39513-2006      |           |
| 7        | 39513-3007       | 39513-2007      |           |
| 8        | 39513-3008       | 39513-2008      |           |
| 9        | 39513-3009       | 39513-2009      |           |
| 10       | 39513-3010       | 39513-2010      |           |
| 11       | 39513-3011       | 39513-2011      |           |

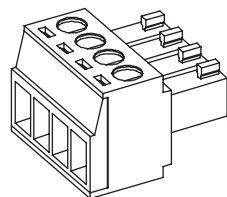
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 12       | 39513-3012       | 39513-2012      | Yes       |
| 13       | 39513-3013       | 39513-2013      |           |
| 14       | 39513-3014       | 39513-2014      |           |
| 15       | 39513-3015       | 39513-2015      |           |
| 16       | 39513-3016       | 39513-2016      |           |
| 17       | 39513-3017       | 39513-2017      |           |
| 18       | 39513-3018       | 39513-2018      |           |
| 19       | 39513-3019       | 39513-2019      |           |
| 20       | 39513-3020       | 39513-2020      |           |

## 3.81mm (.150") Pitch ESE Pluggable PCB Terminal Blocks

### 39510

#### Horizontal Plug



#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39511 and 39512  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.23Nm (2 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M2  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40°C to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39510-0002 | Yes       |
| 3        | 39510-0003 |           |
| 4        | 39510-0004 |           |
| 5        | 39510-0005 |           |
| 6        | 39510-0006 |           |
| 7        | 39510-0007 |           |
| 8        | 39510-0008 |           |

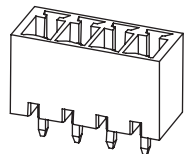
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 39510-0009 | Yes       |
| 10       | 39510-0010 |           |
| 11       | 39510-0011 |           |
| 12       | 39510-0012 |           |
| 13       | 39510-0013 |           |
| 14       | 39510-0014 |           |
| 15       | 39510-0015 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 16       | 39510-0016 | Yes       |
| 17       | 39510-0017 |           |
| 18       | 39510-0018 |           |
| 19       | 39510-0019 |           |
| 20       | 39510-0020 |           |

## 3.81mm (.150") Pitch ESE Pluggable PCB Terminal Blocks

### 39511 Vertical PCB Header



#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39510 and 39513  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Plating: Terminal—Tin  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39511-1002 | Yes       |
| 3        | 39511-1003 |           |
| 4        | 39511-1004 |           |
| 5        | 39511-1005 |           |
| 6        | 39511-1006 |           |
| 7        | 39511-1007 |           |
| 8        | 39511-1008 |           |

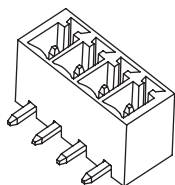
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 39511-1009 | Yes       |
| 10       | 39511-1010 |           |
| 11       | 39511-1011 |           |
| 12       | 39511-1012 |           |
| 13       | 39511-1013 |           |
| 14       | 39511-1014 |           |
| 15       | 39511-1015 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 16       | 39511-1016 | Yes       |
| 17       | 39511-1017 |           |
| 18       | 39511-1018 |           |
| 19       | 39511-1019 |           |
| 20       | 39511-1020 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

## 3.81mm (.150") Pitch ESE Pluggable PCB Terminal Blocks

### 39512 Horizontal PCB Header



#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39510 and 39513  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39512-1002 | Yes       |
| 3        | 39512-1003 |           |
| 4        | 39512-1004 |           |
| 5        | 39512-1005 |           |
| 6        | 39512-1006 |           |
| 7        | 39512-1007 |           |
| 8        | 39512-1008 |           |

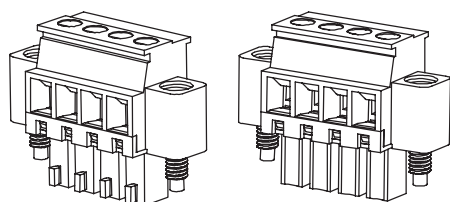
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 39512-1009 | Yes       |
| 10       | 39512-1010 |           |
| 11       | 39512-1011 |           |
| 12       | 39512-1012 |           |
| 13       | 39512-1013 |           |
| 14       | 39512-1014 |           |
| 15       | 39512-1015 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 16       | 39512-1016 | Yes       |
| 17       | 39512-1017 |           |
| 18       | 39512-1018 |           |
| 19       | 39512-1019 |           |
| 20       | 39512-1020 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

## 3.81mm (.150") Pitch ESE Pluggable PCB Terminal Blocks

### 39517 Vertical Plug with Retention Screws



Front Wire Entry

Rear Wire Entry

#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With:  
39515 and 39516  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.23Nm (2 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M2  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40 to +115°C

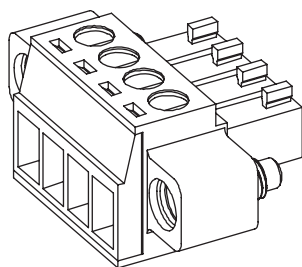
| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 2        | 39517-3002       | 39517-2002      | Yes       |
| 3        | 39517-3003       | 39517-2003      |           |
| 4        | 39517-3004       | 39517-2004      |           |
| 5        | 39517-3005       | 39517-2005      |           |
| 6        | 39517-3006       | 39517-2006      |           |
| 7        | 39517-3007       | 39517-2007      |           |
| 8        | 39517-3008       | 39517-2008      |           |
| 9        | 39517-3009       | 39517-2009      |           |
| 10       | 39517-3010       | 39517-2010      |           |
| 11       | 39517-3011       | 39517-2011      |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 12       | 39517-3012       | 39517-2012      | Yes       |
| 13       | 39517-3013       | 39517-2013      |           |
| 14       | 39517-3014       | 39517-2014      |           |
| 15       | 39517-3015       | 39517-2015      |           |
| 16       | 39517-3016       | 39517-2016      |           |
| 17       | 39517-3017       | 39517-2017      |           |
| 18       | 39517-3018       | 39517-2018      |           |
| 19       | 39517-3019       | 39517-2019      |           |
| 20       | 39517-3020       | 39517-2020      |           |

## 3.81mm (.150") Pitch ESE Pluggable PCB Terminal Blocks

### 39514 Horizontal Plug with Retention Screws



#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39515 and 39516  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 8.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.23Nm (2 in.-lb)

#### Physical

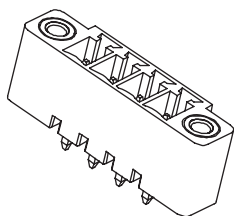
Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M2  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39514-0002 | Yes       |
| 3        | 39514-0003 |           |
| 4        | 39514-0004 |           |
| 5        | 39514-0005 |           |
| 6        | 39514-0006 |           |
| 7        | 39514-0007 |           |
| 8        | 39514-0008 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 39514-0009 | Yes       |
| 10       | 39514-0010 |           |
| 11       | 39514-0011 |           |
| 12       | 39514-0012 |           |
| 13       | 39514-0013 |           |
| 14       | 39514-0014 |           |
| 15       | 39514-0015 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 16       | 39514-0016 | Yes       |
| 17       | 39514-0017 |           |
| 18       | 39514-0018 |           |
| 19       | 39514-0019 |           |
| 20       | 39514-0020 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

**3.81mm (.150") Pitch****ESE****Pluggable PCB  
Terminal Blocks****39515****Vertical PCB Header  
with Threaded Retention Inserts****Features and Benefits**

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

**Reference Information**

Packaging: Tray  
 UL File No.: E48521  
 Mates With: 39514 and 39517  
 Designed In: Inches

**Electrical**

Voltage: 300V  
 Current: 8.0A  
 Insulation Resistance: 500 Megohms min.

**Physical**

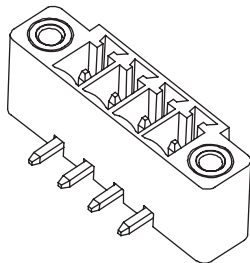
Housing: Polyamide 6/6, black  
 Terminal: Brass  
 Plating: Terminal Area—Tin  
 Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39515-1002 | Yes       |
| 3        | 39515-1003 |           |
| 4        | 39515-1004 |           |
| 5        | 39515-1005 |           |
| 6        | 39515-1006 |           |
| 7        | 39515-1007 |           |
| 8        | 39515-1008 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 39515-1009 | Yes       |
| 10       | 39515-1010 |           |
| 11       | 39515-1011 |           |
| 12       | 39515-1012 |           |
| 13       | 39515-1013 |           |
| 14       | 39515-1014 |           |
| 15       | 39515-1015 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 16       | 39515-1016 | Yes       |
| 17       | 39515-1017 |           |
| 18       | 39515-1018 |           |
| 19       | 39515-1019 |           |
| 20       | 39515-1020 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
 Please refer to sales drawing for additional order numbers (available on the web).

**3.81mm (.150") Pitch****ESE****Pluggable PCB  
Terminal Blocks****39516****Horizontal PCB Header  
with Threaded Retention Inserts****Features and Benefits**

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

**Reference Information**

Packaging: Tray  
 UL File No.: E48521  
 Mates With: 39514 and 39517  
 Designed In: Inches

**Electrical**

Voltage: 300V  
 Current: 8.0A  
 Insulation Resistance: 500 Megohms min.

**Physical**

Housing: Polyamide 6/6, black  
 Terminal: Brass  
 Plating: Terminal Area—Tin  
 Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39516-1002 | Yes       |
| 3        | 39516-1003 |           |
| 4        | 39516-1004 |           |
| 5        | 39516-1005 |           |
| 6        | 39516-1006 |           |
| 7        | 39516-1007 |           |
| 8        | 39516-1008 |           |

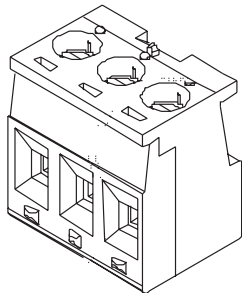
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 39516-1009 | Yes       |
| 10       | 39516-1010 |           |
| 11       | 39516-1011 |           |
| 12       | 39516-1012 |           |
| 13       | 39516-1013 |           |
| 14       | 39516-1014 |           |
| 15       | 39516-1015 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 16       | 39516-1016 | Yes       |
| 17       | 39516-1017 |           |
| 18       | 39516-1018 |           |
| 19       | 39516-1019 |           |
| 20       | 39516-1020 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
 Please refer to sales drawing for additional order numbers (available on the web).

# 5.00mm (.197") Pitch Beau™ Eurostyle™ Pluggable PCB Terminal Blocks Positive Locking System

**39990/39991**  
**Vertical Plug**



## Features and Benefits

- Unique latching system resists vibration and provides audible and visual indication when mating
- Screwdriver required to unmate, preventing the accidental unmating of critical circuits
- Polarization feature eliminates the potential for mis-mating and facilitates blind mating
- Rising cage clamp holds wires for secure, reliable contact

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Mates With: 39990 and 39991 PCB headers

## Electrical

Voltage: 300V  
Current: 10.0A  
Insulation Resistance: 5000 Megohms min.

## Mechanical

Recommended Tightening Torque: 0.56Nm (5.0 in-lb.)

## Physical

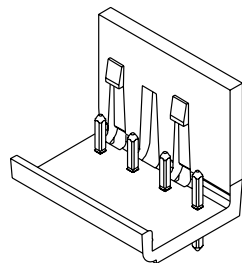
Housing: Polyamide 6/6, black  
Terminal: Bronze  
Screw: Steel, M3  
Cage Clamp: Brass  
Plating: Terminal—Tin or Gold  
Screw—Zinc with clear chromate  
Cage Clamp—Nickel  
Wire Range: 14 to 24 AWG  
Operating Temperature: -40°C to +105°C

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Tin Plated | Gold Plated |           |
| 2        | 39990-0302 | 39991-0302  | Yes       |
| 3        | 39990-0303 | 39991-0303  |           |
| 4        | 39990-0304 | 39991-0304  |           |
| 5        | 39990-0305 | 39991-0305  |           |
| 6        | 39990-0306 | 39991-0306  |           |
| 7        | 39990-0307 | 39991-0307  |           |
| 8        | 39990-0308 | 39991-0308  |           |
| 9        | 39990-0309 | 39991-0309  |           |
| 10       | 39990-0310 | 39991-0310  |           |

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Tin Plated | Gold Plated |           |
| 11       | 39990-0311 | 39991-0311  | Yes       |
| 12       | 39990-0312 | 39991-0312  |           |
| 13       | 39990-0313 | 39991-0313  |           |
| 14       | 39990-0314 | 39991-0314  |           |
| 15       | 39990-0315 | 39991-0315  |           |
| 16       | 39990-0316 | 39991-0316  |           |
| 17       | 39990-0317 | 39991-0317  |           |
| 18       | 39990-0318 | 39991-0318  |           |

# 5.00mm (.197") Pitch Beau™ Eurostyle™ Pluggable PCB Terminal Blocks Positive Locking System

**39990/39991**  
**Vertical PCB Header**



## Features and Benefits

- Unique latching system resists vibration and provides audible and visual indication when mating
- Screwdriver required to unmate, preventing the accidental unmating of critical circuits
- Polarization feature eliminates the potential for mis-mating and facilitates blind mating

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Mates With: 39990 and 39991 Plugs

## Electrical

Voltage: 300V  
Current: 10.0A  
Insulation Resistance: 5000 Megohms min.

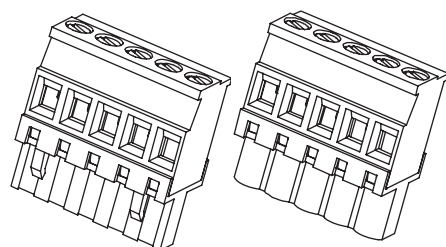
## Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Plating: Tin or Gold  
Operating Temperature: -40°C to +105°C

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Tin Plated | Gold Plated |           |
| 2        | 39990-0402 | 39991-0402  |           |
| 3        | 39990-0403 | 39991-0403  |           |
| 4        | 39990-0404 | 39991-0404  |           |
| 5        | 39990-0405 | 39991-0405  |           |
| 6        | 39990-0406 | 39991-0406  |           |
| 7        | 39990-0407 | 39991-0407  |           |
| 8        | 39990-0408 | 39991-0408  |           |
| 9        | 39990-0409 | 39991-0409  |           |
| 10       | 39990-0410 | 39991-0410  |           |

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Tin Plated | Gold Plated |           |
| 11       | 39990-0411 | 39991-0411  |           |
| 12       | 39990-0412 | 39991-0412  |           |
| 13       | 39990-0413 | 39991-0413  |           |
| 14       | 39990-0414 | 39991-0414  |           |
| 15       | 39990-0415 | 39991-0415  |           |
| 16       | 39990-0416 | 39991-0416  |           |
| 17       | 39990-0417 | 39991-0417  |           |
| 18       | 39990-0418 | 39991-0418  |           |

# 5.00mm (.197") Pitch ESE Pluggable PCB Terminal Blocks 39523 Vertical Plug



Front Wire Entry

Rear Wire Entry

## Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismating

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39521, 39522 and 39528  
Designed In: Inches

## Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

## Mechanical

Recommended Tightening Torque: 0.45Nm (4 in.-lb)

## Physical

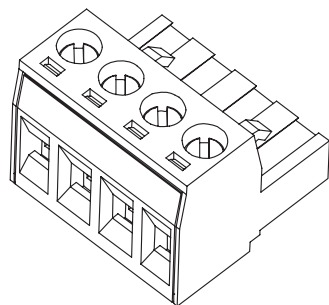
Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 2        | 39523-3002       | 39523-2002      | Yes       |
| 3        | 39523-3003       | 39523-2003      |           |
| 4        | 39523-3004       | 39523-2004      |           |
| 5        | 39523-3005       | 39523-2005      |           |
| 6        | 39523-3006       | 39523-2006      |           |
| 7        | 39523-3007       | 39523-2007      |           |
| 8        | 39523-3008       | 39523-2008      |           |
| 9        | 39523-3009       | 39523-2009      |           |
| 10       | 39523-3010       | 39523-2010      |           |
| 11       | 39523-3011       | 39523-2011      |           |
| 12       | 39523-3012       | 39523-2012      |           |
| 13       | 39523-3013       | 39523-2013      |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 14       | 39523-3014       | 39523-2014      | Yes       |
| 15       | 39523-3015       | 39523-2015      |           |
| 16       | 39523-3016       | 39523-2016      |           |
| 17       | 39523-3017       | 39523-2017      |           |
| 18       | 39523-3018       | 39523-2018      |           |
| 19       | 39523-3019       | 39523-2019      |           |
| 20       | 39523-3020       | 39523-2020      |           |
| 21       | 39523-3021       | 39523-2021      |           |
| 22       | 39523-3022       | 39523-2022      |           |
| 23       | 39523-3023       | 39523-2023      |           |
| 24       | 39523-3024       | 39523-2024      |           |

# 5.00mm (.197") Pitch ESE Pluggable PCB Terminal Blocks 39520 Horizontal Plug



## Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismating

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39521, 39522 and 39528  
Designed In: Inches

## Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

## Mechanical

Recommended Tightening Torque: 0.45Nm (4 in.-lb)

## Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39520-0002 | Yes       |
| 3        | 39520-0003 |           |
| 4        | 39520-0004 |           |
| 5        | 39520-0005 |           |
| 6        | 39520-0006 |           |
| 7        | 39520-0007 |           |
| 8        | 39520-0008 |           |
| 9        | 39520-0009 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

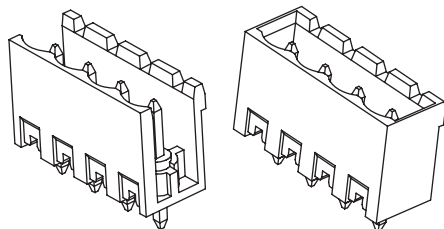
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39520-0010 | Yes       |
| 11       | 39520-0011 |           |
| 12       | 39520-0012 |           |
| 13       | 39520-0013 |           |
| 14       | 39520-0014 |           |
| 15       | 39520-0015 |           |
| 16       | 39520-0016 |           |
| 17       | 39520-0017 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39520-0018 | Yes       |
| 19       | 39520-0019 |           |
| 20       | 39520-0020 |           |
| 21       | 39520-0021 |           |
| 22       | 39520-0022 |           |
| 23       | 39520-0023 |           |
| 24       | 39520-0024 |           |

# 5.00mm (.197") Pitch ESE Pluggable PCB Terminal Blocks

**39521**

**Vertical PCB Header**



Open Ends

Closed Ends and SMC

## Features and Benefits

- SMC PCB headers withstand reflow soldering temperatures
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39520 and 39523  
Designed In: Inches

## Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

## Physical

Housing: Polyamide 6/6, black  
SMC Headers—Polyamide 4/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  |             |                          | Lead-free |
|----------|------------|-------------|--------------------------|-----------|
|          | Open Ends  | Closed Ends | Surface Mount Compatible |           |
| 2        | 39521-0002 | 39521-1002  | 39521-4002               | Yes       |
| 3        | 39521-0003 | 39521-1003  | 39521-4003               |           |
| 4        | 39521-0004 | 39521-1004  | 39521-4004               |           |
| 5        | 39521-0005 | 39521-1005  | 39521-4005               |           |
| 6        | 39521-0006 | 39521-1006  | 39521-4006               |           |
| 7        | 39521-0007 | 39521-1007  | 39521-4007               |           |
| 8        | 39521-0008 | 39521-1008  | 39521-4008               |           |
| 9        | 39521-0009 | 39521-1009  | 39521-4009               |           |
| 10       | 39521-0010 | 39521-1010  | 39521-4010               |           |
| 11       | 39521-0011 | 39521-1011  | 39521-4011               |           |
| 12       | 39521-0012 | 39521-1012  | 39521-4012               |           |
| 13       | 39521-0013 | 39521-1013  | 39521-4013               |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.  |             |                          | Lead-free |
|----------|------------|-------------|--------------------------|-----------|
|          | Open Ends  | Closed Ends | Surface Mount Compatible |           |
| 14       | 39521-0014 | 39521-1014  | 39521-4014               | Yes       |
| 15       | 39521-0015 | 39521-1015  | 39521-4015               |           |
| 16       | 39521-0016 | 39521-1016  | 39521-4016               |           |
| 17       | 39521-0017 | 39521-1017  | 39521-4017               |           |
| 18       | 39521-0018 | 39521-1018  | 39521-4018               |           |
| 19       | 39521-0019 | 39521-1019  | 39521-4019               |           |
| 20       | 39521-0020 | 39521-1020  | 39521-4020               |           |
| 21       | 39521-0021 | 39521-1021  | 39521-4021               |           |
| 22       | 39521-0022 | 39521-1022  | 39521-4022               |           |
| 23       | 39521-0023 | 39521-1023  | 39521-4023               |           |
| 24       | 39521-0024 | 39521-1024  | 39521-4024               |           |

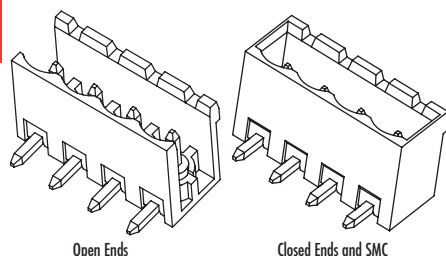
# 5.00mm (.197") Pitch

## ESE

### Pluggable PCB Terminal Blocks

#### 39522

#### Horizontal PCB Header Closed Ends, Open Ends and Surface Mount Compatible



Open Ends

Closed Ends and SMC

#### Features and Benefits

- SMC PCB headers withstand reflow soldering temperatures
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39520 and 39523  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

#### Physical

Housing: Polyamide 6/6, black  
SMC Headers—Polyamide 4/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  |             |                          | Lead-free |
|----------|------------|-------------|--------------------------|-----------|
|          | Open Ends  | Closed Ends | Surface Mount Compatible |           |
| 2        | 39522-0002 | 39522-1002  | 39522-4002               | Yes       |
| 3        | 39522-0003 | 39522-1003  | 39522-4003               |           |
| 4        | 39522-0004 | 39522-1004  | 39522-4004               |           |
| 5        | 39522-0005 | 39522-1005  | 39522-4005               |           |
| 6        | 39522-0006 | 39522-1006  | 39522-4006               |           |
| 7        | 39522-0007 | 39522-1007  | 39522-4007               |           |
| 8        | 39522-0008 | 39522-1008  | 39522-4008               |           |
| 9        | 39522-0009 | 39522-1009  | 39522-4009               |           |
| 10       | 39522-0010 | 39522-1010  | 39522-4010               |           |
| 11       | 39522-0011 | 39522-1011  | 39522-4011               |           |
| 12       | 39522-0012 | 39522-1012  | 39522-4012               |           |
| 13       | 39522-0013 | 39522-1013  | 39522-4013               |           |

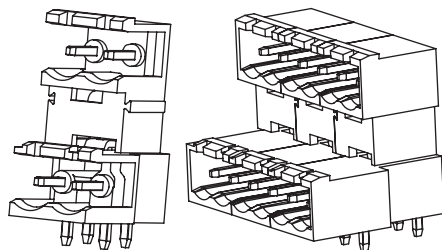
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.  |             |                          | Lead-free |
|----------|------------|-------------|--------------------------|-----------|
|          | Open Ends  | Closed Ends | Surface Mount Compatible |           |
| 14       | 39522-0014 | 39522-1014  | 39522-4014               | Yes       |
| 15       | 39522-0015 | 39522-1015  | 39522-4015               |           |
| 16       | 39522-0016 | 39522-1016  | 39522-4016               |           |
| 17       | 39522-0017 | 39522-1017  | 39522-4017               |           |
| 18       | 39522-0018 | 39522-1018  | 39522-4018               |           |
| 19       | 39522-0019 | 39522-1019  | 39522-4019               |           |
| 20       | 39522-0020 | 39522-1020  | 39522-4020               |           |
| 21       | 39522-0021 | 39522-1021  | 39522-4021               |           |
| 22       | 39522-0022 | 39522-1022  | 39522-4022               |           |
| 23       | 39522-0023 | 39522-1023  | 39522-4023               |           |
| 24       | 39522-0024 | 39522-1024  | 39522-4024               |           |

# 5.00mm (.197") Pitch ESE Pluggable PCB Terminal Blocks

**39528**

## Dual Level Horizontal PCB Header



Open Ends

Closed Ends

### Features and Benefits

- Offset dual level header allows easy access for wiring and testing on a crowded board
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39520 and 39523  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Open Ends  | Closed Ends |           |
| 4        | 39528-0004 | 39528-1004  | Yes       |
| 6        | 39528-0006 | 39528-1006  |           |
| 8        | 39528-0008 | 39528-1008  |           |
| 10       | 39528-0010 | 39528-1010  |           |
| 12       | 39528-0012 | 39528-1012  |           |
| 14       | 39528-0014 | 39528-1014  |           |
| 16       | 39528-0016 | 39528-1016  |           |
| 18       | 39528-0018 | 39528-1018  |           |
| 20       | 39528-0020 | 39528-1020  |           |
| 22       | 39528-0022 | 39528-1022  |           |
| 24       | 39528-0024 | 39528-1024  |           |
| 26       | 39528-0026 | 39528-1026  |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Open Ends  | Closed Ends |           |
| 28       | 39528-0028 | 39528-1028  | Yes       |
| 30       | 39528-0030 | 39528-1030  |           |
| 32       | 39528-0032 | 39528-1032  |           |
| 34       | 39528-0034 | 39528-1034  |           |
| 36       | 39528-0036 | 39528-1036  |           |
| 38       | 39528-0038 | 39528-1038  |           |
| 40       | 39528-0040 | 39528-1040  |           |
| 42       | 39528-0042 | 39528-1042  |           |
| 44       | 39528-0044 | 39528-1044  |           |
| 46       | 39528-0046 | 39528-1046  |           |
| 48       | 39528-0048 | 39528-1048  |           |

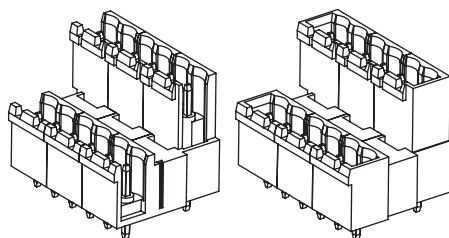
# 5.00mm (.197") Pitch

## ESE

## Pluggable PCB Terminal Blocks

### 39528

### Dual Level Vertical PCB Header



Open Ends

Closed Ends

#### Features and Benefits

- Offset dual level header allows easy access for wiring and testing on a crowded board
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39520 and 39523  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Open Ends  | Closed Ends |           |
| 4        | 39528-2004 | 39528-3004  | Yes       |
| 6        | 39528-2006 | 39528-3006  |           |
| 8        | 39528-2008 | 39528-3008  |           |
| 10       | 39528-2010 | 39528-3010  |           |
| 12       | 39528-2012 | 39528-3012  |           |
| 14       | 39528-2014 | 39528-3014  |           |
| 16       | 39528-2016 | 39528-3016  |           |
| 18       | 39528-2018 | 39528-3018  |           |
| 20       | 39528-2020 | 39528-3020  |           |
| 22       | 39528-2022 | 39528-3022  |           |
| 24       | 39528-2024 | 39528-3024  |           |
| 26       | 39528-2026 | 39528-3026  |           |

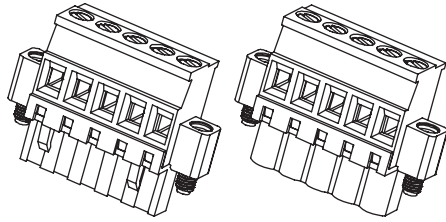
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Open Ends  | Closed Ends |           |
| 28       | 39528-2028 | 39528-3028  | Yes       |
| 30       | 39528-2030 | 39528-3030  |           |
| 32       | 39528-2032 | 39528-3032  |           |
| 34       | 39528-2034 | 39528-3034  |           |
| 36       | 39528-2036 | 39528-3036  |           |
| 38       | 39528-2038 | 39528-3038  |           |
| 40       | 39528-2040 | 39528-3040  |           |
| 42       | 39528-2042 | 39528-3042  |           |
| 44       | 39528-2044 | 39528-3044  |           |
| 46       | 39528-2046 | 39528-3046  |           |
| 48       | 39528-2048 | 39528-3048  |           |

# 5.00mm (.197") Pitch ESE Pluggable PCB Terminal Blocks

## 39527

### Vertical Plug with Retention Screws



Front Wire Entry

Rear Wire Entry

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 2        | 39527-3002       | 39527-2002      | Yes       |
| 3        | 39527-3003       | 39527-2003      |           |
| 4        | 39527-3004       | 39527-2004      |           |
| 5        | 39527-3005       | 39527-2005      |           |
| 6        | 39527-3006       | 39527-2006      |           |
| 7        | 39527-3007       | 39527-2007      |           |
| 8        | 39527-3008       | 39527-2008      |           |
| 9        | 39527-3009       | 39527-2009      |           |
| 10       | 39527-3010       | 39527-2010      |           |
| 11       | 39527-3011       | 39527-2011      |           |
| 12       | 39527-3012       | 39527-2012      |           |
| 13       | 39527-3013       | 39527-2013      |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39525 and 39526  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.45Nm (4 in.-lb)

#### Physical

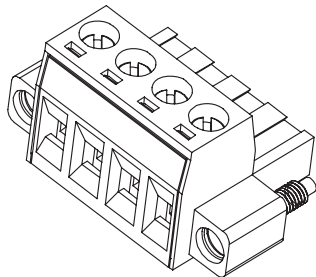
Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 14       | 39527-3014       | 39527-2014      | Yes       |
| 15       | 39527-3015       | 39527-2015      |           |
| 16       | 39527-3016       | 39527-2016      |           |
| 17       | 39527-3017       | 39527-2017      |           |
| 18       | 39527-3018       | 39527-2018      |           |
| 19       | 39527-3019       | 39527-2019      |           |
| 20       | 39527-3020       | 39527-2020      |           |
| 21       | 39527-3021       | 39527-2021      |           |
| 22       | 39527-3022       | 39527-2022      |           |
| 23       | 39527-3023       | 39527-2023      |           |
| 24       | 39527-3024       | 39527-2024      |           |

# 5.00mm (.197") Pitch ESE Pluggable PCB Terminal Blocks

## 39524

### Horizontal Plug with Retention Screws



#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39525 and 39526  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.45Nm (4 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39524-0002 | Yes       |
| 3        | 39524-0003 |           |
| 4        | 39524-0004 |           |
| 5        | 39524-0005 |           |
| 6        | 39524-0006 |           |
| 7        | 39524-0007 |           |
| 8        | 39524-0008 |           |
| 9        | 39524-0009 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39524-0010 | Yes       |
| 11       | 39524-0011 |           |
| 12       | 39524-0012 |           |
| 13       | 39524-0013 |           |
| 14       | 39524-0014 |           |
| 15       | 39524-0015 |           |
| 16       | 39524-0016 |           |
| 17       | 39524-0017 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39524-0018 | Yes       |
| 19       | 39524-0019 |           |
| 20       | 39524-0020 |           |
| 21       | 39524-0021 |           |
| 22       | 39524-0022 |           |
| 23       | 39524-0023 |           |
| 24       | 39524-0024 |           |

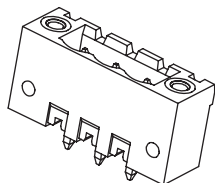
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

5.00mm (.197") Pitch

ESE

Pluggable PCB  
Terminal Blocks

39525

Vertical PCB Header  
with Threaded Retention Inserts

## Features and Benefits

- SMC PCB headers withstand reflow soldering temperatures
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39524 and 39527  
Designed In: Inches

## Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

## Physical

Housing: Polyamide 6/6, black  
SMC Headers—Polyamide 4/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  |                          | Lead-free |
|----------|------------|--------------------------|-----------|
|          | Standard   | Surface Mount Compatible |           |
| 2        | 39525-0002 | 39525-4002               | Yes       |
| 3        | 39525-0003 | 39525-4003               |           |
| 4        | 39525-0004 | 39525-4004               |           |
| 5        | 39525-0005 | 39525-4005               |           |
| 6        | 39525-0006 | 39525-4006               |           |
| 7        | 39525-0007 | 39525-4007               |           |
| 8        | 39525-0008 | 39525-4008               |           |
| 9        | 39525-0009 | 39525-4009               |           |
| 10       | 39525-0010 | 39525-4010               |           |
| 11       | 39525-0011 | 39525-4011               |           |
| 12       | 39525-0012 | 39525-4012               |           |
| 13       | 39525-0013 | 39525-4013               |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available. Contact Molex for order numbers. Please refer to sales drawing for additional order numbers (available on the web).

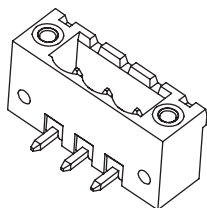
| Circuits | Order No.  |                          | Lead-free |
|----------|------------|--------------------------|-----------|
|          | Standard   | Surface Mount Compatible |           |
| 14       | 39525-0014 | 39525-4014               | Yes       |
| 15       | 39525-0015 | 39525-4015               |           |
| 16       | 39525-0016 | 39525-4016               |           |
| 17       | 39525-0017 | 39525-4017               |           |
| 18       | 39525-0018 | 39525-4018               |           |
| 19       | 39525-0019 | 39525-4019               |           |
| 20       | 39525-0020 | 39525-4020               |           |
| 21       | 39525-0021 | 39525-4021               |           |
| 22       | 39525-0022 | 39525-4022               |           |
| 23       | 39525-0023 | 39525-4023               |           |
| 24       | 39525-0024 | 39525-4024               |           |

5.00mm (.197") Pitch

ESE

Pluggable PCB  
Terminal Blocks

39526

Horizontal PCB Header  
with Threaded Retention Inserts

## Features and Benefits

- SMC PCB headers withstand reflow soldering temperatures
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39524 and 39527  
Designed In: Inches

## Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

## Physical

Housing: Polyamide 6/6, black  
SMC Headers—Polyamide 4/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

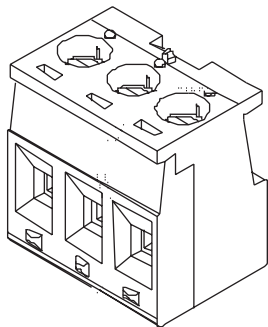
| Circuits | Order No.  |                          | Lead-free |
|----------|------------|--------------------------|-----------|
|          | Standard   | Surface Mount Compatible |           |
| 2        | 39526-0002 | 39526-4002               | Yes       |
| 3        | 39526-0003 | 39526-4003               |           |
| 4        | 39526-0004 | 39526-4004               |           |
| 5        | 39526-0005 | 39526-4005               |           |
| 6        | 39526-0006 | 39526-4006               |           |
| 7        | 39526-0007 | 39526-4007               |           |
| 8        | 39526-0008 | 39526-4008               |           |
| 9        | 39526-0009 | 39526-4009               |           |
| 10       | 39526-0010 | 39526-4010               |           |
| 11       | 39526-0011 | 39526-4011               |           |
| 12       | 39526-0012 | 39526-4012               |           |
| 13       | 39526-0013 | 39526-4013               |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available. Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.  |                          | Lead-free |
|----------|------------|--------------------------|-----------|
|          | Standard   | Surface Mount Compatible |           |
| 14       | 39526-0014 | 39526-4014               | Yes       |
| 15       | 39526-0015 | 39526-4015               |           |
| 16       | 39526-0016 | 39526-4016               |           |
| 17       | 39526-0017 | 39526-4017               |           |
| 18       | 39526-0018 | 39526-4018               |           |
| 19       | 39526-0019 | 39526-4019               |           |
| 20       | 39526-0020 | 39526-4020               |           |
| 21       | 39526-0021 | 39526-4021               |           |
| 22       | 39526-0022 | 39526-4022               |           |
| 23       | 39526-0023 | 39526-4023               |           |
| 24       | 39526-0024 | 39526-4024               |           |

# 5.08mm (.200") Pitch Beau™ Eurostyle™ Pluggable PCB Terminal Blocks Positive Locking System

**39980/39981**  
**Vertical Plug**



## Features and Benefits

- Unique latching system resists vibration and provides audible and visual indication when mating
- Screwdriver required to unmate, preventing the accidental unmating of critical circuits
- Polarization feature eliminates the potential for mis-mating and facilitates blind mating
- Rising cage clamp holds wires for secure, reliable contact

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Mates With: 39980 and 39981 PCB headers

## Electrical

Voltage: 300V  
Current: 10.0A  
Insulation Resistance: 5000 Megohms min.

## Mechanical

Recommended Tightening Torque: 0.56Nm (5.0 in-lb.)

## Physical

Housing: Polyamide 6/6, black  
Terminal: Bronze  
Screw: Steel, M3  
Cage Clamp: Brass  
Plating: Terminal—Tin or Gold  
Screw—Zinc with clear chromate  
Cage Clamp—Nickel  
Wire Range: 14 to 24 AWG  
Operating Temperature: -40°C to +105°C

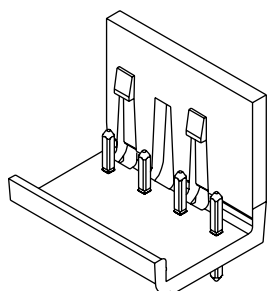
| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Tin Plated | Gold Plated |           |
| 2        | 39980-0302 | 39981-0302  | Yes       |
| 3        | 39980-0303 | 39981-0303  |           |
| 4        | 39980-0304 | 39981-0304  |           |
| 5        | 39980-0305 | 39981-0305  |           |
| 6        | 39980-0306 | 39981-0306  |           |
| 7        | 39980-0307 | 39981-0307  |           |
| 8        | 39980-0308 | 39981-0308  |           |
| 9        | 39980-0309 | 39981-0309  |           |
| 10       | 39980-0310 | 39981-0310  |           |
| 11       | 39980-0311 | 39981-0311  |           |
| 12       | 39980-0312 | 39981-0312  |           |
| 13       | 39980-0313 | 39981-0313  |           |

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Tin Plated | Gold Plated |           |
| 14       | 39980-0314 | 39981-0314  | Yes       |
| 15       | 39980-0315 | 39981-0315  |           |
| 16       | 39980-0316 | 39981-0316  |           |
| 17       | 39980-0317 | 39981-0317  |           |
| 18       | 39980-0318 | 39981-0318  |           |
| 19       | 39980-0319 | 39981-0319  |           |
| 20       | 39980-0320 | 39981-0320  |           |
| 21       | 39980-0321 | 39981-0321  |           |
| 22       | 39980-0322 | 39981-0322  |           |
| 23       | 39980-0323 | 39981-0323  |           |
| 24       | 39980-0324 | 39981-0324  |           |

# 5.08mm (.200") Pitch Beau™ Eurostyle™ Pluggable PCB Terminal Blocks Positive Locking System

## 39980/39981

## Vertical PCB Header



### Features and Benefits

- Unique latching system resists vibration and provides audible and visual indication when mating
- Screwdriver required to unmate, preventing the accidental unmating of critical circuits
- Polarization feature eliminates the potential for mis-mating and facilitates blind mating

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Mates With: 39980 and 39981 Plugs

### Electrical

Voltage: 300V  
Current: 10.0A  
Insulation Resistance: 5,000 Megohms min.

### Physical

Housing: Ployamide 6/6, black  
Terminal: Brass  
Plating: Tin or Gold  
Operating Temperature: -40°C to +105°C

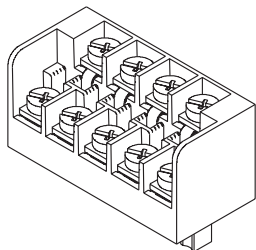
| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Tin Plated | Gold Plated |           |
| 2        | 39980-0402 | 39981-0402  | Yes       |
| 3        | 39980-0403 | 39981-0403  |           |
| 4        | 39980-0404 | 39981-0404  |           |
| 5        | 39980-0405 | 39981-0405  |           |
| 6        | 39980-0406 | 39981-0406  |           |
| 7        | 39980-0407 | 39981-0407  |           |
| 8        | 39980-0408 | 39981-0408  |           |
| 9        | 39980-0409 | 39981-0409  |           |
| 10       | 39980-0410 | 39981-0410  |           |
| 11       | 39980-0411 | 39981-0411  |           |
| 12       | 39980-0412 | 39981-0412  |           |
| 13       | 39980-0413 | 39981-0413  |           |

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Tin Plated | Gold Plated |           |
| 14       | 39980-0414 | 39981-0414  | Yes       |
| 15       | 39980-0415 | 39981-0415  |           |
| 16       | 39980-0416 | 39981-0416  |           |
| 17       | 39980-0417 | 39981-0417  |           |
| 18       | 39980-0418 | 39981-0418  |           |
| 19       | 39980-0419 | 39981-0419  |           |
| 20       | 39980-0420 | 39981-0420  |           |
| 21       | 39980-0421 | 39981-0421  |           |
| 22       | 39980-0422 | 39981-0422  |           |
| 23       | 39980-0423 | 39981-0423  |           |
| 24       | 39980-0424 | 39981-0424  |           |

# 5.08 mm (.200") Pitch Beau™ EuroMate™ Pluggable PCB Terminal Blocks

## 39940

### Vertical Plug Rear and Front Wire Entry



#### Features and Benefits

- Pluggable barrier strip combines the benefits of pluggable Eurostyle design and the flexibility of barrier terminal strips
- Wiring terminals are staggered and offset vertically to facilitate easier wiring access
- Rear barrier prevents over-insertion of wire into terminal block
- Single row of female contacts interface with industry standard Eurostyle PCB headers, which produces twice the pitch at the wiring terminal

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Mates With: Most industry standard 5.08mm (.200") pitch PCB headers

#### Electrical

Voltage: 300V  
Current: 15.0A  
Insulation Resistance: 5000 Megohms min

#### Mechanical

Recommended Tightening Torque: 0.79Nm (7.0 in-lb.)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Copper  
Screw With Square Washer: Steel, M3.5  
Plating: Terminal—Tin  
Screw—Zinc with clear Chromate  
Wire Range: 12 to 22 AWG  
Operating Temperature: -40°C to +120°C

| Circuits | Order No.       |                  | Lead-free |
|----------|-----------------|------------------|-----------|
|          | Rear Wire Entry | Front Wire Entry |           |
| 3        | 39940-0203      | 39940-0303       | Yes       |
| 4        | 39940-0204      | 39940-0304       |           |
| 5        | 39940-0205      | 39940-0305       |           |
| 6        | 39940-0206      | 39940-0306       |           |
| 7        | 39940-0207      | 39940-0307       |           |
| 8        | 39940-0208      | 39940-0308       |           |
| 9        | 39940-0209      | 39940-0309       |           |
| 10       | 39940-0210      | 39940-0310       |           |
| 11       | 39940-0211      | 39940-0311       |           |
| 12       | 39940-0212      | 39940-0312       |           |
| 13       | 39940-0213      | 39940-0313       |           |

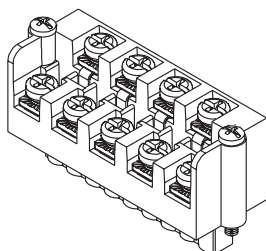
Note: Gold plating available. Contact your local Molex sales representative or distributor for order number.

| Circuits | Order No.       |                  | Lead-free |
|----------|-----------------|------------------|-----------|
|          | Rear Wire Entry | Front Wire Entry |           |
| 14       | 39940-0214      | 39940-0314       | Yes       |
| 15       | 39940-0215      | 39940-0315       |           |
| 16       | 39940-0216      | 39940-0316       |           |
| 17       | 39940-0217      | 39940-0317       |           |
| 18       | 39940-0218      | 39940-0318       |           |
| 19       | 39940-0219      | 39940-0319       |           |
| 20       | 39940-0220      | 39940-0320       |           |
| 21       | 39940-0221      | 39940-0321       |           |
| 22       | 39940-0222      | 39940-0322       |           |
| 23       | 39940-0223      | 39940-0323       |           |
| 24       | 39940-0224      | 39940-0324       |           |

# 5.08mm (.200") Pitch Beau™ EuroMate™ Pluggable PCB Terminal Blocks

## 39940

### Vertical Plug with Mounting Ends Rear and Front Wire Entry



#### Features and Benefits

- Pluggable barrier strip combines the benefits of pluggable Eurostyle design and the flexibility of barrier terminal strips
- Wiring terminals are staggered and offset vertically to facilitate easier wiring access
- Rear barrier prevents over-insertion of wire into terminal block
- Single row of female contacts interface with industry standard Eurostyle PCB headers, which produces twice the pitch at the wiring terminal

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Mates With: Most industry standard 5.08mm (.200") pitch PCB headers

#### Electrical

Voltage: 300V  
Current: 15.0A  
Insulation Resistance: 5000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.79Nm (7.0 in-lb.)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Bronze  
Screw with Square Washer: Steel, M3.5  
Plating: Terminal—Tin  
Screw—Zinc with yellow chromate  
Wire Range: 12 to 22 AWG  
Operating Temperature: -40°C to +120°C

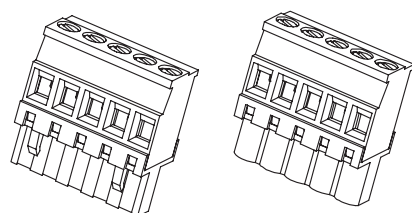
| Circuits | Order No.       |                  | Lead-free |
|----------|-----------------|------------------|-----------|
|          | Rear Wire Entry | Front Wire Entry |           |
| 3        | 39940-0403      | 39940-0503       |           |
| 4        | 39940-0404      | 39940-0504       |           |
| 5        | 39940-0405      | 39940-0505       |           |
| 6        | 39940-0406      | 39940-0506       |           |
| 7        | 39940-0407      | 39940-0507       |           |
| 8        | 39940-0408      | 39940-0508       |           |
| 9        | 39940-0409      | 39940-0509       |           |
| 10       | 39940-0410      | 39940-0510       |           |
| 11       | 39940-0411      | 39940-0511       |           |
| 12       | 39940-0412      | 39940-0512       |           |
| 13       | 39940-0413      | 39940-0513       |           |

Note: Gold plating available. Contact your local Molex sales representative or distributor for order number.

| Circuits | Order No.       |                  | Lead-free |
|----------|-----------------|------------------|-----------|
|          | Rear Wire Entry | Front Wire Entry |           |
| 14       | 39940-0414      | 39940-0514       |           |
| 15       | 39940-0415      | 39940-0515       |           |
| 16       | 39940-0416      | 39940-0516       |           |
| 17       | 39940-0417      | 39940-0517       |           |
| 18       | 39940-0418      | 39940-0518       |           |
| 19       | 39940-0419      | 39940-0519       |           |
| 20       | 39940-0420      | 39940-0520       |           |
| 21       | 39940-0421      | 39940-0521       |           |
| 22       | 39940-0422      | 39940-0522       |           |
| 23       | 39940-0423      | 39940-0523       |           |
| 24       | 39940-0424      | 39940-0524       |           |

# 5.08mm (.200") Pitch ESE Pluggable PCB Terminal Blocks

## 39533 Vertical Plug



Front Wire Entry

Rear Wire Entry

### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With:  
39531, 39532 and 39538  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

### Mechanical

Recommended Tightening Torque: 0.45Nm (4 in.-lb)

### Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40 to +115°C

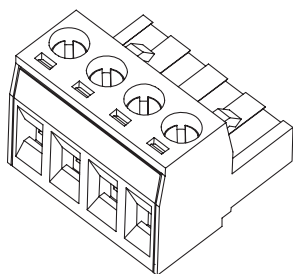
| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 2        | 39533-3002       | 39533-2002      | Yes       |
| 3        | 39533-3003       | 39533-2003      |           |
| 4        | 39533-3004       | 39533-2004      |           |
| 5        | 39533-3005       | 39533-2005      |           |
| 6        | 39533-3006       | 39533-2006      |           |
| 7        | 39533-3007       | 39533-2007      |           |
| 8        | 39533-3008       | 39533-2008      |           |
| 9        | 39533-3009       | 39533-2009      |           |
| 10       | 39533-3010       | 39533-2010      |           |
| 11       | 39533-3011       | 39533-2011      |           |
| 12       | 39533-3012       | 39533-2012      |           |
| 13       | 39533-3013       | 39533-2013      |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 14       | 39533-3014       | 39533-2014      | Yes       |
| 15       | 39533-3015       | 39533-2015      |           |
| 16       | 39533-3016       | 39533-2016      |           |
| 17       | 39533-3017       | 39533-2017      |           |
| 18       | 39533-3018       | 39533-2018      |           |
| 19       | 39533-3019       | 39533-2019      |           |
| 20       | 39533-3020       | 39533-2020      |           |
| 21       | 39533-3021       | 39533-2021      |           |
| 22       | 39533-3022       | 39533-2022      |           |
| 23       | 39533-3023       | 39533-2023      |           |
| 24       | 39533-3024       | 39533-2024      |           |

# 5.08mm (.200") Pitch ESE Pluggable PCB Terminal Blocks

## 39530 Horizontal Plug



### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39531, 39532 and 39538  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

### Mechanical

Recommended Tightening Torque: 0.45Nm (4 in.-lb)

### Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39530-0002 | Yes       |
| 3        | 39530-0003 |           |
| 4        | 39530-0004 |           |
| 5        | 39530-0005 |           |
| 6        | 39530-0006 |           |
| 7        | 39530-0007 |           |
| 8        | 39530-0008 |           |
| 9        | 39530-0009 |           |

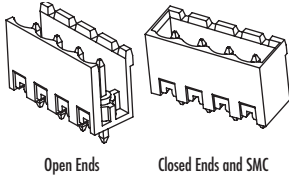
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39530-0010 | Yes       |
| 11       | 39530-0011 |           |
| 12       | 39530-0012 |           |
| 13       | 39530-0013 |           |
| 14       | 39530-0014 |           |
| 15       | 39530-0015 |           |
| 16       | 39530-0016 |           |
| 17       | 39530-0017 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39530-0018 | Yes       |
| 19       | 39530-0019 |           |
| 20       | 39530-0020 |           |
| 21       | 39530-0021 |           |
| 22       | 39530-0022 |           |
| 23       | 39530-0023 |           |
| 24       | 39530-0024 |           |

# 5.08mm (.200") Pitch ESE Pluggable PCB Terminal Blocks

## 39531 Vertical PCB Header



### Features and Benefits

- SMC PCB headers withstand reflow soldering temperatures
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39530 and 39533  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

### Physical

Housing: Polyamide 6/6, black  
SMC Headers—Polyamide 4/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

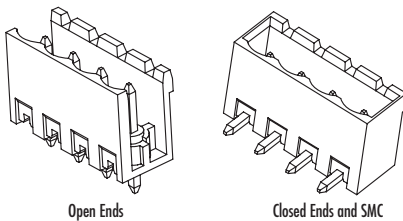
| Circuits | Order No.  |             |                          | Lead-free |
|----------|------------|-------------|--------------------------|-----------|
|          | Open Ends  | Closed Ends | Surface Mount Compatible |           |
| 2        | 39531-0002 | 39531-1002  | 39531-4002               | Yes       |
| 3        | 39531-0003 | 39531-1003  | 39531-4003               |           |
| 4        | 39531-0004 | 39531-1004  | 39531-4004               |           |
| 5        | 39531-0005 | 39531-1005  | 39531-4005               |           |
| 6        | 39531-0006 | 39531-1006  | 39531-4006               |           |
| 7        | 39531-0007 | 39531-1007  | 39531-4007               |           |
| 8        | 39531-0008 | 39531-1008  | 39531-4008               |           |
| 9        | 39531-0009 | 39531-1009  | 39531-4009               |           |
| 10       | 39531-0010 | 39531-1010  | 39531-4010               |           |
| 11       | 39531-0011 | 39531-1011  | 39531-4011               |           |
| 12       | 39531-0012 | 39531-1012  | 39531-4012               |           |
| 13       | 39531-0013 | 39531-1013  | 39531-4013               |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.  |             |                          | Lead-free |
|----------|------------|-------------|--------------------------|-----------|
|          | Open Ends  | Closed Ends | Surface Mount Compatible |           |
| 14       | 39531-0014 | 39531-1014  | 39531-4014               | Yes       |
| 15       | 39531-0015 | 39531-1015  | 39531-4015               |           |
| 16       | 39531-0016 | 39531-1016  | 39531-4016               |           |
| 17       | 39531-0017 | 39531-1017  | 39531-4017               |           |
| 18       | 39531-0018 | 39531-1018  | 39531-4018               |           |
| 19       | 39531-0019 | 39531-1019  | 39531-4019               |           |
| 20       | 39531-0020 | 39531-1020  | 39531-4020               |           |
| 21       | 39531-0021 | 39531-1021  | 39531-4021               |           |
| 22       | 39531-0022 | 39531-1022  | 39531-4022               |           |
| 23       | 39531-0023 | 39531-1023  | 39531-4023               |           |
| 24       | 39531-0024 | 39531-1024  | 39531-4024               |           |

# 5.08mm (.200") Pitch ESE Pluggable PCB Terminal Blocks

## 39532 Horizontal PCB Header



### Features and Benefits

- SMC PCB headers withstand reflow soldering temperatures
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39530 and 39533  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

### Physical

Housing: Polyamide 6/6, black  
SMC Headers—Polyamide 4/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  |             |                          | Lead-free |
|----------|------------|-------------|--------------------------|-----------|
|          | Open Ends  | Closed Ends | Surface Mount Compatible |           |
| 2        | 39532-0002 | 39532-1002  | 39532-4002               | Yes       |
| 3        | 39532-0003 | 39532-1003  | 39532-4003               |           |
| 4        | 39532-0004 | 39532-1004  | 39532-4004               |           |
| 5        | 39532-0005 | 39532-1005  | 39532-4005               |           |
| 6        | 39532-0006 | 39532-1006  | 39532-4006               |           |
| 7        | 39532-0007 | 39532-1007  | 39532-4007               |           |
| 8        | 39532-0008 | 39532-1008  | 39532-4008               |           |
| 9        | 39532-0009 | 39532-1009  | 39532-4009               |           |
| 10       | 39532-0010 | 39532-1010  | 39532-4010               |           |
| 11       | 39532-0011 | 39532-1011  | 39532-4011               |           |
| 12       | 39532-0012 | 39532-1012  | 39532-4012               |           |
| 13       | 39532-0013 | 39532-1013  | 39532-4013               |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.  |             |                          | Lead-free |
|----------|------------|-------------|--------------------------|-----------|
|          | Open Ends  | Closed Ends | Surface Mount Compatible |           |
| 14       | 39532-0014 | 39532-1014  | 39532-4014               | Yes       |
| 15       | 39532-0015 | 39532-1015  | 39532-4015               |           |
| 16       | 39532-0016 | 39532-1016  | 39532-4016               |           |
| 17       | 39532-0017 | 39532-1017  | 39532-4017               |           |
| 18       | 39532-0018 | 39532-1018  | 39532-4018               |           |
| 19       | 39532-0019 | 39532-1019  | 39532-4019               |           |
| 20       | 39532-0020 | 39532-1020  | 39532-4020               |           |
| 21       | 39532-0021 | 39532-1021  | 39532-4021               |           |
| 22       | 39532-0022 | 39532-1022  | 39532-4022               |           |
| 23       | 39532-0023 | 39532-1023  | 39532-4023               |           |
| 24       | 39532-0024 | 39532-1024  | 39532-4024               |           |

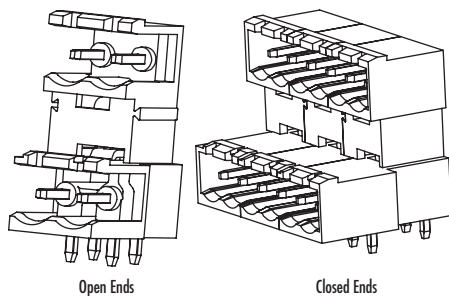
# 5.08mm (.200") Pitch

## ESE

## Pluggable PCB Terminal Blocks

### 39538

### Dual Level Horizontal PCB Header



Open Ends

Closed Ends

#### Features and Benefits

- Offset dual level header allows easy access for wiring and testing on a crowded board
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39530 and 39533  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Open Ends  | Closed Ends |           |
| 4        | 39538-0004 | 39538-1004  | Yes       |
| 6        | 39538-0006 | 39538-1006  |           |
| 8        | 39538-0008 | 39538-1008  |           |
| 10       | 39538-0010 | 39538-1010  |           |
| 12       | 39538-0012 | 39538-1012  |           |
| 14       | 39538-0014 | 39538-1014  |           |
| 16       | 39538-0016 | 39538-1016  |           |
| 18       | 39538-0018 | 39538-1018  |           |
| 20       | 39538-0020 | 39538-1020  |           |
| 22       | 39538-0022 | 39538-1022  |           |
| 24       | 39538-0024 | 39538-1024  |           |
| 26       | 39538-0026 | 39538-1026  |           |

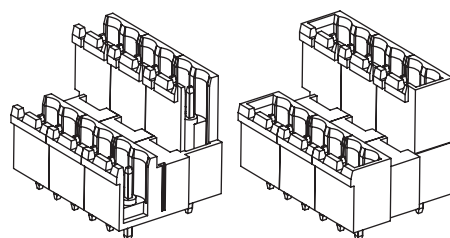
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Open Ends  | Closed Ends |           |
| 28       | 39538-0028 | 39538-1028  | Yes       |
| 30       | 39538-0030 | 39538-1030  |           |
| 32       | 39538-0032 | 39538-1032  |           |
| 34       | 39538-0034 | 39538-1034  |           |
| 36       | 39538-0036 | 39538-1036  |           |
| 38       | 39538-0038 | 39538-1038  |           |
| 40       | 39538-0040 | 39538-1040  |           |
| 42       | 39538-0042 | 39538-1042  |           |
| 44       | 39538-0044 | 39538-1044  |           |
| 46       | 39538-0046 | 39538-1046  |           |
| 48       | 39538-0048 | 39538-1048  |           |

# 5.08mm (.200") Pitch ESE Pluggable PCB Terminal Blocks

**39538**

## Dual Level Vertical PCB Header



Open Ends

Closed Ends

### Features and Benefits

- Offset dual level header allows easy access for wiring and testing on a crowded board
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39530 and 39533  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Open Ends  | Closed Ends |           |
| 4        | 39538-2004 | 39538-3004  | Yes       |
| 6        | 39538-2006 | 39538-3006  |           |
| 8        | 39538-2008 | 39538-3008  |           |
| 10       | 39538-2010 | 39538-3010  |           |
| 12       | 39538-2012 | 39538-3012  |           |
| 14       | 39538-2014 | 39538-3014  |           |
| 16       | 39538-2016 | 39538-3016  |           |
| 18       | 39538-2018 | 39538-3018  |           |
| 20       | 39538-2020 | 39538-3020  |           |
| 22       | 39538-2022 | 39538-3022  |           |
| 24       | 39538-2024 | 39538-3024  |           |
| 26       | 39538-2026 | 39538-3026  |           |

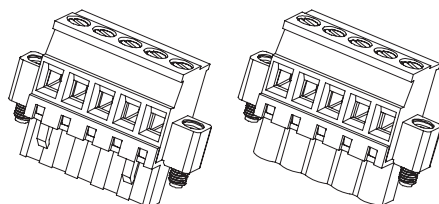
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.  |             | Lead-free |
|----------|------------|-------------|-----------|
|          | Open Ends  | Closed Ends |           |
| 28       | 39538-2028 | 39538-3028  | Yes       |
| 30       | 39538-2030 | 39538-3030  |           |
| 32       | 39538-2032 | 39538-3032  |           |
| 34       | 39538-2034 | 39538-3034  |           |
| 36       | 39538-2036 | 39538-3036  |           |
| 38       | 39538-2038 | 39538-3038  |           |
| 40       | 39538-2040 | 39538-3040  |           |
| 42       | 39538-2042 | 39538-3042  |           |
| 44       | 39538-2044 | 39538-3044  |           |
| 46       | 39538-2046 | 39538-3046  |           |
| 48       | 39538-2048 | 39538-3048  |           |

## 5.08mm (.200") Pitch ESE Pluggable PCB Terminal Blocks

### 39537

### Vertical Plug with Retention Screws



Front Wire Entry

Rear Wire Entry

#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismating

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39535 and 39536  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.45Nm (4 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 2        | 39537-3002       | 39537-2002      | Yes       |
| 3        | 39537-3003       | 39537-2003      |           |
| 4        | 39537-3004       | 39537-2004      |           |
| 5        | 39537-3005       | 39537-2005      |           |
| 6        | 39537-3006       | 39537-2006      |           |
| 7        | 39537-3007       | 39537-2007      |           |
| 8        | 39537-3008       | 39537-2008      |           |
| 9        | 39537-3009       | 39537-2009      |           |
| 10       | 39537-3010       | 39537-2010      |           |
| 11       | 39537-3011       | 39537-2011      |           |
| 12       | 39537-3012       | 39537-2012      |           |
| 13       | 39537-3013       | 39537-2013      |           |

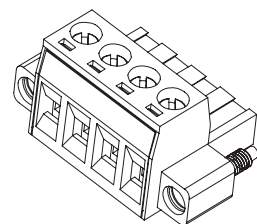
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 14       | 39537-3014       | 39537-2014      | Yes       |
| 15       | 39537-3015       | 39537-2015      |           |
| 16       | 39537-3016       | 39537-2016      |           |
| 17       | 39537-3017       | 39537-2017      |           |
| 18       | 39537-3018       | 39537-2018      |           |
| 19       | 39537-3019       | 39537-2019      |           |
| 20       | 39537-3020       | 39537-2020      |           |
| 21       | 39537-3021       | 39537-2021      |           |
| 22       | 39537-3022       | 39537-2022      |           |
| 23       | 39537-3023       | 39537-2023      |           |
| 24       | 39537-3024       | 39537-2024      |           |

## 5.08mm (.200") Pitch ESE Pluggable PCB Terminal Blocks

### 39534

### Horizontal Plug with Retention Screws



#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismating

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39535 and 39536  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.45Nm (4 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Phosphor Bronze  
Cage Clamp: Brass  
Screw: Steel, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39534-0002 | Yes       |
| 3        | 39534-0003 |           |
| 4        | 39534-0004 |           |
| 5        | 39534-0005 |           |
| 6        | 39534-0006 |           |
| 7        | 39534-0007 |           |
| 8        | 39534-0008 |           |
| 9        | 39534-0009 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39534-0010 | Yes       |
| 11       | 39534-0011 |           |
| 12       | 39534-0012 |           |
| 13       | 39534-0013 |           |
| 14       | 39534-0014 |           |
| 15       | 39534-0015 |           |
| 16       | 39534-0016 |           |
| 17       | 39534-0017 |           |

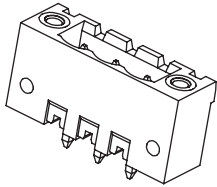
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39534-0018 | Yes       |
| 19       | 39534-0019 |           |
| 20       | 39534-0020 |           |
| 21       | 39534-0021 |           |
| 22       | 39534-0022 |           |
| 23       | 39534-0023 |           |
| 24       | 39534-0024 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available. Contact Molex for order numbers.  
Please refer to sales drawing for additional order numbers (available on the web).

# 5.08mm (.200") Pitch ESE Pluggable PCB Terminal Blocks

## 39535

### Vertical PCB Header with Threaded Retention Inserts



#### Features and Benefits

- SMC PCB headers withstand reflow soldering temperatures
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39534 and 39537  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

#### Physical

Housing: Polyamide 6/6, black  
SMC Headers—Polyamide 4/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

| Circuits | Order No.   |                          | Lead-free |
|----------|-------------|--------------------------|-----------|
|          | Closed Ends | Surface Mount Compatible |           |
| 2        | 39535-0002  | 39535-4002               | Yes       |
| 3        | 39535-0003  | 39535-4003               |           |
| 4        | 39535-0004  | 39535-4004               |           |
| 5        | 39535-0005  | 39535-4005               |           |
| 6        | 39535-0006  | 39535-4006               |           |
| 7        | 39535-0007  | 39535-4007               |           |
| 8        | 39535-0008  | 39535-4008               |           |
| 9        | 39535-0009  | 39535-4009               |           |
| 10       | 39535-0010  | 39535-4010               |           |
| 11       | 39535-0011  | 39535-4011               |           |
| 12       | 39535-0012  | 39535-4012               |           |
| 13       | 39535-0013  | 39535-4013               |           |

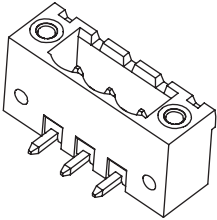
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.   |                          | Lead-free |
|----------|-------------|--------------------------|-----------|
|          | Closed Ends | Surface Mount Compatible |           |
| 14       | 39535-0014  | 39535-4014               | Yes       |
| 15       | 39535-0015  | 39535-4015               |           |
| 16       | 39535-0016  | 39535-4016               |           |
| 17       | 39535-0017  | 39535-4017               |           |
| 18       | 39535-0018  | 39535-4018               |           |
| 19       | 39535-0019  | 39535-4019               |           |
| 20       | 39535-0020  | 39535-4020               |           |
| 21       | 39535-0021  | 39535-4021               |           |
| 22       | 39535-0022  | 39535-4022               |           |
| 23       | 39535-0023  | 39535-4023               |           |
| 24       | 39535-0024  | 39535-4024               |           |

# 5.08mm (.200") Pitch ESE Pluggable PCB Terminal Blocks

## 39536

### Horizontal PCB Header with Threaded Retention Inserts



#### Features and Benefits

- SMC PCB headers withstand reflow soldering temperatures
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Polarized to prevent mismatching

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Mates With: 39534 and 39537  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 18.0A  
Insulation Resistance: 500 Megohms min.

#### Physical

Housing: Polyamide 6/6, black  
SMC Headers—Polyamide 4/6, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +115°C

| Circuits | Order No.   |                          | Lead-free |
|----------|-------------|--------------------------|-----------|
|          | Closed Ends | Surface Mount Compatible |           |
| 2        | 39536-0002  | 39536-4002               | Yes       |
| 3        | 39536-0003  | 39536-4003               |           |
| 4        | 39536-0004  | 39536-4004               |           |
| 5        | 39536-0005  | 39536-4005               |           |
| 6        | 39536-0006  | 39536-4006               |           |
| 7        | 39536-0007  | 39536-4007               |           |
| 8        | 39536-0008  | 39536-4008               |           |
| 9        | 39536-0009  | 39536-4009               |           |
| 10       | 39536-0010  | 39536-4010               |           |
| 11       | 39536-0011  | 39536-4011               |           |
| 12       | 39536-0012  | 39536-4012               |           |
| 13       | 39536-0013  | 39536-4013               |           |

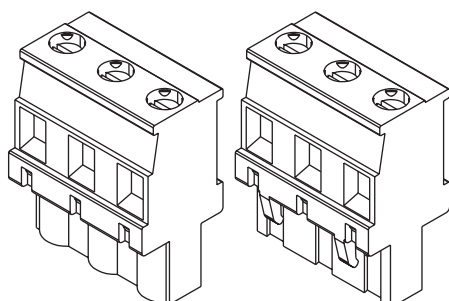
Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

| Circuits | Order No.   |                          | Lead-free |
|----------|-------------|--------------------------|-----------|
|          | Closed Ends | Surface Mount Compatible |           |
| 14       | 39536-0014  | 39536-4014               | Yes       |
| 15       | 39536-0015  | 39536-4015               |           |
| 16       | 39536-0016  | 39536-4016               |           |
| 17       | 39536-0017  | 39536-4017               |           |
| 18       | 39536-0018  | 39536-4018               |           |
| 19       | 39536-0019  | 39536-4019               |           |
| 20       | 39536-0020  | 39536-4020               |           |
| 21       | 39536-0021  | 39536-4021               |           |
| 22       | 39536-0022  | 39536-4022               |           |
| 23       | 39536-0023  | 39536-4023               |           |
| 24       | 39536-0024  | 39536-4024               |           |

## 7.50mm (.295") Pitch Beau™ Eurostyle™ Pluggable PCB Terminal Blocks

### 39374

#### Vertical Plug Front and Rear Wire Entry



Rear Wire Entry

Front Wire Entry

#### Features and Benefits

- Latches secure plug to PCB header for a reliable connection
- Funnel entry housing provides easier wire insertion
- Rising cage clamp termination provides gas-tight connection without strand damage or intermittence

#### Reference Information

Packaging: Box  
UL File No.: E48521  
Flammability: UL 94V-0  
Mates With: 39372 and 39373  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 12.0A (15.0A with 12 AWG)  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.79Nm (7 in.-lbs)

#### Physical

Housing: Polyamide 6/6  
Terminal: Phosphor Bronze  
Cage Clamp: Copper Alloy  
Screw: Copper Alloy, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Nickel  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40 to +105°C

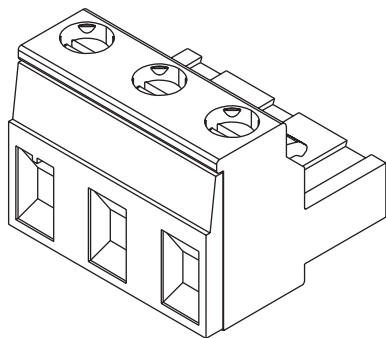
| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 2        | 39374-0902       | 39374-0802      | Yes       |
| 3        | 39374-0903       | 39374-0803      |           |
| 4        | 39374-0904       | 39374-0804      |           |
| 5        | 39374-0905       | 39374-0805      |           |
| 6        | 39374-0906       | 39374-0806      |           |
| 7        | 39374-0907       | 39374-0807      |           |

| Circuits | Order No.        |                 | Lead-free |
|----------|------------------|-----------------|-----------|
|          | Front Wire Entry | Rear Wire Entry |           |
| 8        | 39374-0908       | 39374-0808      | Yes       |
| 9        | 39374-0909       | 39374-0809      |           |
| 10       | 39374-0910       | 39374-0810      |           |
| 11       | 39374-0911       | 39374-0811      |           |
| 12       | 39374-0912       | 39374-0812      |           |

## 7.50mm (.295") Pitch Beau™ Eurostyle™ Pluggable PCB Terminal Blocks

### 39371

#### Horizontal Plug



#### Features and Benefits

- Latches secure plug to PCB header for a reliable connection
- Funnel entry housing provides easier wire insertion
- Rising cage clamp termination provides gas-tight connection without strand damage or intermittence

#### Reference Information

Packaging: Box  
UL File No.: E48521  
Flammability: UL 94V-0  
Mates With: 39372 and 39373  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 12.0A (15.0A with 12AWG)  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.79Nm (7 in.-lb)

#### Physical

Housing: Polyamide 6/6  
Terminal: Phosphor Bronze  
Cage Clamp: Copper Alloy, M3  
Screw: Copper Alloy  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Nickel  
Wire Range: 14 to 30 AWG  
Operating Temperature: -40 to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39371-0002 | Yes       |
| 3        | 39371-0003 |           |
| 4        | 39371-0004 |           |
| 5        | 39371-0005 |           |

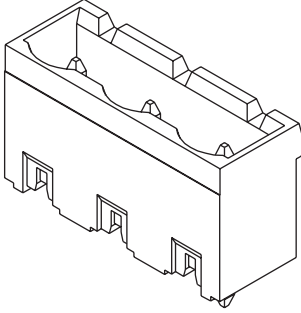
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 6        | 39371-0006 | Yes       |
| 7        | 39371-0007 |           |
| 8        | 39371-0008 |           |
| 9        | 39371-0009 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39371-0010 | Yes       |
| 11       | 39371-0011 |           |
| 12       | 39371-0012 |           |

## 7.50mm (.295") Pitch Beau™ Eurostyle™ Pluggable PCB Terminal Blocks

### 39372

#### Vertical PCB Header



#### Features and Benefits

- Polarized PCB header prevents mis-mating
- Friction ramp secures PCB header to the plug for a reliable connection

#### Reference Information

Packaging: Box  
UL File No.: E48521  
Flammability: UL 94V-0  
Mates With: 39371 and 39374  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 15.0A  
Insulation Resistance: 1000 Megohms min.

#### Physical

Housing: Polyamide 6/6  
Terminal: Phosphor Bronze  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39372-0002 | Yes       |
| 3        | 39372-0003 |           |
| 4        | 39372-0004 |           |
| 5        | 39372-0005 |           |

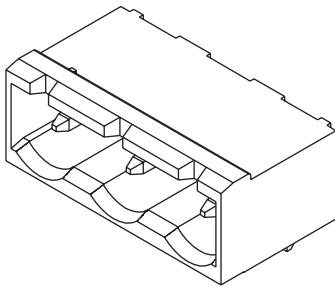
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 6        | 39372-0006 | Yes       |
| 7        | 39372-0007 |           |
| 8        | 39372-0008 |           |
| 9        | 39372-0009 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39372-0010 | Yes       |
| 11       | 39372-0011 |           |
| 12       | 39372-0012 |           |

## 7.50mm (.295") Pitch Beau™ Eurostyle™ Pluggable PCB Terminal Blocks

### 39373

#### Horizontal PCB Header



#### Features and Benefits

- Polarized PCB header prevents mis-mating
- Friction ramp secures PCB header to the plug for a reliable connection

#### Reference Information

Packaging: Box  
UL File No.: E48521  
Flammability: UL 94V-0  
Mates With: 39371 and 39374  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 15.0A  
Insulation Resistance: 1000 Megohms min.

#### Physical

Housing: Polyamide 6/6  
Terminal: Phosphor Bronze  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +105°C

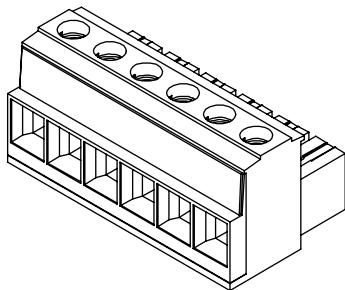
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39373-0002 | Yes       |
| 3        | 39373-0003 |           |
| 4        | 39373-0004 |           |
| 5        | 39373-0005 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 6        | 39373-0006 | Yes       |
| 7        | 39373-0007 |           |
| 8        | 39373-0008 |           |
| 9        | 39373-0009 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39373-0010 | Yes       |
| 11       | 39373-0011 |           |
| 12       | 39373-0012 |           |

# 12.00mm (.472") Pitch Beau™ EuroMax™ Pluggable PCB Terminal Blocks High-Power

## 39421 Horizontal Plug



### Features and Benefits

- EuroMax is Molex's highest power pluggable Eurostyle terminal block
- Unique high-power pluggable design only available from Molex
- Pluggable design allows for easy servicing and replacement in the field
- Rising cage clamp termination provides gas-tight connection without strand damage or intermittence

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches  
Mates With: 39425 PCB headers

### Electrical

Voltage: 600V  
Current: 85.0A  
Insulation Resistance: 5,000 Megohms min.

### Mechanical

Recommended Tightening Torque: 2.70Nm (24 in.-lbs)

### Physical

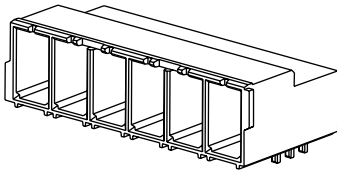
Housing: PBT, black  
Terminal: Copper Alloy  
Cage Clamp: Brass  
Screw: Stainless Steel, M5  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Tin  
Wire Range: 3 to 14 AWG  
Operating Temperature: -40 to +130°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39421-0002 | Yes       |
| 3        | 39421-0003 |           |
| 4        | 39421-0004 |           |
| 5        | 39421-0005 |           |
| 6        | 39421-0006 |           |
| 7        | 39421-0007 |           |
| 8        | 39421-0008 |           |
| 9        | 39421-0009 |           |
| 10       | 39421-0010 |           |

# 12.00mm (.472") Pitch Beau™ EuroMax™ Pluggable PCB Terminal Blocks High-Power

## 39425

### Horizontal PCB Header



#### Features and Benefits

- EuroMax is Molex's highest power pluggable Eurostyle terminal block
- Unique high-power pluggable design only available from Molex
- Unique high-power pluggable design only available from Molex
- Pluggable design allows for easy servicing and replacement in the field
- Header blade has 3 PC board tails which provide a robust connection to the PCB

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Mates With: 39421  
Designed In: Inches

#### Electrical

Voltage: 600V  
Current: 85.0A  
Insulation Resistance: 5,000 Megohms min.

#### Physical

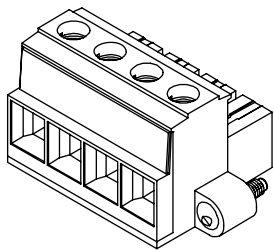
Housing: PBT, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +130°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39425-0002 | Yes       |
| 3        | 39425-0003 |           |
| 4        | 39425-0004 |           |
| 5        | 39425-0005 |           |
| 6        | 39425-0006 |           |
| 7        | 39425-0007 |           |
| 8        | 39425-0008 |           |
| 9        | 39425-0009 |           |
| 10       | 39425-0010 |           |

# 12.00mm (.472") Pitch Beau™ EuroMax™ Pluggable PCB Terminal Blocks High-Power

## 39422

### Horizontal Plug With Retention Screws



#### Features and Benefits

- EuroMax is Molex's highest power pluggable Eurostyle terminal block
- Unique high-power pluggable design only available from Molex
- Pluggable design allows for easy servicing and replacement in the field
- Rising cage clamp termination provides gas-tight connection without strand damage or intermittence

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches  
Mates With: 39426

#### Electrical

Voltage: 600V  
Current: 85.0A  
Insulation Resistance: 5,000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 2.70Nm (24 in.-lb)

#### Physical

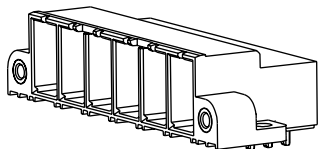
Housing: PBT, black  
Terminal: Copper Alloy  
Cage Clamp: Brass  
Screw: Stainless Steel, M5  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Tin  
Wire Range: 3 to 14 AWG  
Operating Temperature: -40 to +130°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39422-0002 | Yes       |
| 3        | 39422-0003 |           |
| 4        | 39422-0004 |           |
| 5        | 39422-0005 |           |
| 6        | 39422-0006 |           |
| 7        | 39422-0007 |           |
| 8        | 39422-0008 |           |

# 12.00mm (.472") Pitch Beau™ EuroMax™ Pluggable PCB Terminal Blocks High-Power

## 39426

## Horizontal PCB Header With Threaded Retention Inserts



| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39426-0002 | Yes       |
| 3        | 39426-0003 |           |
| 4        | 39426-0004 |           |
| 5        | 39426-0005 |           |
| 6        | 39426-0006 |           |
| 7        | 39426-0007 |           |
| 8        | 39426-0008 |           |

### Features and Benefits

- EuroMax is Molex's highest power pluggable Eurostyle terminal block
- Unique high-power pluggable design only available from Molex
- Pluggable design allows for easy servicing and replacement in the field
- Header blade has three PC board tails which provide a robust connection to the PCB

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches  
Mates With: 39422

### Electrical

Voltage: 600V  
Current: 85.0A  
Insulation Resistance: 5,000 Megohms min.

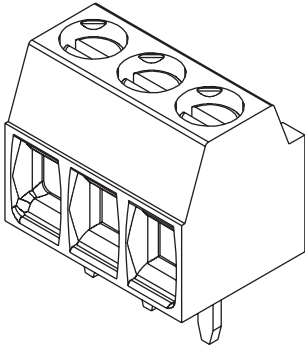
### Physical

Housing: PBT, black  
Terminal: Brass  
Plating: Terminal Area—Tin  
Operating Temperature: -40 to +130°C

## 3.50mm (.138") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks

### 39357

#### Vertical, Low Profile



#### Features and Benefits

- Small footprint conserves PCB real estate and provides higher density
- Rising cage clamp termination provides gas-tight connection without strand damage or intermittence
- Molded to length design prevents awkward and time consuming dovetailing to configure larger circuits

#### Reference Information

Packaging: Box  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 12.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.31Nm (2.7 in.-lb)

#### Physical

Housing: Polyamide 6/6  
Terminal: Copper Alloy  
Cage Clamp: Copper Alloy  
Screw: Copper Alloy, M2  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Nickel  
Wire Range: 16 to 18 AWG  
Operating Temperature: -40 to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39357-0002 | Yes       |
| 3        | 39357-0003 |           |
| 4        | 39357-0004 |           |
| 5        | 39357-0005 |           |
| 6        | 39357-0006 |           |
| 7        | 39357-0007 |           |
| 8        | 39357-0008 |           |
| 9        | 39357-0009 |           |

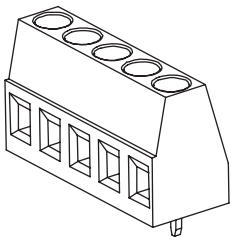
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39357-0010 | Yes       |
| 11       | 39357-0011 |           |
| 12       | 39357-0012 |           |
| 13       | 39357-0013 |           |
| 14       | 39357-0014 |           |
| 15       | 39357-0015 |           |
| 16       | 39357-0016 |           |
| 17       | 39357-0017 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39357-0018 | Yes       |
| 19       | 39357-0019 |           |
| 20       | 39357-0020 |           |
| 21       | 39357-0021 |           |
| 22       | 39357-0022 |           |
| 23       | 39357-0023 |           |
| 24       | 39357-0024 |           |
| 25       | 39357-0025 |           |

## 5.00mm (.197") Pitch ESE Fixed Mount PCB Terminal Blocks

### 39543

#### Vertical with Rising Cage Clamp



#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Captive screws mean that screws will not back out of housing

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 15.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.45Nm (4 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Cage Clamp: Brass  
Screw: Steel, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39543-3002 | Yes       |
| 3        | 39543-3003 |           |
| 4        | 39543-3004 |           |
| 5        | 39543-3005 |           |
| 6        | 39543-3006 |           |
| 7        | 39543-3007 |           |
| 8        | 39543-3008 |           |
| 9        | 39543-3009 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39543-3010 | Yes       |
| 11       | 39543-3011 |           |
| 12       | 39543-3012 |           |
| 13       | 39543-3013 |           |
| 14       | 39543-3014 |           |
| 15       | 39543-3015 |           |
| 16       | 39543-3016 |           |
| 17       | 39543-3017 |           |

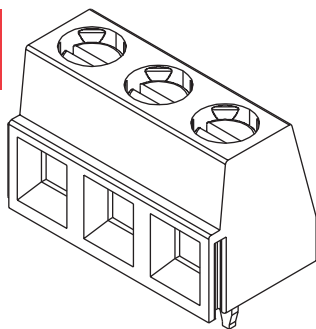
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39543-3018 | Yes       |
| 19       | 39543-3019 |           |
| 20       | 39543-3020 |           |
| 21       | 39543-3021 |           |
| 22       | 39543-3022 |           |
| 23       | 39543-3023 |           |
| 24       | 39543-3024 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

# 5.00mm (.197") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Modular

## 39890

### Vertical, Low Profile



#### Features and Benefits

- Low profile design conserves space
- High reliability rising clamp ensures quality termination without strand damage
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory

#### Reference Information

Packaging: Box  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 13.5A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.68Nm (6.0 in-lb.)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40°C to +105°C

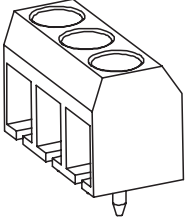
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39890-0302 | Yes       |
| 3        | 39890-0303 |           |
| 4        | 39890-0304 |           |
| 5        | 39890-0305 |           |
| 6        | 39890-0306 |           |
| 7        | 39890-0307 |           |
| 8        | 39890-0308 |           |
| 9        | 39890-0309 |           |
| 10       | 39890-0310 |           |
| 11       | 39890-0311 |           |
| 12       | 39890-0312 |           |
| 13       | 39890-0313 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 14       | 39890-0314 | Yes       |
| 15       | 39890-0315 |           |
| 16       | 39890-0316 |           |
| 17       | 39890-0317 |           |
| 18       | 39890-0318 |           |
| 19       | 39890-0319 |           |
| 20       | 39890-0320 |           |
| 21       | 39890-0321 |           |
| 22       | 39890-0322 |           |
| 23       | 39890-0323 |           |
| 24       | 39890-0324 |           |
| 25       | 39890-0325 |           |

## 5.00mm (.197") Pitch ESE Fixed Mount PCB Terminal Blocks

### 39543

#### Vertical with Pressure Clamp



#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Captive screws mean that screws will not back out of housing

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 15.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.23Nm (2 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Screw: Steel, M3  
Pressure Clamp: Brass  
Plating: Terminal Area—Tin  
Pressure Clamp—Nickel  
Screw—Zinc  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39543-0002 | Yes       |
| 3        | 39543-0003 |           |
| 4        | 39543-0004 |           |
| 5        | 39543-0005 |           |
| 6        | 39543-0006 |           |
| 7        | 39543-0007 |           |
| 8        | 39543-0008 |           |
| 9        | 39543-0009 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39543-0010 | Yes       |
| 11       | 39543-0011 |           |
| 12       | 39543-0012 |           |
| 13       | 39543-0013 |           |
| 14       | 39543-0014 |           |
| 15       | 39543-0015 |           |
| 16       | 39543-0016 |           |
| 17       | 39543-0017 |           |

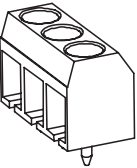
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39543-0018 | Yes       |
| 19       | 39543-0019 |           |
| 20       | 39543-0020 |           |
| 21       | 39543-0021 |           |
| 22       | 39543-0022 |           |
| 23       | 39543-0023 |           |
| 24       | 39543-0024 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

## 5.00mm (.197") Pitch ESE Fixed Mount PCB Terminal Blocks

### 39543

#### Low Profile, Vertical with Pressure Clamp



#### Features and Benefits

- Low profile design conserves space
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Captive screws mean that screws will not back out of housing

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 15.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.23Nm (2 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Pressure Clamp: Brass  
Screw: Steel, M2.5  
Plating: Terminal Area—Tin  
Pressure Clamp—Nickel  
Screw—Zinc  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39543-0602 | Yes       |
| 3        | 39543-0603 |           |
| 4        | 39543-0604 |           |
| 5        | 39543-0605 |           |
| 6        | 39543-0606 |           |
| 7        | 39543-0607 |           |
| 8        | 39543-0608 |           |
| 9        | 39543-0609 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39543-0610 | Yes       |
| 11       | 39543-0611 |           |
| 12       | 39543-0612 |           |
| 13       | 39543-0613 |           |
| 14       | 39543-0614 |           |
| 15       | 39543-0615 |           |
| 16       | 39543-0616 |           |
| 17       | 39543-0617 |           |

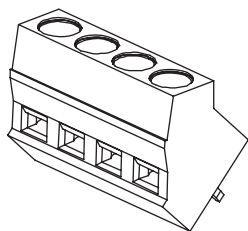
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39543-0618 | Yes       |
| 19       | 39543-0619 |           |
| 20       | 39543-0620 |           |
| 21       | 39543-0621 |           |
| 22       | 39543-0622 |           |
| 23       | 39543-0623 |           |
| 24       | 39543-0624 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

## 5.00mm (.197") Pitch ESE Fixed Mount PCB Terminal Blocks

### 39543

#### 45° Angle with Rising Cage Clamp



#### Features and Benefits

- Angled wire entry makes wiring more convenient on a crowded board
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Captive screws mean that screws will not back out of housing

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 15.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.23Nm (2 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Cage Clamp: Brass  
Screw: Steel, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39543-4302 | Yes       |
| 3        | 39543-4303 |           |
| 4        | 39543-4304 |           |
| 5        | 39543-4305 |           |
| 6        | 39543-4306 |           |
| 7        | 39543-4307 |           |
| 8        | 39543-4308 |           |
| 9        | 39543-4309 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39543-4310 | Yes       |
| 11       | 39543-4311 |           |
| 12       | 39543-4312 |           |
| 13       | 39543-4313 |           |
| 14       | 39543-4314 |           |
| 15       | 39543-4315 |           |
| 16       | 39543-4316 |           |
| 17       | 39543-4317 |           |

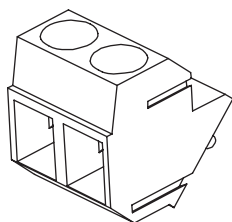
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39543-4318 | Yes       |
| 19       | 39543-4319 |           |
| 20       | 39543-4320 |           |
| 21       | 39543-4321 |           |
| 22       | 39543-4322 |           |
| 23       | 39543-4323 |           |
| 24       | 39543-4324 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

## 5.00mm (.197") Pitch ESE Fixed Mount PCB Terminal Blocks

### 39543

#### 45° Angle, Modular with Pressure Clamp



#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Captive screws mean that screws will not back out of housing

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 15.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.23Nm (2 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Pressure Clamp: Brass  
Screw: Steel, M2.5  
Plating: Terminal Area—Tin  
Pressure Clamp—Nickel  
Screw—Zinc  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39543-0202 | Yes       |
| 3        | 39543-0203 |           |
| 4        | 39543-0204 |           |
| 5        | 39543-0205 |           |
| 6        | 39543-0206 |           |
| 7        | 39543-0207 |           |
| 8        | 39543-0208 |           |
| 9        | 39543-0209 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39543-0210 | Yes       |
| 11       | 39543-0211 |           |
| 12       | 39543-0212 |           |
| 13       | 39543-0213 |           |
| 14       | 39543-0214 |           |
| 15       | 39543-0215 |           |
| 16       | 39543-0216 |           |
| 17       | 39543-0217 |           |

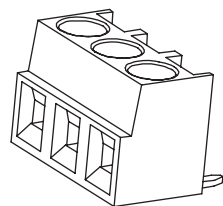
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39543-0218 | Yes       |
| 19       | 39543-0219 |           |
| 20       | 39543-0220 |           |
| 21       | 39543-0221 |           |
| 22       | 39543-0222 |           |
| 23       | 39543-0223 |           |
| 24       | 39543-0224 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

# 5.00mm (.197") Pitch ESE Fixed Mount PCB Terminal Blocks

## 39543

### Horizontal, Modular



#### Features and Benefits

- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory
- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Captive screws mean that screws will not back out of housing

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 15.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.28Nm (2.5 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Cage Clamp: Brass  
Screw: Steel, M2.5  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40 to +115°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39543-3102 | Yes       |
| 3        | 39543-3103 |           |
| 4        | 39543-3104 |           |
| 5        | 39543-3105 |           |
| 6        | 39543-3106 |           |
| 7        | 39543-3107 |           |
| 8        | 39543-3108 |           |
| 9        | 39543-3109 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39543-3110 | Yes       |
| 11       | 39543-3111 |           |
| 12       | 39543-3112 |           |
| 13       | 39543-3113 |           |
| 14       | 39543-3114 |           |
| 15       | 39543-3115 |           |
| 16       | 39543-3116 |           |
| 17       | 39543-3117 |           |

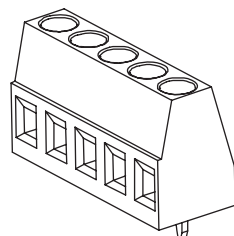
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39543-3118 | Yes       |
| 19       | 39543-3119 |           |
| 20       | 39543-3120 |           |
| 21       | 39543-3121 |           |
| 22       | 39543-3122 |           |
| 23       | 39543-3123 |           |
| 24       | 39543-3124 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

# 5.08mm (.200") Pitch ESE Fixed Mount PCB Terminal Blocks

## 39544

### Vertical with Rising Cage Clamp



#### Features and Benefits

- Two optional styles of imprinting make identifying, testing and wiring easier in the field
- Captive screws mean that screws will not back out of housing

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 15.0A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.45Nm (4 in.-lb)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Brass  
Cage Clamp: Brass  
Screw: Steel, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Zinc  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40 to +115°C

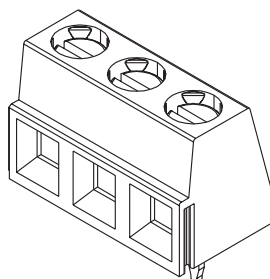
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39544-3002 | Yes       |
| 3        | 39544-3003 |           |
| 4        | 39544-3004 |           |
| 5        | 39544-3005 |           |
| 6        | 39544-3006 |           |
| 7        | 39544-3007 |           |
| 8        | 39544-3008 |           |
| 9        | 39544-3009 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39544-3010 | Yes       |
| 11       | 39544-3011 |           |
| 12       | 39544-3012 |           |
| 13       | 39544-3013 |           |
| 14       | 39544-3014 |           |
| 15       | 39544-3015 |           |
| 16       | 39544-3016 |           |
| 17       | 39544-3017 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39544-3018 | Yes       |
| 19       | 39544-3019 |           |
| 20       | 39544-3020 |           |
| 21       | 39544-3021 |           |
| 22       | 39544-3022 |           |
| 23       | 39544-3023 |           |
| 24       | 39544-3024 |           |

Note: Standard 10A (1, 2, 3...) and reverse 11A (3, 2, 1...) imprinting available.  
Please refer to sales drawing for additional order numbers (available on the web).

## 5.08mm (.200") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Modular

**39880**
**Vertical, Low Profile**


### Features and Benefits

- Low profile design conserves space
- High reliability rising clamp ensures quality termination without strand damage
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory

### Reference Information

Packaging: Box  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

### Electrical

Voltage: 300V  
Current: 13.5A  
Insulation Resistance: 500 Megohms min.

### Mechanical

Recommended Tightening Torque: 0.68Nm (6.0 in.-lb.)

### Physical

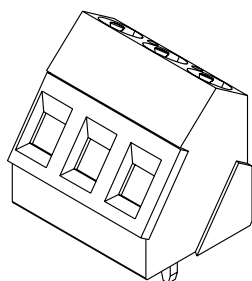
Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40°C to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39880-0302 | Yes       |
| 3        | 39880-0303 |           |
| 4        | 39880-0304 |           |
| 5        | 39880-0305 |           |
| 6        | 39880-0306 |           |
| 7        | 39880-0307 |           |
| 8        | 39880-0308 |           |
| 9        | 39880-0309 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39880-0310 |           |
| 11       | 39880-0311 |           |
| 12       | 39880-0312 |           |
| 13       | 39880-0313 |           |
| 14       | 39880-0314 | Yes       |
| 15       | 39880-0315 |           |
| 16       | 39880-0316 |           |
| 17       | 39880-0317 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39880-0318 |           |
| 19       | 39880-0319 |           |
| 20       | 39880-0320 |           |
| 21       | 39880-0321 |           |
| 22       | 39880-0322 |           |
| 23       | 39880-0323 |           |
| 24       | 39880-0324 |           |
| 25       | 39880-0325 |           |

## 5.08mm (.200") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Modular

**39880**
**35° Wire Entry**


### Features and Benefits

- High reliability rising clamp ensures quality termination without strand damage
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory
- Angled wire entry makes wiring more convenient on a crowded board

### Reference Information

Packaging: Box  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

### Electrical

Voltage: 300V  
Maximum Current: 17.5A  
Insulation Resistance: 500 Megohms min.

### Mechanical

Recommended Tightening Torque: 0.79Nm (7.0 in.-lb.)

### Physical

Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40°C to +105°C

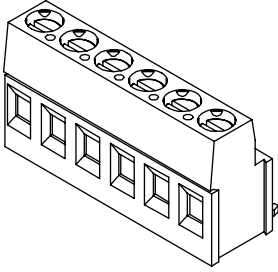
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39880-0402 | Yes       |
| 3        | 39880-0403 |           |
| 4        | 39880-0404 |           |
| 5        | 39880-0405 |           |
| 6        | 39880-0406 |           |
| 7        | 39880-0407 |           |
| 8        | 39880-0408 |           |
| 9        | 39880-0409 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39880-0410 |           |
| 11       | 39880-0411 |           |
| 12       | 39880-0412 |           |
| 13       | 39880-0413 |           |
| 14       | 39880-0414 | Yes       |
| 15       | 39880-0415 |           |
| 16       | 39880-0416 |           |
| 17       | 39880-0417 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 18       | 39880-0418 |           |
| 19       | 39880-0419 |           |
| 20       | 39880-0420 |           |
| 21       | 39880-0421 |           |
| 22       | 39880-0422 |           |
| 23       | 39880-0423 |           |
| 24       | 39880-0424 |           |
| 25       | 39880-0425 |           |

## 5.08mm (.200") Pitch Eurostyle Fixed Mount Terminal Block

**39880**  
Horizontal



### Features and Benefits

- One of our most popular pitch sizes
- Rising cage clamp termination provides gas-tight connection without strand damage or intermittence

### Reference Information

Packaging: Bag  
UL File No.: E48521  
Designed In: Millimeters

### Electrical

Voltage: 300V  
Current: 17.5A  
Insulation Resistance: 1000 Megohms min.

### Mechanical

Recommended Tightening Torque: 0.50Nm (4.4 in. lb)

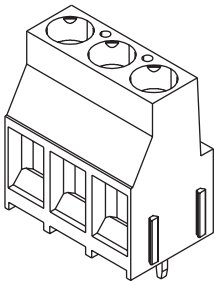
### Physical

Housing: Polyamide 6/6  
Terminal: Copper Alloy  
Cage Clamp: Copper Alloy  
Screw: Copper Alloy, M3  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Nickel  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40 to +105°C

| Circuits | Order No.  | Lead-free | Circuits | Order No.  | Lead-free |
|----------|------------|-----------|----------|------------|-----------|
| 2        | 39880-1202 | Yes       | 14       | 39880-1214 | Yes       |
| 3        | 39880-1203 |           | 15       | 39880-1215 |           |
| 4        | 39880-1204 |           | 16       | 39880-1216 |           |
| 5        | 39880-1205 |           | 17       | 39880-1217 |           |
| 6        | 39880-1206 |           | 18       | 39880-1218 |           |
| 7        | 39880-1207 |           | 19       | 39880-1219 |           |
| 8        | 39880-1208 |           | 20       | 39880-1220 |           |
| 9        | 39880-1209 |           | 21       | 39880-1221 |           |
| 10       | 39880-1210 |           | 22       | 39880-1222 |           |
| 11       | 39880-1211 |           | 23       | 39880-1223 |           |
| 12       | 39880-1212 |           | 24       | 39880-1224 |           |
| 13       | 39880-1213 |           | 25       | 39880-1225 |           |

## 6.35mm (.250") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks High Power

**39380**  
Vertical



### Features and Benefits

- Dovetail feature allows larger circuit sizes to be easily assembled
- Small footprint conserves PCB real estate and provides higher density
- Rising cage clamp termination provides gas-tight connection without strand damage or intermittence

### Reference Information

Packaging: Box  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

### Electrical

Voltage: 300V  
Current: 30.0A  
Insulation Resistance: 500 Megohms min.

### Mechanical

Recommended Tightening Torque: 0.79Nm (7 in.-lb)

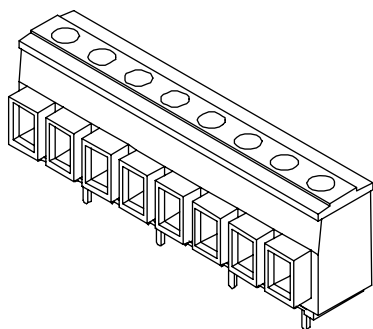
### Physical

Housing: Polyamide 6/6  
Terminal: Copper Alloy  
Cage Clamp: Copper Alloy  
Screw: Copper Alloy, M3.5  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Nickel  
Wire Range: 10 to 30 AWG  
Operating Temperature: -40 to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39380-0102 | Yes       |
| 3        | 39380-0103 |           |

# 8.00 mm (.315") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks High Power

**39950**  
**Vertical**



## Features and Benefits

- 39950 and 39960 are the smallest pitch 600V rated Eurostyle terminal blocks available from Molex
- Extended wire entry funnel surrounds the wire insulator to eliminate exposed wire strands and reduce possible shorting
- Rising cage clamp holds wires for secure, reliable contact

## Reference Information

UL File No.: E48521  
Flammability: UL 94V-0

## Electrical

Voltage: 600V  
Current: 20.0A  
Insulation Resistance: 5,000 Gigohms min.

## Mechanical

Recommended Tightening Torque: 0.56Nm (5.0 in-lb.)

## Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Steel, M3  
Cage Clamp: Brass  
Plating: Terminal—Tin  
Screw—Zinc with clear chromate  
Cage Clamp—Nickel  
Wire Range: 12 to 22 AWG  
Operating Temperature: -40°C to +130°C

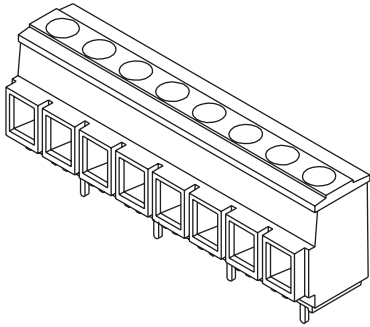
| Circuit | Order No.  | Lead-free |
|---------|------------|-----------|
| 3       | 39950-0103 | Yes       |
| 4       | 39950-0104 |           |
| 5       | 39950-0105 |           |
| 6       | 39950-0106 |           |
| 7       | 39950-0107 |           |

| Circuit | Order No.  | Lead-free |
|---------|------------|-----------|
| 8       | 39950-0108 | Yes       |
| 9       | 39950-0109 |           |
| 10      | 39950-0110 |           |
| 11      | 39950-0111 |           |
| 12      | 39950-0112 |           |

| Circuit | Order No.  | Lead-free |
|---------|------------|-----------|
| 13      | 39950-0113 | Yes       |
| 14      | 39950-0114 |           |
| 15      | 39950-0115 |           |
| 16      | 39950-0116 |           |

# 8.00 mm (.315") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks High Power

**39960**  
**Vertical**



## Features and Benefits

- 39960 and 39950 are the smallest pitch 600V rated Eurostyle terminal blocks available from Molex
- Extended wire entry funnel surrounds the wire insulator to eliminate exposed wire strands and reduce possible shorting
- Rising cage clamp holds wires for secure, reliable contact

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0

## Electrical

Voltage: 600V  
Current: 30.0A  
Insulation Resistance: 5,000 Gigohms min.

## Mechanical

Recommended Tightening Torque: 0.79Nm (7.0 in.-lb.)

## Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Bronze, M3.5  
Cage Clamp: Brass  
Plating: Terminal—Tin  
Screw—Tin  
Cage Clamp—Nickel  
Wire Range: 10 to 22 AWG  
Operating Temperature: -40°C to +130°C

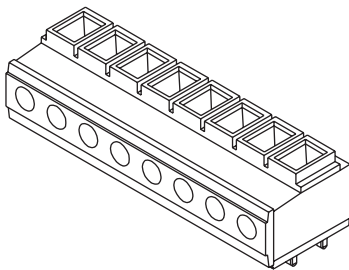
| Circuit | Order No.  | Lead-free |
|---------|------------|-----------|
| 3       | 39960-0103 | Yes       |
| 4       | 39960-0104 |           |
| 5       | 39960-0105 |           |
| 6       | 39960-0106 |           |

| Circuit | Order No.  | Lead-free |
|---------|------------|-----------|
| 7       | 39960-0107 | Yes       |
| 8       | 39960-0108 |           |
| 9       | 39960-0109 |           |
| 10      | 39960-0110 |           |

| Circuit | Order No.  | Lead-free |
|---------|------------|-----------|
| 11      | 39960-0111 | Yes       |
| 12      | 39960-0112 |           |

# 8.00mm (.315") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks High Power

**39960**  
**Horizontal**



## Features and Benefits

- Extended wire entry funnel surrounds the wire insulator, eliminating exposed wire strands and possible shorting
- Rising cage clamp termination provides gas-tight connection without strand damage or intermittence

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

## Electrical

Voltage: 300V  
Current: 30.0A  
Insulation Resistance: 5,000 Gigohms min.

## Mechanical

Recommended Tightening Torque: 0.79Nm (7 in.-lb.)

## Physical

Housing: Polysulfone  
Contact: Brass  
Cage Clamp: Brass  
Screw: Bronze, M3.5  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Tin  
Wire Range: 10 to 22 AWG  
Operating Temperature: -40 to +130°C

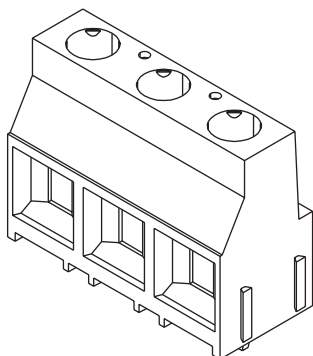
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39960-0202 | Yes       |
| 3        | 39960-0203 |           |
| 4        | 39960-0204 |           |
| 5        | 39960-0205 |           |
| 6        | 39960-0206 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 7        | 39960-0207 | Yes       |
| 8        | 39960-0208 |           |
| 9        | 39960-0209 |           |
| 10       | 39960-0210 |           |
| 11       | 39960-0211 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 12       | 39960-0212 | Yes       |
| 13       | 39960-0213 |           |
| 14       | 39960-0214 |           |
| 15       | 39960-0215 |           |
| 16       | 39960-0216 |           |

## 9.53mm (.375") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks High Power

**39390**  
Vertical



| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39390-0102 | Yes       |
| 3        | 39390-0103 |           |

### Features and Benefits

- Dovetail feature allows larger circuit sizes to be easily assembled
- Rising cage clamp termination provides gas-tight connection without strand damage or intermittence

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 600V  
Current: 30.0A  
Insulation Resistance: 500 Megohms min.

### Mechanical

Recommended Tightening Torque: 0.79Nm (7 in.-lbs)

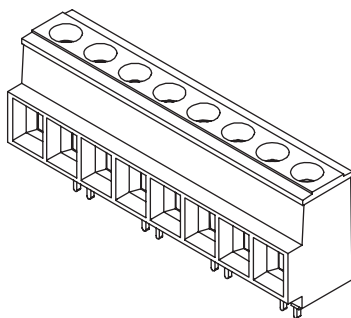
### Physical

Housing: Polyamide 6/6  
Terminal: Copper Alloy  
Cage Clamp: Copper Alloy  
Screw: Copper Alloy, M3.5  
Plating: Terminal Area—Tin  
Cage Clamp—Nickel  
Screw—Nickel  
Wire Range: 10 to 30 AWG  
Operating Temperature: -40 to +105°C

[www.molex.com/product/euro\\_tb.html](http://www.molex.com/product/euro_tb.html)

## 10.16mm (.400") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks High Power

**39910**  
Vertical



### Features and Benefits

- Extended wire entry funnel surrounds the wire insulator to eliminate exposed wire strands and reduce possible shorting
- Highest power density of any Molex Eurostyle terminal block
- Two pins per circuit PCB terminals distribute power reducing hot spots
- Rising cage clamp holds wires for secure, reliable contact

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0

### Electrical

Voltage: 600V  
Current: 60.0A—39910-01XX  
40.0A—39910-03XX  
Insulation Resistance: 50,000 Gigohms min.

### Mechanical

Recommended Tightening Torque: 1.36Nm (12.0 in.-lb.)

### Physical

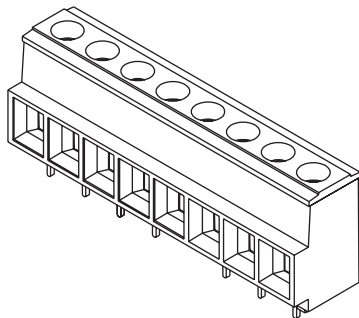
Housing: PBT, black  
Terminal: Copper  
Screw: Bronze, M4  
Cage Clamp: Brass  
Plating: Terminal—Tin  
Screw—Tin  
Cage Clamp—Nickel  
Wire Range: 6 to 18 AWG  
Operating Temperature: -40°C to +130°C

| Circuits | Order No.  |            | Lead-free |
|----------|------------|------------|-----------|
|          | 60.0 Amp   | 40.0 Amp   |           |
| 2        | 39910-0102 | 39910-0302 | Yes       |
| 3        | 39910-0103 | 39910-0303 |           |
| 4        | 39910-0104 | 39910-0304 |           |
| 5        | 39910-0105 | 39910-0305 |           |
| 6        | 39910-0106 | 39910-0306 |           |
| 7        | 39910-0107 | 39910-0307 |           |
| 8        | 39910-0108 | 39910-0308 |           |

| Circuits | Order No.  |            | Lead-free |
|----------|------------|------------|-----------|
|          | 60.0 Amp   | 40.0 Amp   |           |
| 9        | 39910-0109 | 39910-0309 | Yes       |
| 10       | 39910-0110 | 39910-0310 |           |
| 11       | 39910-0111 | 39910-0311 |           |
| 12       | 39910-0112 | 39910-0312 |           |
| 13       | 39910-0113 | 39910-0313 |           |
| 14       | 39910-0114 | 39910-0314 |           |

# 10.16 mm (.400") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks High Power

**39970**  
**Vertical**



## Features and Benefits

- Common pin layout for easy design in or drop-in replacement
- Extended wire entry funnel surrounds the wire insulator to eliminate exposed wire strands and reduce possible shorting
- Rising cage clamp holds wires for secure, reliable contact

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0

## Electrical

Voltage: 300V  
Current: 60.0A—39970-01XX  
40.0A—39970-03XX  
Insulation Resistance: 5,000 Gigohms min.

## Mechanical

Recommended Tightening Torque: 1.36Nm (12.0 in-lb.)

## Physical

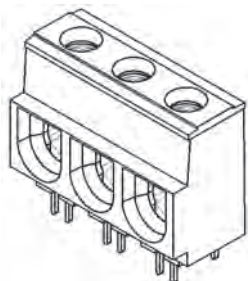
Housing: PBT, black  
Terminal: Copper  
Screw: Bronze, M4  
Cage Clamp: Brass  
Plating: Terminal—Tin  
Screw—Tin  
Cage Clamp—Nickel  
Wire Range: 6 to 18 AWG  
Operating Temperature: -40°C to +130°C

| Circuits | Order No.  |            | Lead-free |
|----------|------------|------------|-----------|
|          | 60.0 Amp   | 40.0 Amp   |           |
| 2        | 39970-0102 | 39970-0302 | Yes       |
| 3        | 39970-0103 | 39970-0303 |           |
| 4        | 39970-0104 | 39970-0304 |           |
| 5        | 39970-0105 | 39970-0305 |           |
| 6        | 39970-0106 | 39970-0306 |           |
| 7        | 39970-0107 | 39970-0307 |           |
| 8        | 39970-0108 | 39970-0308 |           |

| Circuits | Order No.  |            | Lead-free |
|----------|------------|------------|-----------|
|          | 60.0 Amp   | 40.0 Amp   |           |
| 9        | 39970-0109 | 39970-0309 | Yes       |
| 10       | 39970-0110 | 39970-0310 |           |
| 11       | 39970-0111 | 39970-0311 |           |
| 12       | 39970-0112 | 39970-0312 |           |
| 13       | 39970-0113 | 39970-0313 |           |
| 14       | 39970-0114 | 39970-0314 |           |

# 15.00mm (.591") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks High Power

**39920**  
**Vertical**



## Features and Benefits

- 39920 has the highest current and voltage rating of any Molex Eurostyle terminal block
- Four pins per circuit PCB terminals distribute power reducing hot spots
- Extended wire entry funnel surrounds the wire insulator to eliminate exposed wire strands and reduce possible shorting
- Rising cage clamp holds wires for secure, reliable contact

## Reference Information

Packaging: Tray  
UL File: E48521  
Flammability: UL 94V-0

## Electrical

Voltage: 600V  
Maximum Current: 115.0A  
Insulation Resistance: 50,000 Gigohms min.

## Mechanical

Recommended Tightening Torque: 3.95Nm (35.0 in-lb.)

## Physical

Housing: PBT, black  
Terminal: Copper  
Screw: Bronze, 1/4-28  
Cage Clamp: Brass  
Plating: Terminal—Tin  
Screw—Tin  
Cage Clamp—Nickel  
Wire Range: 1 to 8 AWG  
Operating Temperature: -40°C to +130°C

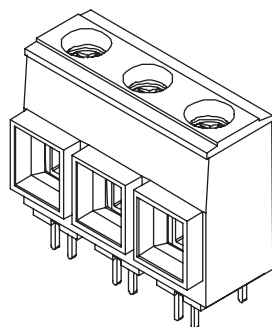
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39920-0302 |           |
| 3        | 39920-0303 |           |
| 4        | 39920-0304 |           |
| 5        | 39920-0305 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 6        | 39920-0306 |           |
| 7        | 39920-0307 |           |
| 8        | 39920-0308 |           |
| 9        | 39920-0309 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39920-0310 |           |
| 11       | 39920-0311 |           |
| 12       | 39920-0312 |           |

# 15.00mm (.591") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks High Power

**39920**  
**Vertical**



## Features and Benefits

- 39920 has the highest current and voltage rating of any Molex Eurostyle terminal block
- Four pins per circuit PCB terminals distribute power reducing hot spots
- Extended wire entry funnel surrounds the wire insulator to eliminate exposed wire strands and reduce possible shorting
- Rising cage clamp holds wires for secure, reliable contact

## Reference Information

Packaging: Tray  
UL File: E48521  
Flammability: UL 94V-0

## Electrical

Voltage: 600V  
Maximum Current: 100.0A  
Insulation Resistance: 50,000 Gigohms min.

## Mechanical

Recommended Tightening Torque: 2.71 Nm (24.0 in-lb.)

## Physical

Housing: PBT, black  
Terminal: Copper  
Screw: Stainless Steel, M5  
Cage Clamp: Brass  
Plating: Terminal—Tin  
Screw—Tin  
Cage Clamp—Nickel  
Wire Range: 3 to 14 AWG  
Operating Temperature: -40°C to +130°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39920-0502 | Yes       |
| 3        | 39920-0503 |           |
| 4        | 39920-0504 |           |
| 5        | 39920-0505 |           |

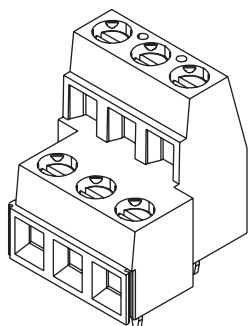
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 6        | 39920-0506 | Yes       |
| 7        | 39920-0507 |           |
| 8        | 39920-0508 |           |
| 9        | 39920-0509 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 10       | 39920-0510 | Yes       |
| 11       | 39920-0511 |           |
| 12       | 39920-0512 |           |

# 5.00mm (.197") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Dual Level, Modular

## 39890

### Vertical, Low Profile



#### Features and Benefits

- Rising cage clamp holds wires for secure, reliable contact
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory
- Offset circuits provide easy accessibility and good visibility for wiring

#### Reference Information

Packaging: Box  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 13.5A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.68Nm (6.0 in.-lb.)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40°C to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 39890-0504 | Yes       |
| 6        | 39890-0506 |           |
| 8        | 39890-0508 |           |
| 10       | 39890-0510 |           |
| 12       | 39890-0512 |           |
| 14       | 39890-0514 |           |
| 16       | 39890-0516 |           |
| 18       | 39890-0518 |           |

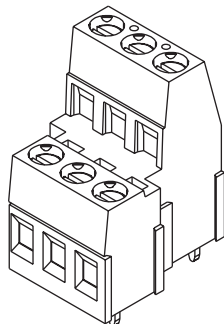
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 20       | 39890-0520 | Yes       |
| 22       | 39890-0522 |           |
| 24       | 39890-0524 |           |
| 26       | 39890-0526 |           |
| 28       | 39890-0528 |           |
| 30       | 39890-0530 |           |
| 32       | 39890-0532 |           |
| 34       | 39890-0534 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 36       | 39890-0536 | Yes       |
| 38       | 39890-0538 |           |
| 40       | 39890-0540 |           |
| 42       | 39890-0542 |           |
| 44       | 39890-0544 |           |
| 46       | 39890-0546 |           |
| 48       | 39890-0548 |           |

# 5.00mm (.197") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Dual Level, Modular

## 39890

### Vertical, Medium Profile



#### Features and Benefits

- Rising cage clamp holds wires for secure, reliable contact
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory
- Offset circuits provide easy accessibility and good visibility for wiring

#### Reference Information

Packaging: Box  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

#### Electrical

Voltage: 300V  
Current: 17.5A  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.79Nm (7.0 in.-lb.)

#### Physical

Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40°C to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 39890-0604 | Yes       |
| 6        | 39890-0606 |           |
| 8        | 39890-0608 |           |
| 10       | 39890-0610 |           |
| 12       | 39890-0612 |           |
| 14       | 39890-0614 |           |
| 16       | 39890-0616 |           |
| 18       | 39890-0618 |           |

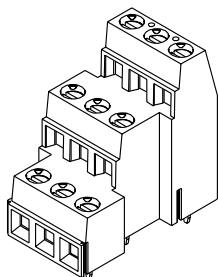
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 20       | 39890-0620 | Yes       |
| 22       | 39890-0622 |           |
| 24       | 39890-0624 |           |
| 26       | 39890-0626 |           |
| 28       | 39890-0628 |           |
| 30       | 39890-0630 |           |
| 32       | 39890-0632 |           |
| 34       | 39890-0634 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 36       | 39890-0636 | Yes       |
| 38       | 39890-0638 |           |
| 40       | 39890-0640 |           |
| 42       | 39890-0642 |           |
| 44       | 39890-0644 |           |
| 46       | 39890-0646 |           |
| 48       | 39890-0648 |           |

# 5.00mm (.197") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Tri-Level, Modular

39890

Vertical, Low Profile



## Features and Benefits

- Rising cage clamp holds wires for secure, reliable contact
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory
- Offset circuits provide easy accessibility and good visibility for wiring

## Reference Information

Packaging: Box  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

## Electrical

Voltage: 300V  
Current: 13.5A  
Insulation Resistance: 500 Megohms min.

## Mechanical

Recommended Tightening Torque: 0.68Nm (6.0 in.-lb.)

## Physical

Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40°C to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 6        | 39890-0806 | Yes       |
| 9        | 39890-0809 |           |
| 12       | 39890-0812 |           |
| 15       | 39890-0815 |           |
| 18       | 39890-0818 |           |
| 21       | 39890-0821 |           |
| 24       | 39890-0824 |           |
| 27       | 39890-0827 |           |

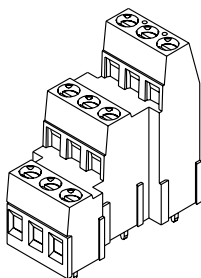
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 30       | 39890-0830 | Yes       |
| 33       | 39890-0833 |           |
| 36       | 39890-0836 |           |
| 39       | 39890-0839 |           |
| 42       | 39890-0842 |           |
| 45       | 39890-0845 |           |
| 48       | 39890-0848 |           |
| 51       | 39890-0851 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 54       | 39890-0854 | Yes       |
| 57       | 39890-0857 |           |
| 60       | 39890-0860 |           |
| 63       | 39890-0863 |           |
| 66       | 39890-0866 |           |
| 69       | 39890-0869 |           |
| 72       | 39890-0872 |           |

# 5.00mm (.197") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Tri-Level, Modular

39890

Vertical, Medium Profile



## Features and Benefits

- Rising cage clamp holds wires for secure, reliable contact
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory
- Offset circuits provide easy accessibility and good visibility for wiring

## Reference Information

Packaging: Box  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

## Electrical

Voltage: 300V  
Current: 17.5A  
Insulation Resistance: 500 Megohms min.

## Mechanical

Recommended Tightening Torque: 0.79Nm (7.0 in.-lb.)

## Physical

Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40°C to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 6        | 39890-0906 | Yes       |
| 9        | 39890-0909 |           |
| 12       | 39890-0912 |           |
| 15       | 39890-0915 |           |
| 18       | 39890-0918 |           |
| 21       | 39890-0921 |           |
| 24       | 39890-0924 |           |
| 27       | 39890-0927 |           |

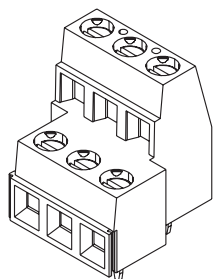
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 30       | 39890-0930 | Yes       |
| 33       | 39890-0933 |           |
| 36       | 39890-0936 |           |
| 39       | 39890-0939 |           |
| 42       | 39890-0942 |           |
| 45       | 39890-0945 |           |
| 48       | 39890-0948 |           |
| 51       | 39890-0951 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 54       | 39890-0954 | Yes       |
| 57       | 39890-0957 |           |
| 60       | 39890-0960 |           |
| 63       | 39890-0963 |           |
| 66       | 39890-0966 |           |
| 69       | 39890-0969 |           |
| 72       | 39890-0972 |           |

# 5.08mm (.200") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Dual Level, Modular

**39880**

**Vertical, Low Profile**



## Features and Benefits

- Rising cage clamp holds wires for secure, reliable contact
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory
- Dual level design allows for higher density

## Reference Information

Packaging: Box  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

## Electrical

Voltage: 300V  
Current: 13.5A  
Insulation Resistance: 500 Megohms min.

## Mechanical

Recommended Tightening Torque: 0.68Nm (6.0 in-lb.)

## Physical

Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40°C to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 39880-0504 | Yes       |
| 6        | 39880-0506 |           |
| 8        | 39880-0508 |           |
| 10       | 39880-0510 |           |
| 12       | 39880-0512 |           |
| 14       | 39880-0514 |           |
| 16       | 39880-0516 |           |
| 18       | 39880-0518 |           |

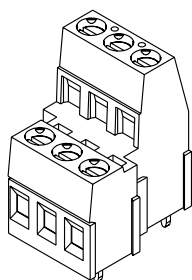
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 20       | 39880-0520 | Yes       |
| 22       | 39880-0522 |           |
| 24       | 39880-0524 |           |
| 26       | 39880-0526 |           |
| 28       | 39880-0528 |           |
| 30       | 39880-0530 |           |
| 32       | 39880-0532 |           |
| 34       | 39880-0534 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 36       | 39880-0536 | Yes       |
| 38       | 39880-0538 |           |
| 40       | 39880-0540 |           |
| 42       | 39880-0542 |           |
| 44       | 39880-0544 |           |
| 46       | 39880-0546 |           |
| 48       | 39880-0548 |           |

# 5.08mm (.200") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Dual Level, Modular

**39880**

**Vertical, Medium Profile**



## Features and Benefits

- Rising cage clamp holds wires for secure, reliable contact
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory
- Dual level design allows for higher density

## Reference Information

Packaging: Box  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

## Electrical

Voltage: 300V  
Current: 17.5A  
Insulation Resistance: 500 Megohms min.

## Mechanical

Recommended Tightening Torque: 0.79Nm (7.0 in-lb.)

## Physical

Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40°C to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 39880-0604 | Yes       |
| 6        | 39880-0606 |           |
| 8        | 39880-0608 |           |
| 10       | 39880-0610 |           |
| 12       | 39880-0612 |           |
| 14       | 39880-0614 |           |
| 16       | 39880-0616 |           |
| 18       | 39880-0618 |           |

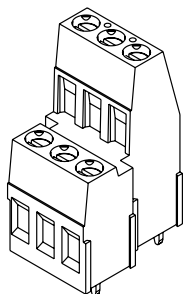
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 20       | 39880-0620 | Yes       |
| 22       | 39880-0622 |           |
| 24       | 39880-0624 |           |
| 26       | 39880-0626 |           |
| 28       | 39880-0628 |           |
| 30       | 39880-0630 |           |
| 32       | 39880-0632 |           |
| 34       | 39880-0634 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 36       | 39880-0636 | Yes       |
| 38       | 39880-0638 |           |
| 40       | 39880-0640 |           |
| 42       | 39880-0642 |           |
| 44       | 39880-0644 |           |
| 46       | 39880-0646 |           |
| 48       | 39880-0648 |           |

# 5.08mm (.200") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Dual Level, Modular

39880

Vertical, High Profile



## Features and Benefits

- Rising cage clamp holds wires for secure, reliable contact
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory
- Dual level design allows for higher density

## Reference Information

Packaging: Box  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

## Electrical

Voltage: 300V  
Current: 24.0A  
Insulation Resistance: 500 Megohms min.

## Mechanical

Recommended Tightening Torque: 0.79Nm (7.0 in.-lb.)

## Physical

Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40°C to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 39880-0704 | Yes       |
| 6        | 39880-0706 |           |
| 8        | 39880-0708 |           |
| 10       | 39880-0710 |           |
| 12       | 39880-0712 |           |
| 14       | 39880-0714 |           |
| 16       | 39880-0716 |           |
| 18       | 39880-0718 |           |

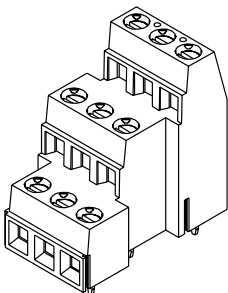
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 20       | 39880-0720 | Yes       |
| 22       | 39880-0722 |           |
| 24       | 39880-0724 |           |
| 26       | 39880-0726 |           |
| 28       | 39880-0728 |           |
| 30       | 39880-0730 |           |
| 32       | 39880-0732 |           |
| 34       | 39880-0734 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 36       | 39880-0736 | Yes       |
| 38       | 39880-0738 |           |
| 40       | 39880-0740 |           |
| 42       | 39880-0742 |           |
| 44       | 39880-0744 |           |
| 46       | 39880-0746 |           |
| 48       | 39880-0748 |           |

# 5.08mm (.200") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Tri-Level, Modular

39880

Vertical, Low Profile



## Features and Benefits

- Rising cage clamp holds wires for secure, reliable contact
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory
- Tri-level design allows for higher density

## Reference Information

Packaging: Box  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

## Electrical

Voltage: 300V  
Current: 13.5A  
Insulation Resistance: 500 Megohms min.

## Mechanical

Recommended Tightening Torque: 0.68Nm (6.0 in.-lb.)

## Physical

Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 16 to 30 AWG  
Operating Temperature: -40°C to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 6        | 39880-0806 | Yes       |
| 9        | 39880-0809 |           |
| 12       | 39880-0812 |           |
| 15       | 39880-0815 |           |
| 18       | 39880-0818 |           |
| 21       | 39880-0821 |           |
| 24       | 39880-0824 |           |
| 27       | 39880-0827 |           |

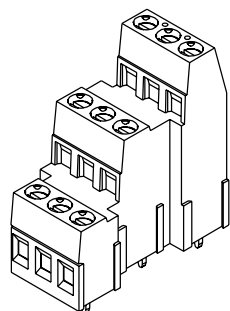
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 30       | 39880-0830 | Yes       |
| 33       | 39880-0833 |           |
| 36       | 39880-0836 |           |
| 39       | 39880-0839 |           |
| 42       | 39880-0842 |           |
| 45       | 39880-0845 |           |
| 48       | 39880-0848 |           |
| 51       | 39880-0851 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 54       | 39880-0854 | Yes       |
| 57       | 39880-0857 |           |
| 60       | 39880-0860 |           |
| 63       | 39880-0863 |           |
| 66       | 39880-0866 |           |
| 69       | 39880-0869 |           |
| 72       | 39880-0872 |           |

# 5.08mm (.200") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Tri-Level, Modular

**39880**

**Vertical, Medium Profile**



## Features and Benefits

- Rising cage clamp holds wires for secure, reliable contact
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory
- Tri-level design allows for higher density

## Reference Information

Packaging: B0x  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

## Electrical

Voltage: 300V  
Current: 17.5A  
Insulation Resistance: 500 Megohms min.

## Mechanical

Recommended Tightening Torque: 0.79Nm (7.0 in-lb.)

## Physical

Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40°C to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 6        | 39880-0906 | Yes       |
| 9        | 39880-0909 |           |
| 12       | 39880-0912 |           |
| 15       | 39880-0915 |           |
| 18       | 39880-0918 |           |
| 21       | 39880-0921 |           |
| 24       | 39880-0924 |           |
| 27       | 39880-0927 |           |

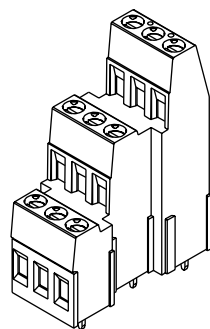
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 30       | 39880-0930 | Yes       |
| 33       | 39880-0933 |           |
| 36       | 39880-0936 |           |
| 39       | 39880-0939 |           |
| 42       | 39880-0942 |           |
| 45       | 39880-0945 |           |
| 48       | 39880-0948 |           |
| 51       | 39880-0951 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 54       | 39880-0954 | Yes       |
| 57       | 39880-0957 |           |
| 60       | 39880-0960 |           |
| 63       | 39880-0963 |           |
| 66       | 39880-0966 |           |
| 69       | 39880-0969 |           |
| 72       | 39880-0972 |           |

# 5.08mm (.200") Pitch Beau™ Eurostyle™ Fixed Mount PCB Terminal Blocks Tri-Level, Modular

**39880**

**Vertical, High Profile**



## Features and Benefits

- Rising cage clamp holds wires for secure, reliable contact
- Modular design allows multiple sections to be locked together to form larger assemblies to reduce inventory
- Tri-level design allows for higher density

## Reference Information

Packaging: Box  
UL File: E48521  
Flammability: UL 94V-0  
Designed In: Millimeters

## Electrical

Voltage: 300V  
Current: 24.0A  
Insulation Resistance: 500 Megohms min.

## Mechanical

Recommended Tightening Torque: 0.79Nm (7.0 in-lb.)

## Physical

Housing: Polyamide 6/6, black  
Terminal: Copper Alloy  
Screw: Copper Alloy, M3  
Cage Clamp: Copper Alloy  
Plating: Terminal—Tin  
Screw—Nickel  
Cage Clamp—Nickel  
Wire Range: 12 to 30 AWG  
Operating Temperature: -40°C to +105°C

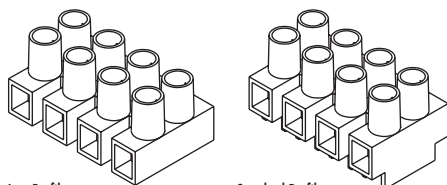
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 6        | 39880-1006 | Yes       |
| 9        | 39880-1009 |           |
| 12       | 39880-1012 |           |
| 15       | 39880-1015 |           |
| 18       | 39880-1018 |           |
| 21       | 39880-1021 |           |
| 24       | 39880-1024 |           |
| 27       | 39880-1027 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 30       | 39880-1030 | Yes       |
| 33       | 39880-1033 |           |
| 36       | 39880-1036 |           |
| 39       | 39880-1039 |           |
| 42       | 39880-1042 |           |
| 45       | 39880-1045 |           |
| 48       | 39880-1048 |           |
| 51       | 39880-1051 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 54       | 39880-1054 | Yes       |
| 57       | 39880-1057 |           |
| 60       | 39880-1060 |           |
| 63       | 39880-1063 |           |
| 66       | 39880-1066 |           |
| 69       | 39880-1069 |           |
| 72       | 39880-1072 |           |

## 8.00mm (.315") Pitch Two-Screw Terminal Strips

### 39100 Panel Mount



Low Profile

Standard Profile

#### Features and Benefits

- Modular design allows larger blocks to be easily cut to smaller circuit sizes
- Easy installation saves time and money
- Contacts and screws are recessed within the housing to help avoid short circuits
- Wire protectors prevent wire damage during connection
- Also known as "Eurostrips" or Europa Terminal blocks

#### Reference Information

Packaging: Bag  
UL File No.: E48521  
Flammability: UL 94V-2  
Designed In: Millimeters

#### Electrical

Voltage: Standard Profile—600V  
Low Profile—300V  
Current: 20.0A  
Insulation Resistance: 5000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.50Nm (4.4 in.-lb)

#### Physical

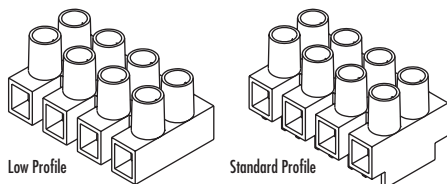
Housing: Polyamide 6/6, natural color  
Terminal: Brass  
Wire Protector: Brass  
Screw: Steel, M2  
Plating: Terminal Area—Nickel  
Wire Protector—Nickel  
Screw—Zinc  
Wire Range: 12 to 22 AWG  
Operating Temperature: -40 to +105°C

| Circuits | Order No.                            |                                    | Lead-free |
|----------|--------------------------------------|------------------------------------|-----------|
|          | Standard Profile<br>(with standoffs) | Low Profile<br>(without standoffs) |           |
| 2        | 39100-0802                           | 39100-0902                         | Yes       |
| 3        | 39100-0803                           | 39100-0903                         |           |
| 4        | 39100-0804                           | 39100-0904                         |           |
| 5        | 39100-0805                           | 39100-0905                         |           |
| 6        | 39100-0806                           | 39100-0906                         |           |
| 7        | 39100-0807                           | 39100-0907                         |           |

| Circuits | Order No.                            |                                    | Lead-free |
|----------|--------------------------------------|------------------------------------|-----------|
|          | Standard Profile<br>(with standoffs) | Low Profile<br>(without standoffs) |           |
| 8        | 39100-0808                           | 39100-0908                         | Yes       |
| 9        | 39100-0809                           | 39100-0909                         |           |
| 10       | 39100-0810                           | 39100-0910                         |           |
| 11       | 39100-0811                           | 39100-0911                         |           |
| 12       | 39100-0812                           | 39100-0912                         |           |

## 10.00mm (.394") Pitch Two-Screw Terminal Strips

### 39100 Panel Mount



Low Profile

Standard Profile

#### Features and Benefits

- Modular design allows larger blocks to be easily cut to smaller circuit sizes
- Easy installation saves time and money
- Contacts and screws are recessed within the housing to help avoid short circuits
- Wire protectors prevent wire damage during connection
- Also known as "Eurostrips" or Europa Terminal blocks

#### Reference Information

Packaging: Bag  
UL File No.: E48521  
Flammability: UL 94V-2  
Designed In: Millimeters

#### Electrical

Voltage: Standard Profile—600V  
Low Profile—300V  
Current: 30.0A  
Insulation Resistance: 5000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 0.79Nm (7 in.-lb)

#### Physical

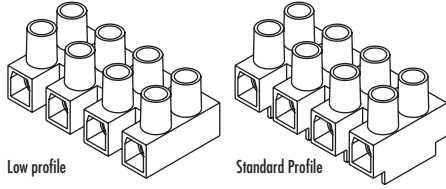
Housing: Polyamide 6/6, natural color  
Terminal: Brass  
Wire Protector: Brass  
Screw: Steel, M3  
Plating: Terminal Area—Nickel  
Wire Protector—Nickel  
Screw—Zinc  
Wire Range: 10 to 18 AWG  
Operating Temperature: -40 to +105°C

| Circuits | Order No.                            |                                    | Lead-free |
|----------|--------------------------------------|------------------------------------|-----------|
|          | Standard Profile<br>(with standoffs) | Low Profile<br>(without standoffs) |           |
| 2        | 39100-1002                           | 39100-1102                         | Yes       |
| 3        | 39100-1003                           | 39100-1103                         |           |
| 4        | 39100-1004                           | 39100-1104                         |           |
| 5        | 39100-1005                           | 39100-1105                         |           |
| 6        | 39100-1006                           | 39100-1106                         |           |
| 7        | 39100-1007                           | 39100-1107                         |           |

| Circuits | Order No.                            |                                    | Lead-free |
|----------|--------------------------------------|------------------------------------|-----------|
|          | Standard Profile<br>(with standoffs) | Low Profile<br>(without standoffs) |           |
| 8        | 39100-1008                           | 39100-1108                         | Yes       |
| 9        | 39100-1009                           | 39100-1109                         |           |
| 10       | 39100-1010                           | 39100-1110                         |           |
| 11       | 39100-1011                           | 39100-1111                         |           |
| 12       | 39100-1012                           | 39100-1112                         |           |

# 12.00mm (.472") Pitch Two-Screw Terminal Strips

## 39100 Panel Mount



### Features and Benefits

- Modular design allows larger blocks to be easily cut to smaller circuit sizes
- Easy installation saves time and money
- Contacts and screws are recessed within the housing to help avoid short circuits
- Wire protectors prevent wire damage during connection
- Also known as "Eurostrips" or Europa Terminal blocks

### Reference Information

Packaging: Bag  
UL File No.: E48521  
Flammability: UL 94V-2  
Designed In: Millimeters

### Electrical

Voltage: Standard Profile—600V  
Low Profile—300V  
Current: 40.0A  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Recommended Tightening Torque: 0.79Nm (7 in.-lbs)

### Physical

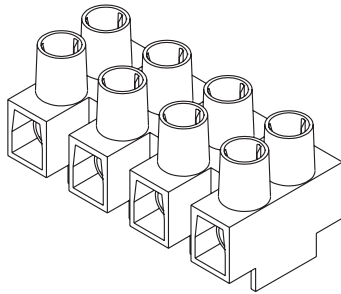
Housing: Polyamide 6/6, natural color  
Terminal: Brass  
Wire Protector: Brass  
Screw: Steel, M3.5  
Plating: Terminal Area—Nickel  
Wire Protector—Nickel  
Screw—Zinc  
Wire Range: 8 to 20 AWG  
Operating Temperature: -40 to +105°C

| Circuits | Order No.                            |                                    | Lead-free |
|----------|--------------------------------------|------------------------------------|-----------|
|          | Standard Profile<br>(with standoffs) | Low Profile<br>(without standoffs) |           |
| 2        | 39100-1202                           | 39100-1302                         | Yes       |
| 3        | 39100-1203                           | 39100-1303                         |           |
| 4        | 39100-1204                           | 39100-1304                         |           |
| 5        | 39100-1205                           | 39100-1305                         |           |
| 6        | 39100-1206                           | 39100-1306                         |           |
| 7        | 39100-1207                           | 39100-1307                         |           |

| Circuits | Order No.                            |                                    | Lead-free |
|----------|--------------------------------------|------------------------------------|-----------|
|          | Standard Profile<br>(with standoffs) | Low Profile<br>(without standoffs) |           |
| 8        | 39100-1208                           | 39100-1308                         | Yes       |
| 9        | 39100-1209                           | 39100-1309                         |           |
| 10       | 39100-1210                           | 39100-1310                         |           |
| 11       | 39100-1211                           | 39100-1311                         |           |
| 12       | 39100-1212                           | 39100-1312                         |           |

# 15.00mm (.591") Pitch Two-Screw Terminal Strip

## 39100 Panel Mount



### Features and Benefits

- Modular design allows larger blocks to be easily cut to smaller circuit sizes
- Easy installation saves time and money
- Contacts and screws are recessed within the housing to help avoid short circuits
- Wire protectors prevent wire damage during connection
- Also known as "Eurostrips" or Europa Terminal blocks

### Reference Information

Packaging: Bag  
UL File No.: E48521  
Flammability: UL 94V-2  
Designed In: Inches

### Electrical

Voltage: 600V  
Current: 63.0A  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Recommended Tightening Torque: 2.26Nm (20 in.-lb)

### Physical

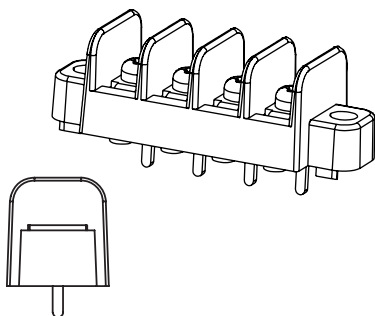
Housing: Polyamide 6/6, natural color  
Contact: Brass  
Wire Protector: Brass  
Screw: Steel, M5  
Plating: Contact Area—Nickel  
Wire Protector—Nickel  
Screw—Zinc  
Wire Range: 6 to 14 AWG  
Operating Temperature: -40 to +105°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 39100-1502 | Yes       |
| 3        | 39100-1503 |           |
| 4        | 39100-1504 |           |
| 5        | 39100-1505 |           |
| 6        | 39100-1506 |           |
| 7        | 39100-1507 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 8        | 39100-1508 | Yes       |
| 9        | 39100-1509 |           |
| 10       | 39100-1510 |           |
| 11       | 39100-1511 |           |
| 12       | 39100-1512 |           |

# 6.35mm (.250") Pitch Beau™ Barrier Terminal Strips

## 38610 PC Terminal



### Features and Benefits

- Smallest footprint available conserves PCB real estate and provides higher density
- Molded from thermoplastic which is less brittle than Phenolic
- Phillips/slotted combo head screws mean these parts are easy to install and don't require any special tools

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 250V  
Current: 10.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 1000 Megohms min.

### Mechanical

Recommended Tightening Torque: 0.34Nm (3 in.-lb)

### Physical

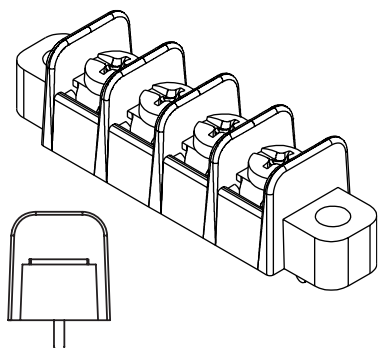
Housing: PBT, black  
Terminal: Brass  
Screw: Brass, #3-48, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Nickel  
Wire Range: 18 to 22 AWG  
Operating Temperature: -40° to +130°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38610-6402         | 38610-6602            | Yes       |
| 3        | 38610-6403         | 38610-6603            |           |
| 4        | 38610-6404         | 38610-6604            |           |
| 5        | 38610-6405         | 38610-6605            |           |
| 6        | 38610-6406         | 38610-6606            |           |
| 7        | 38610-6407         | 38610-6607            |           |
| 8        | 38610-6408         | 38610-6608            |           |
| 9        | 38610-6409         | 38610-6609            |           |
| 10       | 38610-6410         | 38610-6610            |           |
| 11       | 38610-6411         | 38610-6611            |           |
| 12       | 38610-6412         | 38610-6612            |           |
| 13       | 38610-6413         | 38610-6613            |           |
| 14       | 38610-6414         | 38610-6614            |           |
| 15       | 38610-6415         | 38610-6615            |           |
| 16       | 38610-6416         | 38610-6616            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 17       | 38610-6417         | 38610-6617            | Yes       |
| 18       | 38610-6418         | 38610-6618            |           |
| 19       | 38610-6419         | 38610-6619            |           |
| 20       | 38610-6420         | 38610-6620            |           |
| 21       | 38610-6421         | 38610-6621            |           |
| 22       | 38610-6422         | 38610-6622            |           |
| 23       | 38610-6423         | 38610-6623            |           |
| 24       | 38610-6424         | 38610-6624            |           |
| 25       | 38610-6425         | 38610-6625            |           |
| 26       | 38610-6426         | 38610-6626            |           |
| 27       | 38610-6427         | 38610-6627            |           |
| 28       | 38610-6428         | 38610-6628            |           |
| 29       | 38610-6429         | 38610-6629            |           |
| 30       | 38610-6430         | 38610-6630            |           |
| 31       | 38610-6431         | 38610-6631            |           |
| 32       | 38610-6432         | 38610-6632            |           |

# 8.26mm (.325") Pitch Beau™ Barrier Terminal Strips

**38700**  
**PC Terminal**



## Features and Benefits

- Our most popular style of barrier strip, can be used in a wide variety of applications
- Molded from thermoplastic which is less brittle than Phenolic
- Optional Mounting ends ensure parts are securely mounted to the PCB
- Phillips/slotted combo head screws mean these parts are easy to install and don't require any special tooling

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

## Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 1000 Megohms min.

## Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

## Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38700-6102         | 38700-6302            | Yes       |
| 3        | 38700-6103         | 38700-6303            |           |
| 4        | 38700-6104         | 38700-6304            |           |
| 5        | 38700-6105         | 38700-6305            |           |
| 6        | 38700-6106         | 38700-6306            |           |
| 7        | 38700-6107         | 38700-6307            |           |
| 8        | 38700-6108         | 38700-6308            |           |
| 9        | 38700-6109         | 38700-6309            |           |
| 10       | 38700-6110         | 38700-6310            |           |
| 11       | 38700-6111         | 38700-6311            |           |
| 12       | 38700-6112         | 38700-6312            |           |
| 13       | 38700-6113         | 38700-6313            |           |
| 14       | 38700-6114         | 38700-6314            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 15       | 38700-6115         | 38700-6315            | Yes       |
| 16       | 38700-6116         | 38700-6316            |           |
| 17       | 38700-6117         | 38700-6317            |           |
| 18       | 38700-6118         | 38700-6318            |           |
| 19       | 38700-6119         | 38700-6319            |           |
| 20       | 38700-6120         | 38700-6320            |           |
| 21       | 38700-6121         | 38700-6321            |           |
| 22       | 38700-6122         | 38700-6322            |           |
| 23       | 38700-6123         | 38700-6323            |           |
| 24       | 38700-6124         | 38700-6324            |           |
| 25       | 38700-6125         | 38700-6325            |           |
| 26       | 38700-6126         | 38700-6326            |           |

# 8.26mm (.325") Pitch

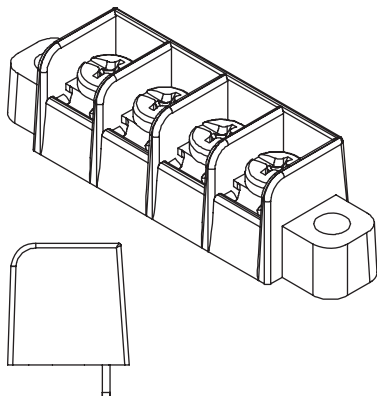
## Beau™

### Tri-Barrier

### Terminal Strips

#### 38704

#### PC Terminal



#### Features and Benefits

- One of our most popular pitch sizes
- Tri-barrier construction prevents short circuits and improves isolation allowing other components to be placed close to the trip to conserve board space
- Mounting ends ensure parts are securely mounted to the PCB
- Molded from thermoplastic which is less brittle than Phenolic
- Phillips/slotted combo head screws mean these parts are easy to install and don't require any special tooling

#### Reference Information

Packaging: Tray  
 UL File No.: E48521  
 Flammability: UL 94V-0  
 Designed In: Inches

#### Electrical

Voltage: 300V  
 Current: 15.0A  
 Dielectric Withstanding Voltage: 1600V AC  
 Insulation Resistance: 1000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

#### Physical

Housing: PBT, black  
 Terminal: Brass  
 Screw: Steel, #6-32, Phillips/Slot combo head  
 Plating: Terminal Area—Tin  
               Screw—Zinc with clear chromate  
 Wire Range: 14 to 22 AWG  
 Operating Temperature: -40° to +110°C

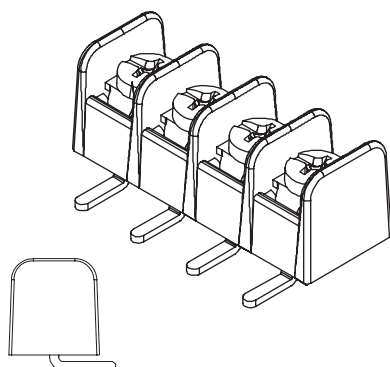
| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38704-4002         | 38704-4102            | Yes       |
| 3        | 38704-4003         | 38704-4102            |           |
| 4        | 38704-4004         | 38704-4102            |           |
| 5        | 38704-4005         | 38704-4102            |           |
| 6        | 38704-4006         | 38704-4102            |           |
| 7        | 38704-4007         | 38704-4102            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 8        | 38704-4008         | 38704-4108            | Yes       |
| 9        | 38704-4009         | 38704-4109            |           |
| 10       | 38704-4010         | 38704-4110            |           |
| 11       | 38704-4011         | 38704-4111            |           |
| 12       | 38704-4012         | 38704-4112            |           |

# 8.26mm (.325") Pitch Beau™ Barrier Terminal Strips

**38701**

**Right Angle PC Terminal**



## Features and Benefits

- Molded from thermoplastic which is less brittle than Phenolic resins
- One of our most popular pitch sizes

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

## Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

## Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

## Physical

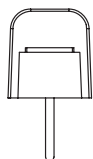
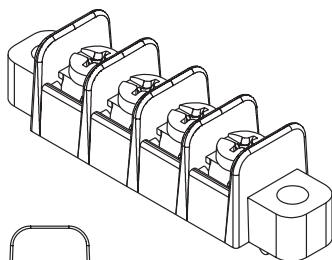
Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38701-5102         | 38701-5302            | Yes       |
| 3        | 38701-5103         | 38701-5303            |           |
| 4        | 38701-5104         | 38701-5304            |           |
| 5        | 38701-5105         | 38701-5305            |           |
| 6        | 38701-5106         | 38701-5306            |           |
| 7        | 38701-5107         | 38701-5307            |           |
| 8        | 38701-5108         | 38701-5308            |           |
| 9        | 38701-5109         | 38701-5309            |           |
| 10       | 38701-5110         | 38701-5310            |           |
| 11       | 38701-5111         | 38701-5311            |           |
| 12       | 38701-5112         | 38701-5312            |           |
| 13       | 38701-5113         | 38701-5313            |           |
| 14       | 38701-5114         | 38701-5314            |           |
| 15       | 38701-5115         | 38701-5315            |           |
| 16       | 38701-5116         | 38701-5316            |           |
| 17       | 38701-5117         | 38701-5317            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 18       | 38701-5118         | 38701-5318            | Yes       |
| 19       | 38701-5119         | 38701-5319            |           |
| 20       | 38701-5120         | 38701-5320            |           |
| 21       | 38701-5121         | 38701-5321            |           |
| 22       | 38701-5122         | 38701-5322            |           |
| 23       | 38701-5123         | 38701-5323            |           |
| 24       | 38701-5124         | 38701-5324            |           |
| 25       | 38701-5125         | 38701-5325            |           |
| 26       | 38701-5126         | 38701-5326            |           |
| 27       | 38701-5127         | 38701-5327            |           |
| 28       | 38701-5128         | 38701-5328            |           |
| 29       | 38701-5129         | 38701-5329            |           |
| 30       | 38701-5130         | 38701-5330            |           |
| 31       | 38701-5131         | 38701-5331            |           |
| 32       | 38701-5132         | 38701-5332            |           |

# 8.26mm (.325") Pitch Beau™ Barrier Terminal Strips

## 38701 Wire Wrap Terminal



### Features and Benefits

- Molded from thermoplastic which is less brittle than Phenolic resins
- One of our most popular pitch sizes

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

### Physical

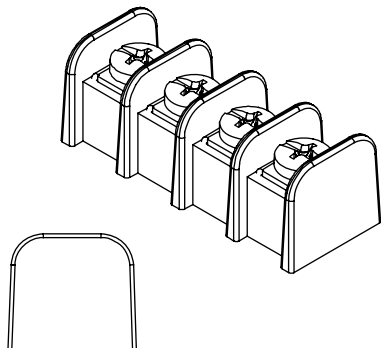
Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38701-2102         | 38701-2302            | Yes       |
| 3        | 38701-2103         | 38701-2303            |           |
| 4        | 38701-2104         | 38701-2304            |           |
| 5        | 38701-2105         | 38701-2305            |           |
| 6        | 38701-2106         | 38701-2306            |           |
| 7        | 38701-2107         | 38701-2307            |           |
| 8        | 38701-2108         | 38701-2308            |           |
| 9        | 38701-2109         | 38701-2309            |           |
| 10       | 38701-2110         | 38701-2310            |           |
| 11       | 38701-2111         | 38701-2311            |           |
| 12       | 38701-2112         | 38701-2312            |           |
| 13       | 38701-2113         | 38701-2313            |           |
| 14       | 38701-2114         | 38701-2314            |           |
| 15       | 38701-2115         | 38701-2315            |           |
| 16       | 38701-2116         | 38701-2316            |           |
| 17       | 38701-2117         | 38701-2317            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 18       | 38701-2118         | 38701-2318            | Yes       |
| 19       | 38701-2119         | 38701-2319            |           |
| 20       | 38701-2120         | 38701-2320            |           |
| 21       | 38701-2121         | 38701-2321            |           |
| 22       | 38701-2122         | 38701-2322            |           |
| 23       | 38701-2123         | 38701-2323            |           |
| 24       | 38701-2124         | 38701-2324            |           |
| 25       | 38701-2125         | 38701-2325            |           |
| 26       | 38701-2126         | 38701-2326            |           |
| 27       | 38701-2127         | 38701-2327            |           |
| 28       | 38701-2128         | 38701-2328            |           |
| 29       | 38701-2129         | 38701-2329            |           |
| 30       | 38701-2130         | 38701-2330            |           |
| 31       | 38701-2131         | 38701-2331            |           |
| 32       | 38701-2132         | 38701-2332            |           |

# 9.53mm (.375") Pitch Beau™ Barrier Terminal Strips

## 38710 Panel Mount



### Features and Benefits

- Molded from thermoplastic which is less brittle than Phenolic resins
- Low profile design conserves space

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

### Physical

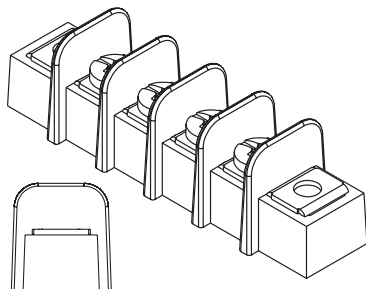
Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38710-0202         | 38710-0302            | Yes       |
| 3        | 38710-0203         | 38710-0303            |           |
| 4        | 38710-0204         | 38710-0304            |           |
| 5        | 38710-0205         | 38710-0305            |           |
| 6        | 38710-0206         | 38710-0306            |           |
| 7        | 38710-0207         | 38710-0307            |           |
| 8        | 38710-0208         | 38710-0308            |           |
| 9        | 38710-0209         | 38710-0309            |           |
| 10       | 38710-0210         | 38710-0310            |           |
| 11       | 38710-0211         | 38710-0311            |           |
| 12       | 38710-0212         | 38710-0312            |           |
| 13       | 38710-0213         | 38710-0313            |           |
| 14       | 38710-0214         | 38710-0314            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 15       | 38710-0215         | 38710-0315            | Yes       |
| 16       | 38710-0216         | 38710-0316            |           |
| 17       | 38710-0217         | 38710-0317            |           |
| 18       | 38710-0218         | 38710-0318            |           |
| 19       | 38710-0219         | 38710-0319            |           |
| 20       | 38710-0220         | 38710-0320            |           |
| 21       | 38710-0221         | 38710-0321            |           |
| 22       | 38710-0222         | 38710-0322            |           |
| 23       | 38710-0223         | 38710-0323            |           |
| 24       | 38710-0224         | 38710-0324            |           |
| 25       | 38710-0225         | 38710-0325            |           |
| 26       | 38710-0226         | 38710-0326            |           |

## 9.53mm (.375") Pitch Beau™ Barrier Terminal Strips

### 38720 Panel Mount



#### Features and Benefits

- Fast and easy to wire, no special tools required
- Molded from thermoplastic which is less brittle than Phenolic resins

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

#### Physical

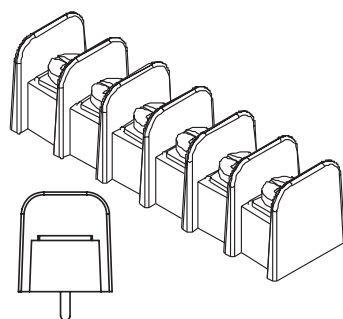
Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38720-0202         | 38720-0302            | Yes       |
| 3        | 38720-0203         | 38720-0303            |           |
| 4        | 38720-0204         | 38720-0304            |           |
| 5        | 38720-0205         | 38720-0305            |           |
| 6        | 38720-0206         | 38720-0306            |           |
| 7        | 38720-0207         | 38720-0307            |           |
| 8        | 38720-0208         | 38720-0308            |           |
| 9        | 38720-0209         | 38720-0309            |           |
| 10       | 38720-0210         | 38720-0310            |           |
| 11       | 38720-0211         | 38720-0311            |           |
| 12       | 38720-0212         | 38720-0312            |           |
| 13       | 38720-0213         | 38720-0313            |           |
| 14       | 38720-0214         | 38720-0314            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 15       | 38720-0215         | 38720-0315            | Yes       |
| 16       | 38720-0216         | 38720-0316            |           |
| 17       | 38720-0217         | 38720-0317            |           |
| 18       | 38720-0218         | 38720-0318            |           |
| 19       | 38720-0219         | 38720-0319            |           |
| 20       | 38720-0220         | 38720-0320            |           |
| 21       | 38720-0221         | 38720-0321            |           |
| 22       | 38720-0222         | 38720-0322            |           |
| 23       | 38720-0223         | 38720-0323            |           |
| 24       | 38720-0224         | 38720-0324            |           |
| 25       | 38720-0225         | 38720-0325            |           |
| 26       | 38720-0226         | 38720-0326            |           |

## 9.53mm (.375") Pitch Beau™ Barrier Terminal Strips

### 38720 PC Terminal



#### Features and Benefits

- One of our most popular pitch sizes
- Mounting ends ensure parts are securely mounted to the PCB
- Molded from thermoplastic which is less brittle than Phenolic
- Phillips/slotted combo head screws mean these parts are easy to install and don't require any special tooling

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 1000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

#### Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Philips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

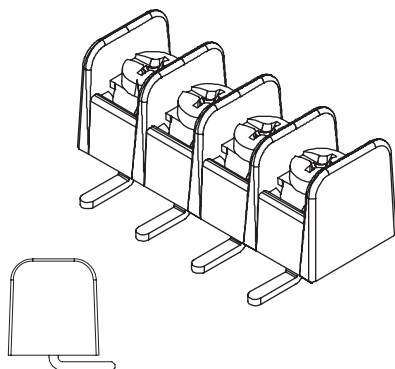
| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38720-6202         | 38720-6302            | Yes       |
| 3        | 38720-6203         | 38720-6303            |           |
| 4        | 38720-6204         | 38720-6304            |           |
| 5        | 38720-6205         | 38720-6305            |           |
| 6        | 38720-6206         | 38720-6306            |           |
| 7        | 38720-6207         | 38720-6307            |           |
| 8        | 38720-6208         | 38720-6308            |           |
| 9        | 38720-6209         | 38720-6309            |           |
| 10       | 38720-6210         | 38720-6310            |           |
| 11       | 38720-6211         | 38720-6311            |           |
| 12       | 38720-6212         | 38720-6312            |           |
| 13       | 38720-6213         | 38720-6313            |           |
| 14       | 38720-6214         | 38720-6314            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 15       | 38720-6215         | 38720-6315            | Yes       |
| 16       | 38720-6216         | 38720-6316            |           |
| 17       | 38720-6217         | 38720-6317            |           |
| 18       | 38720-6218         | 38720-6318            |           |
| 19       | 38720-6219         | 38720-6319            |           |
| 20       | 38720-6220         | 38720-6320            |           |
| 21       | 38720-6221         | 38720-6321            |           |
| 22       | 38720-6222         | 38720-6322            |           |
| 23       | 38720-6223         | 38720-6323            |           |
| 24       | 38720-6224         | 38720-6324            |           |
| 25       | 38720-6225         | 38720-6325            |           |
| 26       | 38720-6226         | 38720-6326            |           |

# 9.53mm (.375") Pitch Beau™ Barrier Terminal Strips

**38711**

## Right Angle PC Terminal



### Features and Benefits

- Molded from thermoplastic which is less brittle than Phenolic resins
- Low profile design conserves space

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

### Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

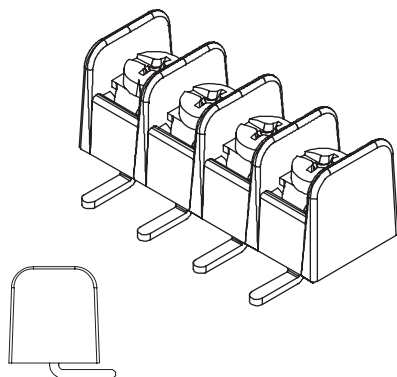
| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38711-5202         | 38711-5302            | Yes       |
| 3        | 38711-5203         | 38711-5303            |           |
| 4        | 38711-5204         | 38711-5304            |           |
| 5        | 38711-5205         | 38711-5305            |           |
| 6        | 38711-5206         | 38711-5306            |           |
| 7        | 38711-5207         | 38711-5307            |           |
| 8        | 38711-5208         | 38711-5308            |           |
| 9        | 38711-5209         | 38711-5309            |           |
| 10       | 38711-5210         | 38711-5310            |           |
| 11       | 38711-5211         | 38711-5311            |           |
| 12       | 38711-5212         | 38711-5312            |           |
| 13       | 38711-5213         | 38711-5313            |           |
| 14       | 38711-5214         | 38711-5314            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 15       | 38711-5215         | 38711-5315            | Yes       |
| 16       | 38711-5216         | 38711-5316            |           |
| 17       | 38711-5217         | 38711-5317            |           |
| 18       | 38711-5218         | 38711-5318            |           |
| 19       | 38711-5219         | 38711-5319            |           |
| 20       | 38711-5220         | 38711-5320            |           |
| 21       | 38711-5221         | 38711-5321            |           |
| 22       | 38711-5222         | 38711-5322            |           |
| 23       | 38711-5223         | 38711-5323            |           |
| 24       | 38711-5224         | 38711-5324            |           |
| 25       | 38711-5225         | 38711-5325            |           |
| 26       | 38711-5226         | 38711-5326            |           |

# 9.53mm (.375") Pitch Beau™ Barrier Terminal Strips

## 38721

### Right Angle PC Terminal



#### Features and Benefits

- Fast and easy to wire, no special tools required
- Molded from thermoplastic which is less brittle than Phenolic resins

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

#### Physical

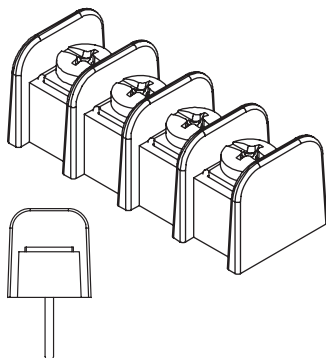
Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38721-5202         | 38721-5302            | Yes       |
| 3        | 38721-5203         | 38721-5303            |           |
| 4        | 38721-5204         | 38721-5304            |           |
| 5        | 38721-5205         | 38721-5305            |           |
| 6        | 38721-5206         | 38721-5306            |           |
| 7        | 38721-5207         | 38721-5307            |           |
| 8        | 38721-5208         | 38721-5308            |           |
| 9        | 38721-5209         | 38721-5309            |           |
| 10       | 38721-5210         | 38721-5310            |           |
| 11       | 38721-5211         | 38721-5311            |           |
| 12       | 38721-5212         | 38721-5312            |           |
| 13       | 38721-5213         | 38721-5313            |           |
| 14       | 38721-5214         | 38721-5314            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 15       | 38721-5215         | 38721-5315            | Yes       |
| 16       | 38721-5216         | 38721-5316            |           |
| 17       | 38721-5217         | 38721-5317            |           |
| 18       | 38721-5218         | 38721-5318            |           |
| 19       | 38721-5219         | 38721-5319            |           |
| 20       | 38721-5220         | 38721-5320            |           |
| 21       | 38721-5221         | 38721-5321            |           |
| 22       | 38721-5222         | 38721-5322            |           |
| 23       | 38721-5223         | 38721-5323            |           |
| 24       | 38721-5224         | 38721-5324            |           |
| 25       | 38721-5225         | 38721-5325            |           |
| 26       | 38721-5226         | 38721-5326            |           |

# 9.53mm (.375") Pitch Beau™ Barrier Terminal Strips

## 38711 Wire Wrap Terminal



### Features and Benefits

- Molded from thermoplastic which is less brittle than Phenolic resins
- Low profile design conserves space

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

### Physical

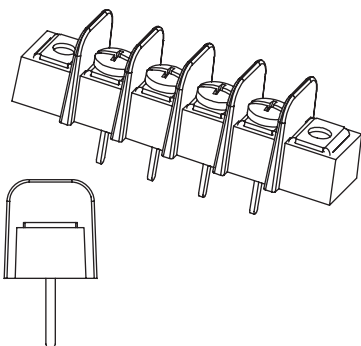
Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38711-2202         | 38711-2302            | Yes       |
| 3        | 38711-2203         | 38711-2303            |           |
| 4        | 38711-2204         | 38711-2304            |           |
| 5        | 38711-2205         | 38711-2305            |           |
| 6        | 38711-2206         | 38711-2306            |           |
| 7        | 38711-2207         | 38711-2307            |           |
| 8        | 38711-2208         | 38711-2308            |           |
| 9        | 38711-2209         | 38711-2309            |           |
| 10       | 38711-2210         | 38711-2310            |           |
| 11       | 38711-2211         | 38711-2311            |           |
| 12       | 38711-2212         | 38711-2312            |           |
| 13       | 38711-2213         | 38711-2313            |           |
| 14       | 38711-2214         | 38711-2314            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 15       | 38711-2215         | 38711-2315            | Yes       |
| 16       | 38711-2216         | 38711-2316            |           |
| 17       | 38711-2217         | 38711-2317            |           |
| 18       | 38711-2218         | 38711-2318            |           |
| 19       | 38711-2219         | 38711-2319            |           |
| 20       | 38711-2220         | 38711-2320            |           |
| 21       | 38711-2221         | 38711-2321            |           |
| 22       | 38711-2222         | 38711-2322            |           |
| 23       | 38711-2223         | 38711-2323            |           |
| 24       | 38711-2224         | 38711-2324            |           |
| 25       | 38711-2225         | 38711-2325            |           |
| 26       | 38711-2226         | 38711-2326            |           |

# 9.53mm (.375") Pitch Beau™ Barrier Terminal Strips

## 38721 Wire Wrap Terminal



### Features and Benefits

- Fast and easy to wire, no special tools required
- Molded from thermoplastic which is less brittle than Phenolic resins

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

### Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

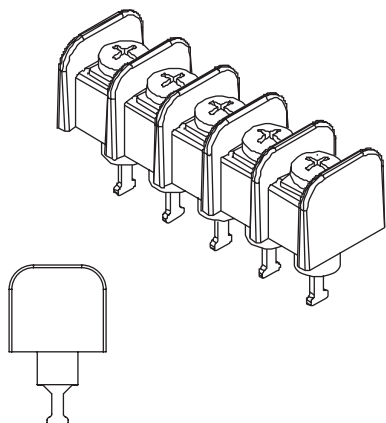
| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38721-2202         | 38721-2302            | Yes       |
| 3        | 38721-2203         | 38721-2303            |           |
| 4        | 38721-2204         | 38721-2304            |           |
| 5        | 38721-2205         | 38721-2305            |           |
| 6        | 38721-2206         | 38721-2306            |           |
| 7        | 38721-2207         | 38721-2307            |           |
| 8        | 38721-2208         | 38721-2308            |           |
| 9        | 38721-2209         | 38721-2309            |           |
| 10       | 38721-2210         | 38721-2310            |           |
| 11       | 38721-2211         | 38721-2311            |           |
| 12       | 38721-2212         | 38721-2312            |           |
| 13       | 38721-2213         | 38721-2313            |           |
| 14       | 38721-2214         | 38721-2314            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 15       | 38721-2215         | 38721-2315            | Yes       |
| 16       | 38721-2216         | 38721-2316            |           |
| 17       | 38721-2217         | 38721-2317            |           |
| 18       | 38721-2218         | 38721-2318            |           |
| 19       | 38721-2219         | 38721-2319            |           |
| 20       | 38721-2220         | 38721-2320            |           |
| 21       | 38721-2221         | 38721-2321            |           |
| 22       | 38721-2222         | 38721-2322            |           |
| 23       | 38721-2223         | 38721-2323            |           |
| 24       | 38721-2224         | 38721-2324            |           |
| 25       | 38721-2225         | 38721-2325            |           |
| 26       | 38721-2226         | 38721-2326            |           |

# 9.53mm (.375") Pitch Beau™ Barrier Terminal Strips

38710

Insulated Solder Turret Terminal



## Features and Benefits

- Molded from thermoplastic which is less brittle than Phenolic resins
- Low profile design conserves space

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

## Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

## Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

## Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38710-3202         | 38710-3302            | Yes       |
| 3        | 38710-3203         | 38710-3303            |           |
| 4        | 38710-3204         | 38710-3304            |           |
| 5        | 38710-3205         | 38710-3305            |           |
| 6        | 38710-3206         | 38710-3306            |           |
| 7        | 38710-3207         | 38710-3307            |           |
| 8        | 38710-3208         | 38710-3308            |           |
| 9        | 38710-3209         | 38710-3309            |           |
| 10       | 38710-3210         | 38710-3310            |           |
| 11       | 38710-3211         | 38710-3311            |           |
| 12       | 38710-3212         | 38710-3312            |           |
| 13       | 38710-3213         | 38710-3313            |           |
| 14       | 38710-3214         | 38710-3314            |           |

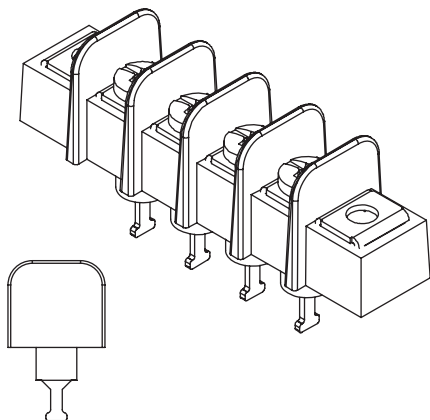
| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 15       | 38710-3215         | 38710-3315            | Yes       |
| 16       | 38710-3216         | 38710-3316            |           |
| 17       | 38710-3217         | 38710-3317            |           |
| 18       | 38710-3218         | 38710-3318            |           |
| 19       | 38710-3219         | 38710-3319            |           |
| 20       | 38710-3220         | 38710-3320            |           |
| 21       | 38710-3221         | 38710-3321            |           |
| 22       | 38710-3222         | 38710-3322            |           |
| 23       | 38710-3223         | 38710-3323            |           |
| 24       | 38710-3224         | 38710-3324            |           |
| 25       | 38710-3225         | 38710-3325            |           |
| 26       | 38710-3226         | 38710-3326            |           |

# 9.53mm (.375") Pitch

## Beau™ Barrier Terminal Strips

### 38720

### Insulated Solder Turret Terminal



#### Features and Benefits

- Molded from thermoplastic which is less brittle than Phenolic resins

#### Reference Information

Packaging: Tray  
 UL File No.: E48521  
 Flammability: UL 94V-0  
 Designed In: Inches

#### Electrical

Voltage: 300V  
 Current: 25.0A  
 Dielectric Withstanding Voltage: 1600V AC  
 Insulation Resistance: 5000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

#### Physical

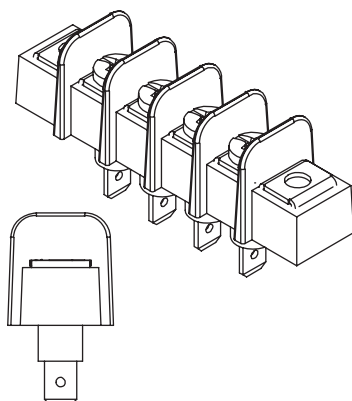
Housing: PBT, black  
 Terminal: Brass  
 Screw: Steel, #6-32, Phillips/Slot combo head  
 Plating: Terminal—Tin  
               Screw—Zinc with clear chromate  
 Wire Range: 14 to 22 AWG  
 Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38720-3202         | 38720-3302            | Yes       |
| 3        | 38720-3203         | 38720-3303            |           |
| 4        | 38720-3204         | 38720-3304            |           |
| 5        | 38720-3205         | 38720-3305            |           |
| 6        | 38720-3206         | 38720-3306            |           |
| 7        | 38720-3207         | 38720-3307            |           |
| 8        | 38720-3208         | 38720-3308            |           |
| 9        | 38720-3209         | 38720-3309            |           |
| 10       | 38720-3210         | 38720-3310            |           |
| 11       | 38720-3211         | 38720-3311            |           |
| 12       | 38720-3212         | 38720-3312            |           |
| 13       | 38720-3213         | 38720-3313            |           |
| 14       | 38720-3214         | 38720-3314            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 15       | 38720-3215         | 38720-3315            | Yes       |
| 16       | 38720-3216         | 38720-3316            |           |
| 17       | 38720-3217         | 38720-3317            |           |
| 18       | 38720-3218         | 38720-3318            |           |
| 19       | 38720-3219         | 38720-3319            |           |
| 20       | 38720-3220         | 38720-3320            |           |
| 21       | 38720-3221         | 38720-3321            |           |
| 22       | 38720-3222         | 38720-3322            |           |
| 23       | 38720-3223         | 38720-3323            |           |
| 24       | 38720-3224         | 38720-3324            |           |
| 25       | 38720-3225         | 38720-3325            |           |
| 26       | 38720-3226         | 38720-3326            |           |

# 9.53mm (.375") Pitch Beau™ Barrier Terminal Strips

## 38711 Insulated Quick Connect Terminal



### Features and Benefits

- Molded from thermoplastic which is less brittle than Phenolic resins
- Low profile design conserves space

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

### Physical

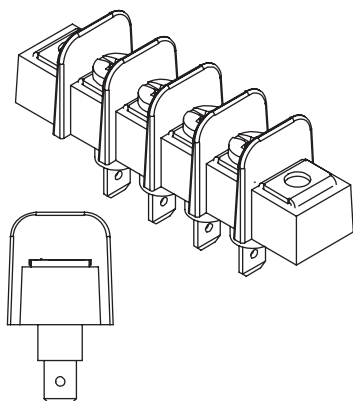
Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38711-6702         | 38711-6802            | Yes       |
| 3        | 38711-6703         | 38711-6803            |           |
| 4        | 38711-6704         | 38711-6804            |           |
| 5        | 38711-6705         | 38711-6805            |           |
| 6        | 38711-6706         | 38711-6806            |           |
| 7        | 38711-6707         | 38711-6807            |           |
| 8        | 38711-6708         | 38711-6808            |           |
| 9        | 38711-6709         | 38711-6809            |           |
| 10       | 38711-6710         | 38711-6810            |           |
| 11       | 38711-6711         | 38711-6811            |           |
| 12       | 38711-6712         | 38711-6812            |           |
| 13       | 38711-6713         | 38711-6813            |           |
| 14       | 38711-6714         | 38711-6814            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 15       | 38711-6715         | 38711-6815            | Yes       |
| 16       | 38711-6716         | 38711-6816            |           |
| 17       | 38711-6717         | 38711-6817            |           |
| 18       | 38711-6718         | 38711-6818            |           |
| 19       | 38711-6719         | 38711-6819            |           |
| 20       | 38711-6720         | 38711-6820            |           |
| 21       | 38711-6721         | 38711-6821            |           |
| 22       | 38711-6722         | 38711-6822            |           |
| 23       | 38711-6723         | 38711-6823            |           |
| 24       | 38711-6724         | 38711-6824            |           |
| 25       | 38711-6725         | 38711-6825            |           |
| 26       | 38711-6726         | 38711-6826            |           |

# 9.53mm (.375") Pitch Beau™ Barrier Terminal Strips

## 38721 Insulated Quick Connect Terminal



### Features and Benefits

- Fast and easy to wire, no special tools required
- Molded from thermoplastic which is less brittle than Phenolic resins

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

### Physical

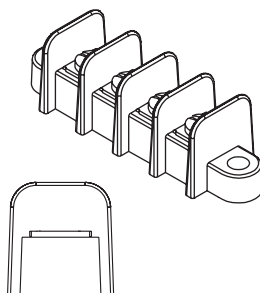
Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38721-6702         | 38721-6802            | Yes       |
| 3        | 38721-6703         | 38721-6803            |           |
| 4        | 38721-6704         | 38721-6804            |           |
| 5        | 38721-6705         | 38721-6805            |           |
| 6        | 38721-6706         | 38721-6806            |           |
| 7        | 38721-6707         | 38721-6807            |           |
| 8        | 38721-6708         | 38721-6808            |           |
| 9        | 38721-6709         | 38721-6809            |           |
| 10       | 38721-6710         | 38721-6810            |           |
| 11       | 38721-6711         | 38721-6811            |           |
| 12       | 38721-6712         | 38721-6812            |           |
| 13       | 38721-6713         | 38721-6813            |           |
| 14       | 38721-6714         | 38721-6814            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 15       | 38721-6715         | 38721-6815            | Yes       |
| 16       | 38721-6716         | 38721-6816            |           |
| 17       | 38721-6717         | 38721-6817            |           |
| 18       | 38721-6718         | 38721-6818            |           |
| 19       | 38721-6719         | 38721-6819            |           |
| 20       | 38721-6720         | 38721-6820            |           |
| 21       | 38721-6721         | 38721-6821            |           |
| 22       | 38721-6722         | 38721-6822            |           |
| 23       | 38721-6723         | 38721-6823            |           |
| 24       | 38721-6724         | 38721-6824            |           |
| 25       | 38721-6725         | 38721-6825            |           |
| 26       | 38721-6726         | 38721-6826            |           |

# 11.11mm (.438") Pitch Beau™ Barrier Terminal Strips

## 38730 Panel Mount



### Features and Benefits

- Fast and easy to wire, no special tools required
- Molded from thermoplastic which is less brittle than Phenolic resins

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

### Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc Chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

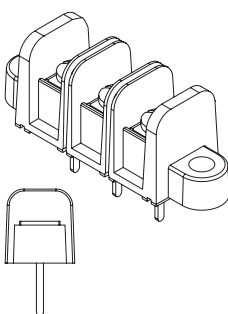
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 38730-0102 | Yes       |
| 3        | 38730-0103 |           |
| 4        | 38730-0104 |           |
| 5        | 38730-0105 |           |
| 6        | 38730-0106 |           |
| 7        | 38730-0107 |           |
| 8        | 38730-0108 |           |
| 9        | 38730-0109 |           |
| 10       | 38730-0110 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 11       | 38730-0111 | Yes       |
| 12       | 38730-0112 |           |
| 13       | 38730-0113 |           |
| 14       | 38730-0114 |           |
| 15       | 38730-0115 |           |
| 16       | 38730-0116 |           |
| 17       | 38730-0117 |           |
| 18       | 38730-0118 |           |
| 19       | 38730-0119 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 20       | 38730-0120 | Yes       |
| 21       | 38730-0121 |           |
| 22       | 38730-0122 |           |
| 23       | 38730-0123 |           |
| 24       | 38730-0124 |           |
| 25       | 38730-0125 |           |
| 26       | 38730-0126 |           |

# 11.11mm (.438") Pitch Beau™ Barrier Terminal Strips

## 38630 Wire Wrap Terminal



### Features and Benefits

- Our smallest 600V barrier style terminal block provides high-voltage density
- Molded from thermoplastic which is less brittle than Phenolic resins

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 600V  
Current: 15.0A  
Dielectric Withstanding Voltage: 2200V AC  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

### Physical

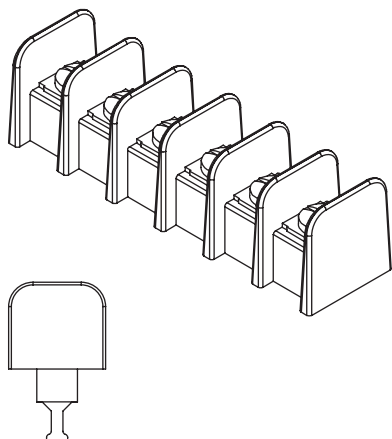
Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Bright zinc  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38631-2402         | 38631-2602            | Yes       |
| 3        | 38631-2403         | 38631-2603            |           |
| 4        | 38631-2404         | 38631-2604            |           |
| 5        | 38631-2405         | 38631-2605            |           |
| 6        | 38631-2406         | 38631-2606            |           |
| 7        | 38631-2407         | 38631-2607            |           |
| 8        | 38631-2408         | 38631-2608            |           |
| 9        | 38631-2409         | 38631-2609            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 10       | 38631-2410         | 38631-2610            | Yes       |
| 11       | 38631-2411         | 38631-2611            |           |
| 12       | 38631-2412         | 38631-2612            |           |
| 13       | 38631-2413         | 38631-2613            |           |
| 14       | 38631-2414         | 38631-2614            |           |
| 15       | 38631-2415         | 38631-2615            |           |
| 16       | 38631-2416         | 38631-2616            |           |

# 11.11mm (.438") Pitch Beau™ Barrier Terminal Strips

## 38730 Insulated Solder Turret Terminal



### Features and Benefits

- Molded from thermoplastic which is less brittle than Phenolic resins

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

### Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

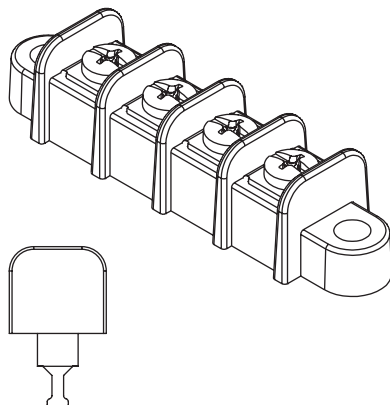
| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38730-3102         | 38730-3302            | Yes       |
| 3        | 38730-3103         | 38730-3303            |           |
| 4        | 38730-3104         | 38730-3304            |           |
| 5        | 38730-3105         | 38730-3305            |           |
| 6        | 38730-3106         | 38730-3306            |           |
| 7        | 38730-3107         | 38730-3307            |           |
| 8        | 38730-3108         | 38730-3308            |           |
| 9        | 38730-3109         | 38730-3309            |           |
| 10       | 38730-3110         | 38730-3310            |           |
| 11       | 38730-3111         | 38730-3311            |           |
| 12       | 38730-3112         | 38730-3312            |           |
| 13       | 38730-3113         | 38730-3313            |           |
| 14       | 38730-3114         | 38730-3314            |           |
| 15       | 38730-3115         | 38730-3315            |           |
| 16       | 38730-3116         | 38730-3316            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 17       | 38730-3117         | 38730-3317            | Yes       |
| 18       | 38730-3118         | 38730-3318            |           |
| 19       | 38730-3119         | 38730-3319            |           |
| 20       | 38730-3120         | 38730-3320            |           |
| 21       | 38730-3121         | 38730-3321            |           |
| 22       | 38730-3122         | 38730-3322            |           |
| 23       | 38730-3123         | 38730-3323            |           |
| 24       | 38730-3124         | 38730-3324            |           |
| 25       | 38730-3125         | 38730-3325            |           |
| 26       | 38730-3126         | 38730-3326            |           |
| 27       | 38730-3127         | 38730-3327            |           |
| 28       | 38730-3128         | 38730-3328            |           |
| 29       | 38730-3129         | 38730-3329            |           |
| 30       | 38730-3130         | 38730-3330            |           |

# 11.11mm (.438") Pitch Beau™ Barrier Terminal Strips

**38740**

**Insulated Solder Turret Terminal**



## Features and Benefits

- Molded from thermoplastic which is less brittle than Phenolic resins
- Low profile design conserves space

## Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

## Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

## Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

## Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38740-3102         | 38740-3302            | Yes       |
| 3        | 38740-3103         | 38740-3303            |           |
| 4        | 38740-3104         | 38740-3304            |           |
| 5        | 38740-3105         | 38740-3305            |           |
| 6        | 38740-3106         | 38740-3306            |           |
| 7        | 38740-3107         | 38740-3307            |           |
| 8        | 38740-3108         | 38740-3308            |           |
| 9        | 38740-3109         | 38740-3309            |           |
| 10       | 38740-3110         | 38740-3310            |           |
| 11       | 38740-3111         | 38740-3311            |           |
| 12       | 38740-3112         | 38740-3312            |           |
| 13       | 38740-3113         | 38740-3313            |           |
| 14       | 38740-3114         | 38740-3314            |           |
| 15       | 38740-3115         | 38740-3315            |           |
| 16       | 38740-3116         | 38740-3316            |           |

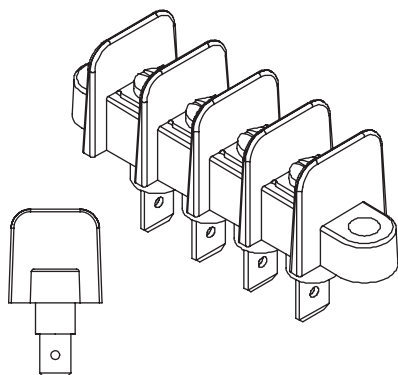
| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 17       | 38740-3117         | 38740-3317            | Yes       |
| 18       | 38740-3118         | 38740-3318            |           |
| 19       | 38740-3119         | 38740-3319            |           |
| 20       | 38740-3120         | 38740-3320            |           |
| 21       | 38740-3121         | 38740-3321            |           |
| 22       | 38740-3122         | 38740-3322            |           |
| 23       | 38740-3123         | 38740-3323            |           |
| 24       | 38740-3124         | 38740-3324            |           |
| 25       | 38740-3125         | 38740-3325            |           |
| 26       | 38740-3126         | 38740-3326            |           |
| 27       | 38740-3127         | 38740-3327            |           |
| 28       | 38740-3128         | 38740-3328            |           |
| 29       | 38740-3129         | 38740-3329            |           |
| 30       | 38740-3130         | 38740-3330            |           |

# 11.11mm (.438") Pitch

## Beau™ Barrier Terminal Strips

### 38730

### Insulated Quick Connect Terminal



#### Features and Benefits

- Fast and easy to wire, no special tools required
- Molded from thermoplastic which is less brittle than Phenolic resins

#### Reference Information

Packaging: Tray  
 UL File No.: E48521  
 Flammability: UL 94V-0  
 Designed In: Inches

#### Electrical

Voltage: 300V  
 Current: 15.0A  
 Dielectric Withstanding Voltage: 1600V AC  
 Insulation Resistance: 5000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

#### Physical

Housing: PBT, black  
 Terminal: Brass  
 Screw: Steel, #6-32, Phillips/Slot combo head  
 Plating: Terminal Area—Tin  
               Screw—Zinc with clear chromate  
 Wire Range: 14 to 22 AWG  
 Operating Temperature: -40° to +110°C

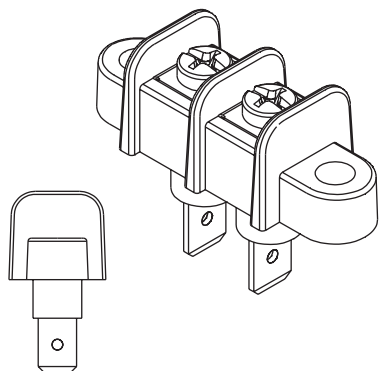
| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 2        | 38731-6602         | 38731-6802            | Yes       |
| 3        | 38731-6603         | 38731-6803            |           |
| 4        | 38731-6604         | 38731-6804            |           |
| 5        | 38731-6605         | 38731-6805            |           |
| 6        | 38731-6606         | 38731-6806            |           |
| 7        | 38731-6607         | 38731-6807            |           |
| 8        | 38731-6608         | 38731-6808            |           |
| 9        | 38731-6609         | 38731-6809            |           |
| 10       | 38731-6610         | 38731-6810            |           |
| 11       | 38731-6611         | 38731-6811            |           |
| 12       | 38731-6612         | 38731-6812            |           |
| 13       | 38731-6613         | 38731-6813            |           |
| 14       | 38731-6614         | 38731-6814            |           |
| 15       | 38731-6615         | 38731-6815            |           |
| 16       | 38731-6616         | 38731-6816            |           |

| Circuits | Order No.          |                       | Lead-free |
|----------|--------------------|-----------------------|-----------|
|          | With Mounting Ends | Without Mounting Ends |           |
| 17       | 38731-6617         | 38731-6817            | Yes       |
| 18       | 38731-6618         | 38731-6818            |           |
| 19       | 38731-6619         | 38731-6819            |           |
| 20       | 38731-6620         | 38731-6820            |           |
| 21       | 38731-6621         | 38731-6821            |           |
| 22       | 38731-6622         | 38731-6822            |           |
| 23       | 38731-6623         | 38731-6823            |           |
| 24       | 38731-6624         | 38731-6824            |           |
| 25       | 38731-6625         | 38731-6825            |           |
| 26       | 38731-6626         | 38731-6826            |           |
| 27       | 38731-6627         | 38731-6827            |           |
| 28       | 38731-6628         | 38731-6828            |           |
| 29       | 38731-6629         | 38731-6829            |           |
| 30       | 38731-6630         | 38731-6830            |           |

# 11.11mm (.438") Pitch Beau™ Barrier Terminal Strips

## 38741

### Insulated Quick Connect Terminal



| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 38741-6602 | Yes       |
| 3        | 38741-6603 |           |
| 4        | 38741-6604 |           |
| 5        | 38741-6605 |           |
| 6        | 38741-6606 |           |
| 7        | 38741-6607 |           |
| 8        | 38741-6608 |           |

#### Features and Benefits

- Molded from thermoplastic which is less brittle than Phenolic resins
- Low profile design conserves space

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 5000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

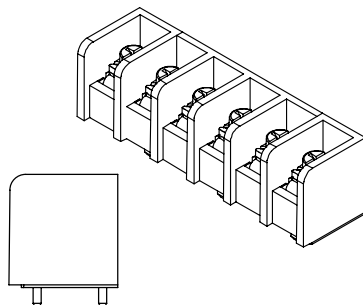
#### Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

# 12.70mm (.500") Pitch TSE Tri-Barrier Terminal Strips

## 38969

### PC Terminal



#### Features and Benefits

- Highest current and voltage rating of any Molex barrier terminal strip
- One of our most popular pitch sizes
- Tri-barrier construction prevents short circuits and improves isolation allowing other components to be placed close to the strip to conserve board space
- Molded from thermoplastic which is less brittle than Phenolic
- Phillips/slotted combo head screws mean these parts are easy to install and don't require any special tooling

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

#### Electrical

Voltage: 600V  
Current: 50.0A  
Dielectric Withstanding Voltage: 2200V AC  
Insulation Resistance: 500 Megohms min.

#### Mechanical

Recommended Tightening Torque: 1.81Nm (16 in. lb)

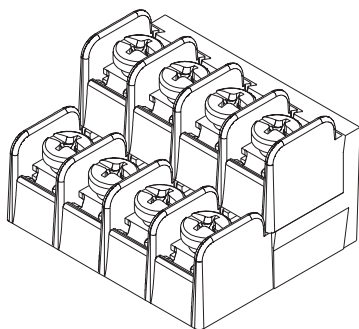
#### Physical

Housing: PBT, black  
Terminal: Brass  
Screw with Clamp Washer: Steel, M4, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Nickel  
Wire Gauge: 8 to 20 AWG  
Operating Temperature: -40° to +120°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 38969-0002 | Yes       |
| 3        | 38969-0003 |           |
| 4        | 38969-0004 |           |
| 5        | 38969-0005 |           |
| 6        | 38969-0006 |           |
| 7        | 38969-0007 |           |
| 8        | 38969-0008 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 38969-0009 | Yes       |
| 10       | 38969-0010 |           |
| 11       | 38969-0011 |           |
| 12       | 38969-0012 |           |
| 13       | 38969-0013 |           |
| 14       | 38969-0014 |           |
| 15       | 38969-0015 |           |

## 8.26mm (.325") Pitch Beau™ Barrier Terminal Strips

**38706**
**Dual Level, PC Terminal**


### Features and Benefits

- High density barrier terminal strip exceeds 6 circuits per inch.
- Single unit construction provides the lowest installed costs.
- Low profile and small footprint conserve space.

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0

### Electrical

Voltage: 300V  
Current: 15.0A  
Insulation Resistance: 5000 Megohms min.  
Dielectric Withstanding Voltage: 1600V AC

### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb.)  
Wire Range: 14 to 22 AWG

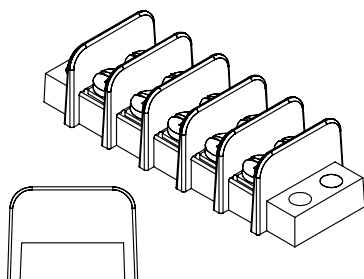
### Physical

Housing: Polysulfone, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal—Tin  
Screw—Zinc with clear chromate  
Operating Temperature: -40°C to +110°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 38706-0004 | Yes       |
| 6        | 38706-0006 |           |
| 8        | 38706-0008 |           |
| 10       | 38706-0010 |           |
| 12       | 38706-0012 |           |
| 14       | 38706-0014 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 16       | 38706-0016 | Yes       |
| 18       | 38706-0018 |           |
| 20       | 38706-0020 |           |
| 22       | 38706-0022 |           |
| 24       | 38706-0024 |           |

## 9.53mm (.375") Pitch TSE Double Row Barrier Terminal Strips

**38760/38770**
**Panel Mount**


### Features and Benefits

- Double row design makes wire-to-wire connections fast and easy
- Closed-bottom design allows the part to be mounted directly on a sheet metal panel or placed over a panel cutout
- Molded from thermoplastic which is less brittle than Phenolic

### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 1000 Megohms min.

### Mechanical

Recommended Tightening Torque: 1.26Nm (12 in.-lb.)

### Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Philips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

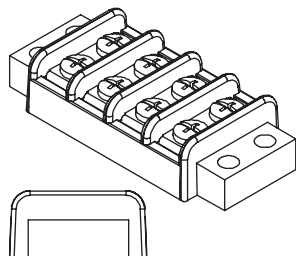
| Circuits | Order No.   |            | Lead-free |
|----------|-------------|------------|-----------|
|          | Low Profile | Standard   |           |
| 2        | 38770-0102  | 38760-0102 | Yes       |
| 3        | 38770-0103  | 38760-0103 |           |
| 4        | 38770-0104  | 38760-0104 |           |
| 5        | 38770-0105  | 38760-0105 |           |
| 6        | 38770-0106  | 38760-0106 |           |
| 7        | 38770-0107  | 38760-0107 |           |
| 8        | 38770-0108  | 38760-0108 |           |
| 9        | 38770-0109  | 38760-0109 |           |
| 10       | 38770-0110  | 38760-0110 |           |
| 11       | 38770-0111  | 38760-0111 |           |
| 12       | 38770-0112  | 38760-0112 |           |
| 13       | 38770-0113  | 38760-0113 |           |
| 14       | 38770-0114  | 38760-0114 |           |
| 15       | 38770-0115  | 38760-0115 |           |

| Circuits | Order No.   |            | Lead-free |
|----------|-------------|------------|-----------|
|          | Low Profile | Standard   |           |
| 16       | 38770-0116  | 38760-0116 | Yes       |
| 17       | 38770-0117  | 38760-0117 |           |
| 18       | 38770-0118  | 38760-0118 |           |
| 19       | 38770-0119  | 38760-0119 |           |
| 20       | 38770-0120  | 38760-0120 |           |
| 21       | 38770-0121  | 38760-0121 |           |
| 22       | 38770-0122  | 38760-0122 |           |
| 23       | 38770-0123  | 38760-0123 |           |
| 24       | 38770-0124  | 38760-0124 |           |
| 25       | 38770-0125  | 38760-0125 |           |
| 26       | 38770-0126  | 38760-0126 |           |
| 27       | 38770-0127  | 38760-0127 |           |
| 28       | 38770-0128  | 38760-0128 |           |
| 29       | 38770-0129  | 38760-0129 |           |
| 30       | 38770-0130  | 38760-0130 |           |

# 11.11mm (.438") Pitch Beau™ Double Row Barrier Terminal Strips

## 38780

### Panel Mount



#### Features and Benefits

- Double row design makes wire-to-wire connections fast and easy
- Highest power density of any double row Molex barrier strip
- Molded from thermoplastic which is less brittle than Phenolic resins
- Closed-bottom design allows the part to be mounted directly on a sheet metal panel or places over a panel cutout

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

#### Electrical

Voltage: 300V  
Current: 15.0A  
Dielectric Withstanding Voltage: 1600V AC  
Insulation Resistance: 1000 Megohms min.

#### Mechanical

Recommended Tightening Torque: 1.36Nm (12 in.-lb)

#### Physical

Housing: PBT, black  
Terminal: Brass  
Screw: Steel, #6-32, Phillips/Slot combo head  
Plating: Terminal Area—Nickel  
Screw—Zinc with clear chromate  
Wire Range: 14 to 22 AWG  
Operating Temperature: -40° to +110°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 38780-0102 | Yes       |
| 3        | 38780-0103 |           |
| 4        | 38780-0104 |           |
| 5        | 38780-0105 |           |
| 6        | 38780-0106 |           |
| 7        | 38780-0107 |           |
| 8        | 38780-0108 |           |
| 9        | 38780-0109 |           |
| 10       | 38780-0110 |           |
| 11       | 38780-0111 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 12       | 38780-0112 | Yes       |
| 13       | 38780-0113 |           |
| 14       | 38780-0114 |           |
| 15       | 38780-0115 |           |
| 16       | 38780-0116 |           |
| 17       | 38780-0117 |           |
| 18       | 38780-0118 |           |
| 19       | 38780-0119 |           |
| 20       | 38780-0120 |           |
| 21       | 38780-0121 |           |

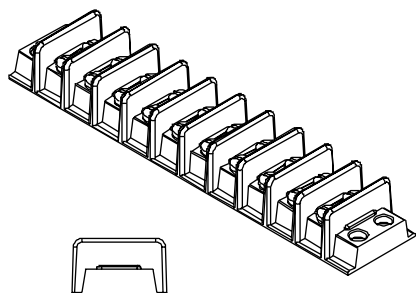
| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 22       | 38780-0122 | Yes       |
| 23       | 38780-0123 |           |
| 24       | 38780-0124 |           |
| 25       | 38780-0125 |           |
| 26       | 38780-0126 |           |
| 27       | 38780-0127 |           |
| 28       | 38780-0128 |           |
| 29       | 38980-1029 |           |
| 30       | 38780-0130 |           |

[www.molex.com/product/tse.html](http://www.molex.com/product/tse.html)

# 14.30mm (.563") Pitch Beau™ Barrier Terminal Strips Double Row

## 38221

### Panel Mount



#### Features and Benefits

- Robust and durable #8-32 screw allows maximum current for use with a 10 AWG wire
- High-temperature Phenolic insulator out performs many thermoplastic compounds

#### Reference Information

Packaging: Tray  
UL File No.: E48521  
Flammability: UL 94V-0  
Designed In: Inches

#### Electrical

Voltage: 600V  
Current: 30.0A  
Dielectric Withstanding Voltage: 2200V AC  
Insulation Resistance: 1000 Gigohms min.

#### Mechanical

Recommended Tightening Torque: 1.80Nm (16 in.-lb)

#### Physical

Housing: Phenolic  
Terminal: Brass  
Screw: Steel, #8-32, Phillips/Slot combo head  
Plating: Terminal Area—Tin  
Screw—Zinc with clear chromate  
Wire Range: 10 to 18 AWG  
Operating Temperature: -40 to +150°C

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 38221-0002 | Yes       |
| 3        | 38221-0003 |           |
| 4        | 38221-0004 |           |
| 5        | 38221-0005 |           |
| 6        | 38221-0006 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 7        | 38221-0007 | Yes       |
| 8        | 38221-0008 |           |
| 9        | 38221-0009 |           |
| 10       | 38221-0010 |           |
| 11       | 38221-0011 |           |

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 12       | 38221-0012 | Yes       |
| 13       | 38221-0013 |           |
| 14       | 38221-0014 |           |
| 15       | 38221-0015 |           |

# Barrier Terminal Strips Accessories

## Topside Hardware

- Topside hardware allows circuits to be jumped together or accommodate multiple connections per circuit
- Snap-on cover kits provide a cost-effective method for adding “touch safe” protection in the field
- Loose piece topside hardware enables the flexibility to design the exact part to fit virtually any application

### Physical

Topside Hardware—

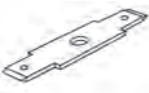
Material: Brass

Plating: Tin

Cover Kits—

Material: Cover—Vulcanized Fiber, black

Latches—Acetal, natural

| QUICK CONNECTS  |                    |  |  |  |  |  |  |           |
|-----------------|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
| Use with Series | Quick Connect Size | Order No.                                                                         |                                                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     | Lead-free |
| 38700           | 4.75mm (.187")     | 38002-1167                                                                        | 38002-1169                                                                        | 38002-1171                                                                        | 38002-1174                                                                         | 38002-1176                                                                          | 38002-1178                                                                          | Yes       |
| 38710           | 4.75mm (.187")     | 38002-0023                                                                        | 38002-0025                                                                        | 38002-0028                                                                        | 38002-0019                                                                         | 38002-0022                                                                          | 38002-0039                                                                          |           |
|                 | 6.35mm (.250")     |                                                                                   |                                                                                   |                                                                                   | 38002-0299                                                                         | 38002-0302                                                                          | 38002-0406                                                                          |           |
| 38720           | 4.75mm (.187")     | 38002-0023                                                                        | 38002-0025                                                                        | 38002-0028                                                                        | 38002-0019                                                                         | 38002-0022                                                                          | 38002-0039                                                                          |           |
|                 | 6.35mm (.250")     |                                                                                   |                                                                                   |                                                                                   | 38002-0299                                                                         | 38002-0302                                                                          | 38002-0406                                                                          |           |
| 38730           | 6.35mm (.250")     | 38002-1333                                                                        | 38002-1335                                                                        | 38002-1010                                                                        | 38002-1344                                                                         | 38002-1346                                                                          | 38002-1348                                                                          |           |
| 38740           | 6.35mm (.250")     | 38002-1333                                                                        | 38002-1335                                                                        | 38002-1010                                                                        | 38002-1344                                                                         | 38002-1346                                                                          | 38002-1348                                                                          |           |

| JUMPERS         |  |  |  |  |           |
|-----------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
| Use with Series | Order No.                                                                         |                                                                                   |                                                                                    |                                                                                     | Lead-free |
| 38700           |                                                                                   |                                                                                   | 38703-65XX*                                                                        |                                                                                     | Yes       |
| 38710           | 38002-0185                                                                        | 38002-0188                                                                        | Consult Factory                                                                    |                                                                                     |           |
| 38720           | 38002-1226                                                                        | 38002-1228                                                                        | Consult Factory                                                                    |                                                                                     |           |
| 38730           | 38002-1350                                                                        | 38002-1352                                                                        |                                                                                    | 38002-1478                                                                          |           |
| 38740           | 38002-0331                                                                        | 38002-0333                                                                        |                                                                                    | 38002-1478                                                                          |           |

\*XX represents circuit sizes 02, 03, 04, 05, 06, 08, 10, 16.

| SOLDER TABS     |  |  |           |
|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------|
| Use with Series | Order No.                                                                           |                                                                                     | Lead-free |
| 38700           | 38002-1165                                                                          |                                                                                     | Yes       |
| 38710           | 38002-0017                                                                          | 38002-0020                                                                          |           |
| 38720           | 38002-0017                                                                          | 38002-0020                                                                          |           |
| 38740           | 38002-0064                                                                          | 38002-0066                                                                          |           |

## Snap-On Cover Kits

| Use with Series | Order No.   | Cover Width     | Lead-free |
|-----------------|-------------|-----------------|-----------|
| 38710           | 38713-64XX* | 16.00mm (.630") | Yes       |
| 38720           |             |                 |           |
| 38740           | 38733-64XX* | 17.53mm (.690") |           |

\*XX represents circuit sizes 02 to 30.

‡Each kit contains 2 latches and a flat cover.

Commercial Micro-D ..... F-2 to F-7

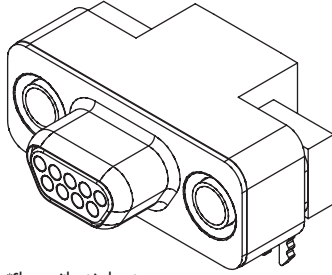
Industrial RJ-45 (Ethernet) ..... F-8 to F-12

Industrial USB ..... F-13 to F-15

# 1.27mm (.050") Pitch Commercial Micro-D Plug

## 83611/83612/83614

### Right Angle



\*Shown without jackposts

#### Features and Benefits

- Economical solution for commercial applications requiring the density of a microminiature connector
- Rugged commercial design with a metal interface and grounding tabs for improved mechanical and electrical shield conditions
- Designed to meet the requirements of SSA applications

#### Reference Information

UL File No: E34763  
 Mates With: 83421, 83422, 83424  
 Designed In: Inches  
 Packaging: Tube  
 PCB Thickness: 1.60mm (.062")  
 Lead Free Process Capability: Wave/Surface Mount  
 Compatible  
 RoHS Compliant

#### Electrical

Current: 1.0A  
 Contact Resistance: 8 milliohms max.

#### Mechanical

Contact Insertion Force: 3 oz. average  
 Unmating Force: 0.5 oz. min.

#### Physical

Housing: Shell—Nickel-plated 1008LC Steel  
 Insulator—LCP, UL 94V-0  
 Contact: Pin—Gold-plated Beryllium Copper  
 Jackpost: Stainless Steel  
 Temperature: -55 to +125°C

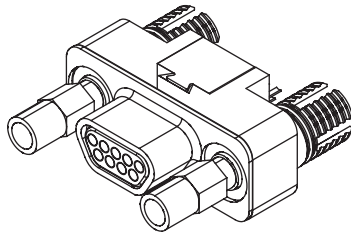
| Circuits | Order No.      |                    | Lead-free |
|----------|----------------|--------------------|-----------|
|          | With Jackposts | Without Jackposts* |           |
| 9        | 83611-9006     | 83611-9016         | Yes       |
| 15       | 83612-9020     | 83612-9022         |           |
| 25       | 83614-9012     | 83614-9014         |           |

\*Jackpost can be ordered separately. Use part number 83041-0005.

# 1.27mm (.050") Pitch Commercial Micro-D Plug

## 83611/83612/83614

### Vertical



\*Shown with optional jackposts

#### Features and Benefits

- Economical solution for commercial applications requiring the density of a microminiature connector
- Rugged commercial design with a metal interface and grounding tabs for improved mechanical and electrical shield condition
- Designed to meet the requirements of SSA applications

#### Reference Information

UL File No: E34763  
 Mates With: 83421, 83422, 83424  
 Designed In: Inches  
 Packaging: Tube  
 PCB Thickness: 1.60mm (.062")  
 Lead Free Process Capability: Wave/Surface Mount  
 Compatible  
 RoHS Compliant

#### Electrical

Current: 1.0A  
 Contact Resistance: 8 milliohms max.

#### Mechanical

Contact Insertion Force: 3 oz. average  
 Unmating Force: 0.5 oz. min.

#### Physical

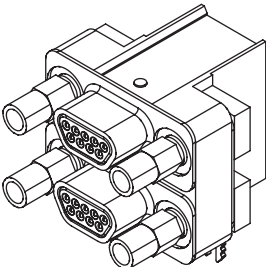
Housing: Shell—Nickel-plated 1008LC Steel  
 Insulator—LCP, UL 94V-0  
 Contact: Pin—Gold-plated Beryllium Copper  
 Jackpost: Stainless Steel  
 Temperature: -55 to +125°C

| Circuits | Order No.      |                    | Lead-free |
|----------|----------------|--------------------|-----------|
|          | With Jackposts | Without Jackposts* |           |
| 9        | 83611-9023     | 83611-9206         | Yes       |
| 15       | 83612-9024     | 83612-9205         |           |
| 25       | 83614-9016     | 83614-9202         |           |

\*Jackpost can be ordered separately. Use part number 83041-0005.

# 1.27mm (.050") Pitch Commercial Micro-D Plug

83619  
Right Angle, Dual Stack



\*Shown with optional jackposts.

## Features and Benefits

- Economical solution for commercial applications requiring the density of a microminiature connector
- Rugged commercial design with a metal interface and grounding tabs for improved mechanical and electrical shield conditions
- Designed to meet the requirements of SSA applications

## Reference Information

UL File No: E34763  
Mates With: 83421, 83422, 83424  
Designed In: Inches  
Packaging: Tube  
PCB Thickness: 1.60mm (.062")  
Lead Free Process Capability: Wave/Surface Mount  
Compatible  
RoHS Compliant

## Electrical

Current: 1.0A  
Contact Resistance: 8 milliohms max.

## Mechanical

Contact Insertion Force: 3 oz. average  
Unmating Force: 0.5 oz. min.

## Physical

Housing: Shell—Nickel-plated 1008LC Steel  
Insulator—LCP, UL 94V-0  
Contact: Pin—Gold-plated Beryllium Copper  
Jackpost: Stainless Steel  
Temperature: -55 to +125°C

| Circuits | Order No.      |                    | Lead-free |
|----------|----------------|--------------------|-----------|
|          | With Jackposts | Without Jackposts* |           |
| 18       | 83619-9003     | 83619-9200         | Yes       |
| 30       | 83619-9010     | 83619-9201         |           |
| 50       | 83619-9011     | 83619-9202         |           |

\*Jackpost can be ordered separately. Use part number 83041-0005.

# 1.27mm (.050") Pitch Commercial Micro-D Cable Receptacle

83421/83422/83424

Kit

## Features and Benefits

- Economical solution for commercial applications requiring the density of a microminiature connector
- Crimp and poke configuration designed for hand or semiautomatic crimping
- Designed to meet the requirements of SSA applications.

## Reference Information

Packaging: Box/Reel  
UL File No: E34763  
Designed In: Inches  
Mates With: 83611, 83612, 83614, 83619  
RoHS Compliant

## Electrical

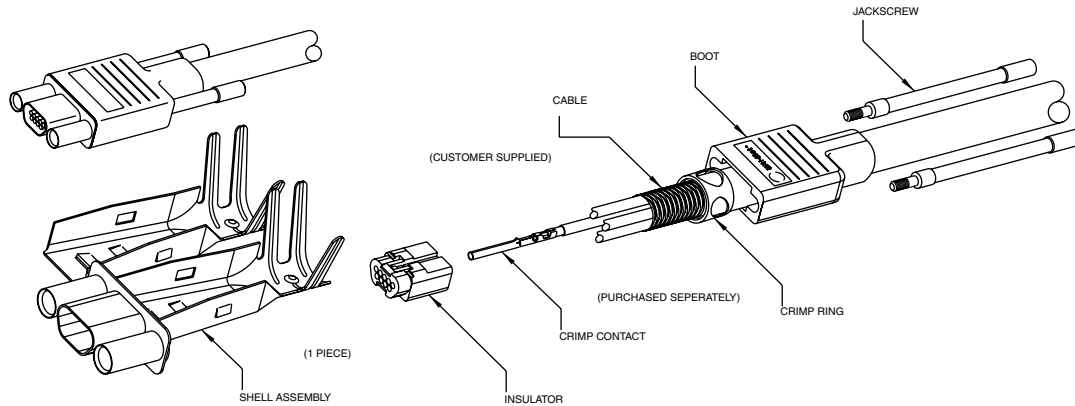
Current: 1.0A  
Contact Resistance: 8 milliohms max.

## Mechanical

Contact Insertion Force: 3 oz. average  
Unmating Force: 0.5 oz. min.

## Physical

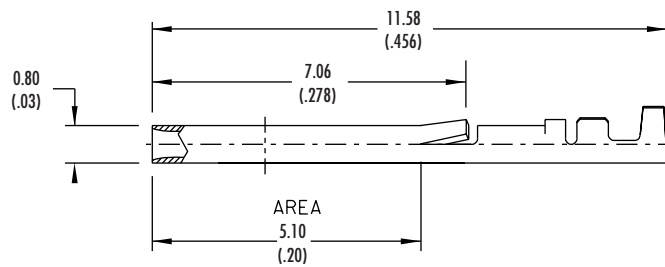
Housing: Shell—Nickel-plated 1008LC Steel  
Insulator—LCP, UL 94V-0  
Contact: Socket—Gold-plated Copper Alloy  
Boot: Santoprene  
Jackscrew: Stainless Steel



| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 9        | 83421-9014 | Yes       |
| 15       | 83422-9014 |           |
| 25       | 83424-9014 |           |

## Socket Terminals

83000\*

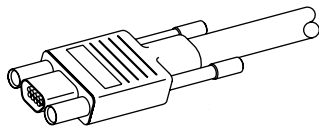


| Description       | Order No.  | Lead-free |
|-------------------|------------|-----------|
| 2,500 Piece Reel  | 83000-9502 | Yes       |
| 50,000 Piece Reel | 83000-9503 |           |
| Loose             | 83000-0083 |           |

\*Use with 83421/83422/83424

# 1.27mm (.050") Pitch Commercial Micro-D Cable Receptacle

**83421/83422/83424**  
Assembled



## Features and Benefits

- Economical solution for commercial applications requiring the density of a microminiature connector
- Rugged commercial design with a metal interface and grounding tabs for improved mechanical and electrical shield conditions
- Designed to meet the requirements of SSA applications

## Reference Information

UL File No: E34763  
Mates With: 83611, 83612, 83614, 83619  
RoHS Compliant

## Electrical

Current: 1.0A  
Contact Resistance: 8 milliohms max.

## Mechanical

Contact Insertion Force: 3 oz. average  
Unmating Force: 0.5 oz. min.

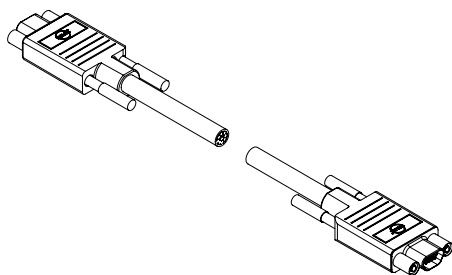
## Physical

Housing: Shell—Nickel-plated 1008LC Steel  
Insulator—LCP, UL 94V-0  
Contact: Pin—Gold-plated Beryllium Copper  
Boot: Santoprene  
Jackpost: Stainless Steel  
Cable: 28 AWG, PVC Jacket—Shielded -85°C, 300V UL 2464  
Temperature: -55 to +125°C

| Circuits | Order No.     |              |              | Lead-free |
|----------|---------------|--------------|--------------|-----------|
|          | Length        |              |              |           |
|          | 0.46m (1.50') | 0.91m (3.0') | 1.83m (6.0') |           |
| 9        | 83421-9042    | 83421-9043   | 83421-9044   | Yes       |
| 15       | 83422-9007    | 83422-9013   | 83422-9018   |           |
| 25       | 83424-9019    | 83424-9020   | 83424-9021   |           |

# 1.27mm (.050") Pitch Commercial Micro-D Cable Assembly

**83421/83422/83424**  
Commercial Micro-D  
to Commercial Micro-D



## Features and Benefits

- Economical solution for commercial applications requiring the density of a microminiature connector
- Rugged commercial design with a metal interface and grounding tabs for improved mechanical and electrical shield conditions

## Reference Information

Packaging: Bag  
UL File No.: E34763  
Mates With: 83611, 83612, 83614 and 83619  
Designed In: Inches

## Electrical

Current: 1.0A  
Contact Resistance: 8 milliohms

## Mechanical

Contact Insertion Force: 3 oz average  
Unmating Force: 0.5 oz min.

## Physical

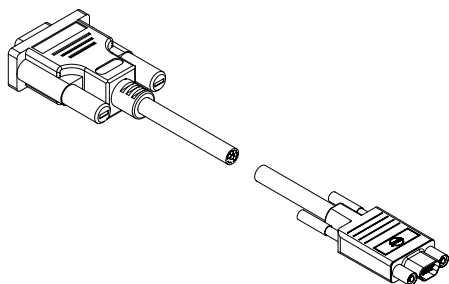
Housing: Shell—Steel  
Insulator—LCP, UL 94V-0  
Contact: Pin—Beryllium Copper  
Plating: Shell—Nickel  
Contact Area—Gold  
Cable: 28 AWG, PVC Jacket—Shielded 85°, 300V UL 2464  
Jackposts: Stainless Steel  
Operating Temperature: -55 to +125°C

| Circuits | Order No.     |               |               | Lead-free |
|----------|---------------|---------------|---------------|-----------|
|          | Length        |               |               |           |
|          | 0.46m (1.50') | 0.91m (3.00') | 1.83m (6.00') |           |
| 9        | 83421-9049    | 83421-9050    | 83421-9051    | Yes       |
| 15       | 83422-9053    | 83422-9054    | 83422-9055    |           |
| 25       | 83424-9057    | 83424-9058    | 83424-9059    |           |

# 1.27mm (.050") Pitch Commercial Micro-D Cable Assembly

**83421 / 83422 / 83424**

**Commercial Micro-D to  
D-Subminiature Socket**



## Features and Benefits

- Economical solution for commercial applications requiring the density of a microminiature connector
- Rugged commercial design with a metal interface and grounding tabs for improved mechanical and electrical shield conditions

## Reference Information

Packaging: Bag  
UL File No.: E34763  
Mates With: 83611, 83612, 83614 and 83619  
Designed In: Inches

## Electrical

Current: 1.0A  
Contact Resistance: 8 milliohms

## Mechanical

Contact Insertion Force: 3 oz average  
Unmating Force: 0.5 oz min.

## Physical

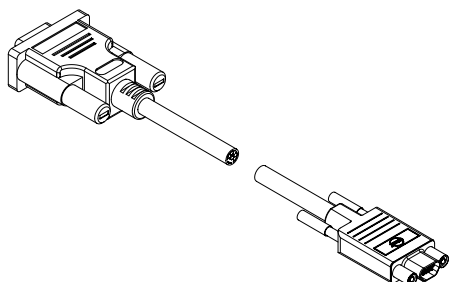
Housing: Shell—Steel  
Insulator—LCP, UL 94V-0  
Contact: Socket—Beryllium Copper  
Plating: Shell—Nickel  
Contact Area—Gold  
Cable: 28 AWG, PVC Jacket—Shielded 85°, 300V UL 2464  
Jackposts: Stainless Steel  
Operating Temperature: -55 to +125°C

| Circuits | Order No.     |               |               | Lead-free |
|----------|---------------|---------------|---------------|-----------|
|          | Length        |               |               |           |
|          | 0.46m (1.50') | 0.91m (3.00') | 1.83m (6.00') |           |
| 9        | 83421-9039    | 83421-9040    | 83421-9041    | Yes       |
| 15       | 83422-9056    | 83422-9057    | 83422-9058    |           |
| 25       | 83424-9063    | 83424-9064    | 83424-9065    |           |

# 1.27mm (.050") Pitch Commercial Micro-D Cable Assembly

**83421 / 83422 / 83424**

**Commercial Micro-D to  
D-Subminiature Pin**



## Features and Benefits

- Economical solution for commercial applications requiring the density of a microminiature connector
- Rugged commercial design with a metal interface and grounding tabs for improved mechanical and electrical shield conditions

## Reference Information

Packaging: Bag  
UL File No.: E34763  
Mates With: 83611, 83612, 83614 and 83619  
Designed In: Inches

## Electrical

Current: 1.0A  
Contact Resistance: 8 milliohms

## Mechanical

Contact Insertion Force: 3 oz average  
Unmating Force: 0.5 oz min.

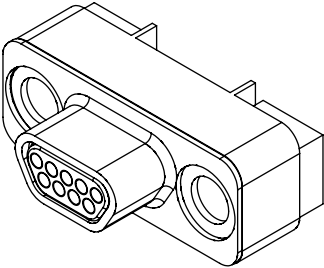
## Physical

Housing: Shell—Steel  
Insulator—LCP, UL 94V-0  
Contact: Socket—Beryllium Copper  
Plating: Shell—Nickel  
Contact Area—Gold  
Cable: 28 AWG, PVC Jacket—Shielded 85°, 300V UL 2464  
Jackposts: Stainless Steel  
Operating Temperature: -55 to +125°C

| Circuits | Order No.     |               |               | Lead-free |
|----------|---------------|---------------|---------------|-----------|
|          | Length        |               |               |           |
|          | 0.46m (1.50') | 0.91m (3.00') | 1.83m (6.00') |           |
| 9        | 83421-9039    | 83421-9037    | 83421-9038    | Yes       |
| 15       | 83422-9059    | 83422-9060    | 83422-9061    |           |
| 25       | 83424-9060    | 83424-9061    | 83424-9062    |           |

# 1.27mm (.050") Pitch Commercial Micro-D Panel Mount Header

83411/83414



| Circuits | Order No.     | Lead-free |
|----------|---------------|-----------|
| 9        | 83411-9110    | Yes       |
| 15       | Contact Molex |           |
| 25       | 83414-9021    |           |

Jackposts need to be ordered separately. Use order number: 83041-0005

## Features and Benefits

- Economical solution for commercial applications requiring the density of a microminiature connector
- Crimp and poke configuration designed for hand or semi automatic crimping

## Reference Information

Packaging: Tube  
UL File No.: E34763  
Mates With: 83421, 83422 and 83424  
Designed In: Inches

## Electrical

Current: 1.0A  
Contact Resistance: 8 milliohms

## Mechanical

Contact Insertion Force: 3 oz average  
Unmating Force: 0.50 oz min.

## Physical

Housing: Shell—Steel  
Insulator—LCP, UL 94V-0  
Contact: Socket—Copper Alloy  
Plating: Shell—Nickel  
Contact—Gold  
Operating Temperature: -55 to +125°C

# Pin Terminals

83000

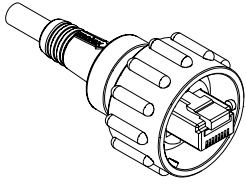


| Description       | Order No.  |            |
|-------------------|------------|------------|
|                   | 15µ Gold   | 50µ Gold   |
| 2,500 Piece Reel  | 83000-9561 | 83000-9558 |
| 50,000 Piece Reel | 83000-9562 | 83000-9559 |
| Loose             | 83000-9560 | 83000-0110 |

# Ethernet Sealed RJ-45 Overmolded Cordsets

## 84702

### Single Ended Bayonet Style RJ-45 Plug



#### Features and Benefits

- One sealing surface reduces chance of failure
- IP67 and NEMA 6P ratings ensure cable assemblies for water and dust tight functional integrity
- Bayonet style latching provides audible and tactile confirmation of positive mating
- Category 5e specified provides high data transmission speeds
- Overmolded cable assemblies allow for faster installation

#### Reference Information

Packaging: Bag  
Mates With: 84700 and 84702  
Designed In: Inches

#### Electrical

Voltage: 150V AC  
Current: 1.5A  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage:  
Adjacent Contacts—1000V AC  
Contacts to Ground—1500V AC  
Insulation Resistance: 500 Megohms min.  
Type: Category 5e  
Transmission Performance: Category 5e  
RJ-45 Connection Interface: TIA/EIA-568-B  
Shielding Effectiveness: 20 dB min.

#### Mechanical

Durability: 200 mating cycles min.  
Coupling Ring Destructive Torque: 2.26Nm (20 in. lb) or more

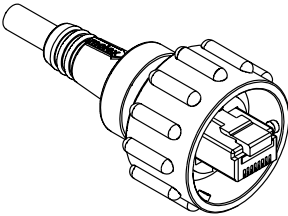
#### Physical

Overmolded Body: PVC, black  
Coupling Ring: PBT, black  
Holder: PBT, black  
Wedge: PBT, black  
Gasket Seal: Nitrile, black  
Contact: Phosphor Bronze  
Plating: Contact Area—1.27  $\mu$ m (50  $\mu$ in) Gold  
Underplating—Nickel  
Operating Temperature: -40 to +85°C

| Length           | Order No.  | Lead-free |
|------------------|------------|-----------|
| 0.30m (1.00')    | 84702-3001 | Yes       |
| 0.91m (3.00')    | 84702-3003 |           |
| 1.83m (6.00')    | 84702-3006 |           |
| 2.74m (9.000')   | 84702-3009 |           |
| 3.66m (12.00')   | 84702-3012 |           |
| 6.10m (20.00')   | 84702-3020 |           |
| 15.20m (50.00')  | 84702-3050 |           |
| 30.50m (100.00') | 84702-3100 |           |

# Ethernet Sealed RJ-45 Overmolded Cordsets

## 84702 Double Ended Bayonet Style RJ-45 Plug-to-Bayonet Style RJ-45 Plug



| Length         | Order No.  | Lead-free |
|----------------|------------|-----------|
| 0.30m (1.00')  | 84702-1001 | Yes       |
| 0.91m (3.00')  | 84702-1003 |           |
| 1.83m (6.00')  | 84702-1006 |           |
| 2.13m (7.00')  | 84702-1007 |           |
| 2.74m (9.000') | 84702-1009 |           |
| 3.00m (10.00') | 84702-1010 |           |
| 3.66m (12.00') | 84702-1012 |           |
| 4.57m (15.00') | 84702-1015 |           |
| 6.10m (20.00') | 84702-1020 |           |
| 6.40m (21.00') | 84702-1021 |           |
| 9.14m (30.00') | 84702-1030 |           |

### Features and Benefits

- One sealing surface reduces chance of failure
- IP67 and NEMA 6P ratings ensure cable assemblies are water and dust tight for functional integrity
- Bayonet style latching provides audible and tactile confirmation of positive mating
- Category 5e specified provides high data transmission speeds
- Overmolded cable assemblies allow for faster installation

### Reference Information

Packaging: Bag  
Mates With: 84700 and 84702  
Designed In: Inches

### Electrical

Voltage: 150V AC  
Current: 1.5A  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage:  
    Adjacent Contacts—1000V AC  
    Contacts to Ground—1500V AC  
Insulation Resistance: 500 Megohms min.  
Transmission Performance: Category 5e  
RJ-45 Connection Interface: TIA/EIA-568-B  
Shielding Effectiveness: 20 dB min.

### Mechanical

Durability: 200 mating cycles min.  
Coupling Ring Destructive Torque: 2.26Nm (20 in. lb) or more

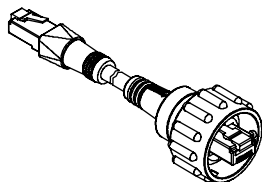
### Physical

Overmolded Body: PVC, black  
Coupling Ring: PBT, black  
Holder: PBT, black  
Wedge: PBT, black  
Gasket Seal: Nitrile, black  
Contact: Phosphor Bronze  
Plating: Contact Area—1.27µm (50µ") Gold  
    Underplating—Nickel  
Operating Temperature: -40 to +85°C

# Ethernet Sealed RJ-45 Overmolded Cordsets

## 84702

### Double Ended Bayonet Style RJ-45 Plug-to-Standard RJ-45 Plug



#### Features and Benefits

- One sealing surface reduces chance of failure
- IP67 and NEMA 6P ratings ensure cable assemblies are water and dust tight for functional integrity
- Bayonet style latching provides audible and tactile confirmation of positive mating
- Category 5e specified provides high data transmission speeds
- Overmolded cable assemblies allow for faster installation

#### Reference Information

Packaging: Bag  
Mates With: 84700 and 84702  
Designed In: Inches

#### Electrical

Voltage: 150V AC  
Current: 1.5A  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage:  
Adjacent Contacts—1000V AC  
Contacts to Ground—1500V AC  
Insulation Resistance: 500 Megohms min.  
Transmission Performance: Category 5e  
RJ-45 Connection Interface: TIA/EIA-568-B  
Shielding Effectiveness: 20 dB min.

#### Mechanical

Durability: 200 mating cycles min.  
Coupling Ring Destructive Torque: 2.26Nm (20 in. lb) or more

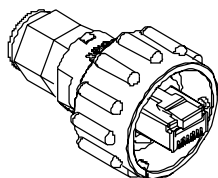
#### Physical

Overmolded Body: PVC, black  
Coupling Ring: PBT, black  
Holder: PBT, black  
Wedge: PBT, black  
Gasket Seal: Nitrile, black  
Contact: Phosphor Bronze  
Plating: Contact Area—1.27µm (50µ") Gold  
Underplating—Nickel  
Operating Temperature: -40 to +85°C

| Length         | Order No.  | Lead-free |
|----------------|------------|-----------|
| 0.30m (1.00')  | 84702-2001 | Yes       |
| 0.91m (3.00')  | 84702-2003 |           |
| 1.83m (6.00')  | 84702-2006 |           |
| 2.13m (7.00')  | 84702-2007 |           |
| 2.74m (9.00')  | 84702-2009 |           |
| 3.00m (10.00') | 84702-2010 |           |
| 3.66m (12.00') | 84702-2012 |           |
| 4.57m (15.00') | 84702-2015 |           |
| 6.10m (20.00') | 84702-2020 |           |
| 6.40m (21.00') | 84702-2021 |           |
| 9.14m (30.00') | 84702-2030 |           |

# RJ-45 Field Wireable Ethernet Connectors

## 84700



#### Features and Benefits

- One sealing surface reduces chance of failure
- IP67 and NEMA 6P ratings ensure cable assemblies are water and dust tight for functional integrity
- Bayonet style latching provides audible and tactile confirmation of positive mating
- Superior strain relief
- Easy termination allows custom length cable to be made in the field
- Compatible with shielded and unshielded cable
- Meets ODVA/EtherNet™ IP\* specification

#### Reference Information

Packaging: Bag  
Mates With: 84700 and 84702  
Designed In: Inches  
Waterproof: Meets requirements of IP67 and NEMA 6P for water tightness

#### Electrical

Voltage: 56.5V DC  
150V RMS AC (ringing voltage only)  
Current: 1.5A at 25°C (77°F)  
Contact Resistance: 20 milliohms max.  
Insulation Resistance: 500 Megohms min.  
Transmission Performance: Category 5e  
RJ-45 Connection Interface: TIA/EIA-568-B  
Shielding Effectiveness: 20 dB min.

#### Mechanical

Durability: 500 mating cycles min.

#### Physical

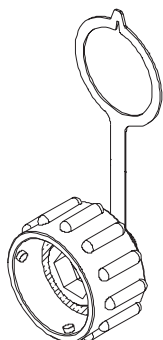
Coupling Ring: PBT, black  
O-Ring: Nitrile  
Gasket Seal: Nitrile, black  
Plug Holder: PBT, black  
Retainer Wedge: PBT, black  
Wire Gauge: 24 AWG (stranded or solid conductors)  
Operating Temperature: -40 to +85°C  
Cable Seal Assembly: Polyamide, TPE Gland, black

| Description           | Order No.  | Lead-free |
|-----------------------|------------|-----------|
| Field Attachable Plug | 84700-0002 | Yes       |

\*EtherNet IP is a trademark of the Open DeviceNet Vendor Association.

## Bayonet Style Tethered Dust Cap

84700



### Features and Benefits

- One sealing surface means less likelihood of failure
- Attachable tether so cap never gets lost
- Maintains IP67 and NEMA 6P ratings for functional integrity when connector is not mated
- IP67 and NEMA 6P ratings ensure cable assemblies are water and dust tight for functional integrity

### Reference Information

Packaging: Bag  
Use With: 84700, 84702, 84729, 84730  
Designed In: Inches

### Physical

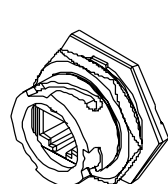
Dust Cap: PBT, black  
Tether: PE or PP, black  
Gasket Seal: Nitrile, black  
Screw: Brass, #8-32  
Plating: Screw—Nickel  
Operating Temperature: -40 to +85°C

| Description | Order No.  | Lead-free |
|-------------|------------|-----------|
| Dust Cover  | 84700-0003 | Yes       |

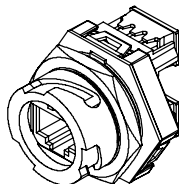
## Ethernet Sealed RJ-45 Receptacles

84702

PCB Mount and  
Punchdown Panel Mount



PCB Mount



Punchdown Panel Mount

### Features and Benefits

- One sealing surface reduces chance of failure
- Bayonet style latching provides audible and tactile confirmation of positive mating
- Punchdown version supports simple IDC termination

### Reference Information

Packaging: Bag  
Mates With: 84700 and 84702  
Designed In: Inches

### Electrical

Voltage: 150V AC  
Current: 1.5A  
Contact Resistance: 20 milliohms max.  
Dielectric Withstanding Voltage:  
Adjacent Contacts—1000V AC  
Contacts to Ground—1500V AC  
Insulation Resistance: 500 Megohms min.  
Transmission Performance: Category 5e  
RJ-45 Connection Interface: TIA/EIA-568-B  
Shielding Effectiveness: 20 dB min.

### Mechanical

Durability: 200 mating cycles min.  
Lock Nut Destructive Torque: 2.71Nm (24 in. lb)

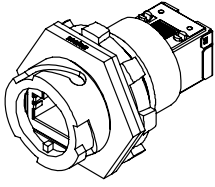
### Physical

Receptacle Housing: PBT, black  
Lock Nut: Polyamide 6/6, black  
Panel Gasket: Neoprene, black  
Punchdown Block: Thermoplastic, white  
Wire Range (Punchdown Receptacle):  
22 to 26 AWG solid and stranded, limiting outside diameter 1.40mm (.055")  
Operating Temperature: -40 to +85°C

| Description                      | Order No.  | Lead-free |
|----------------------------------|------------|-----------|
| PCB Mount Receptacle             | 84702-0005 | Yes       |
| Punchdown Panel Mount Receptacle | 84702-0006 |           |

# Ethernet Sealed RJ-45 Panel Mount Bulkhead Passthrough Receptacle

## 84700



### Features and Benefits

- Back-to-back RJ-45 passthrough brings ethernet connectivity into a control cabinet and eliminates need for conduit entry
- Bayonet style latching provides audible and tactile confirmation of positive mating
- Meets ODVA/EtherNet™ IP specification

### Reference Information

Packaging: Bag  
Designed in: Inches  
Mates With: 84700 and 84702  
Waterproof: Meets requirements of IP67 and NEMA 6P for water tightness

### Electrical

Voltage: 150V AC  
Current: 1.5A  
Contact Resistance: 20 milliohms max.  
Insulation Resistance: 500 Megohms min.  
Transmission Performance: Category 5e  
RJ-45 Connection Interface: TIA/EIA-568-B  
Shielding Effectiveness: 20 dB min.  
Return Loss: 5 dB at 100MHz

### Mechanical

Durability: 500 mating cycles min.

### Physical

Receptacle Housing: PBT, black  
Panel Gasket: Neoprene, black  
Lock Nut: Steel  
Plating: Lock Nut—Zinc  
Operating Temperature: -40 to +85°C

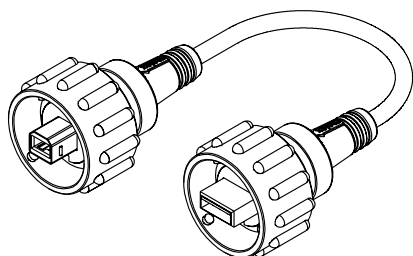
| Description            | Order No.  | Lead-free |
|------------------------|------------|-----------|
| Panel Mount Receptacle | 84700-0001 | Yes       |

\*EtherNet IP and DeviceNet are trademarks of the Open DeviceNet Vendor Association.

## Industrial USB Shielded Overmolded Cordset

### 84732

### Double Ended Bayonet Style Type-A Plug to Bayonet Style Type-B Plug



| Length        | Order No.  | Lead-free |
|---------------|------------|-----------|
| 0.80m (2.62') | 84732-0001 | Yes       |
| 1.50m (4.92') | 84732-0002 |           |
| 2.0m (6.56')  | 84732-0003 |           |
| 3.0m (9.84')  | 84732-0004 |           |
| 5.0m (16.40') | 84732-0005 |           |

#### Features and Benefits

- Standard USB shielded I/O system in a rugged, industrial sealed package
- Fully shielded for EMI/RFI protection
- IP67 and NEMA 6P rated cable assemblies are water and dust tight for functional integrity
- Bayonet style latching provides audible and tactile confirmation of positive mating

#### Reference Information

Packaging: Bag  
Mates With: 84729 and 84730  
Designed In: Inches  
Flammability: UL 94V-0  
Performance: USB 2.0

#### Electrical

Voltage: 30V  
Current: 1.0A  
Contact Resistance: 30 milliohms max.  
Dielectric Withstanding Voltage: 750V AC  
Insulation Resistance: 1000 Megohms min.

#### Mechanical

Mating Force: 35N (7.87 lb) max.  
Withdrawal Force: 10N (2.25 lb) min.  
Durability: 1000 mating cycles

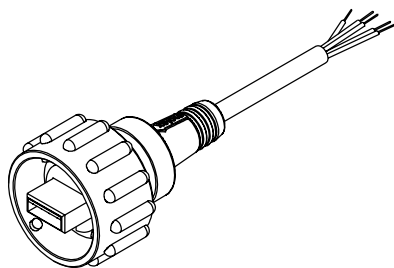
#### Physical

Overmolding: PVC, black  
Coupling Ring: Polyester, black  
Contact: Copper Alloy  
Plating: Contact Area—0.75 $\mu$ m (30 $\mu$ in) Gold  
Underplating—Nickel  
Gasket Seal: Nitrile, black  
Operating Temperature: 0 to +70°C

## Industrial USB Shielded Overmolded Cordset

### 84727

### Bayonet Style Type-A Plug to Shielded Pigtail



| Length        | Order No.  | Lead-free |
|---------------|------------|-----------|
| 0.15m (.49')  | 84727-1005 | Yes       |
| 1.50m (4.92') | 84727-1002 |           |
| 2.0m (6.56')  | 84727-1001 |           |
| 3.0m (9.84')  | 84727-1003 |           |
| 5.0m (16.40') | 84727-1004 |           |

#### Features and Benefits

- Standard USB shielded I/O system in a rugged, industrial sealed package
- Fully shielded for EMI/RFI protection
- IP67 and NEMA 6P rated cable assemblies are water and dust tight for functional integrity
- Bayonet style latching provides audible and tactile confirmation of positive mating
- Compliance with USB 2.0 specification

#### Reference Information

Packaging: Bag  
Mates With: 84729  
Designed In: Inches  
Flammability: UL 94V-0  
Performance: USB 2.0

#### Electrical

Voltage: 30V  
Current: 1.0A  
Contact Resistance: 30 milliohms max.  
Dielectric Withstanding Voltage: 750V AC  
Insulation Resistance: 1000 Megohms min.

#### Mechanical

Mating Force: 35N (7.87 lb) max.  
Withdrawal Force: 10N (2.25 lb) min.  
Durability: 1000 mating cycles

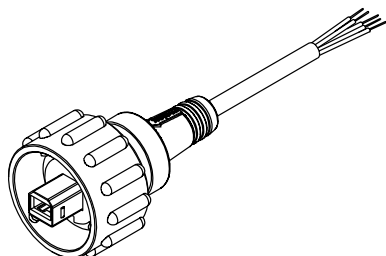
#### Physical

Overmolding: PVC, black  
Coupling Ring: Polyester, black  
Contact: Copper Alloy  
Plating: Contact Area—0.75 $\mu$ m (30 $\mu$ in) Gold  
Underplating—Nickel  
Gasket Seal: Nitrile, black  
Operating Temperature: 0 to +70°C

## Industrial USB Shielded Overmolded Cordset

**84728**

### Bayonet Style Type-B Plug to Shielded Pigtail



| Length        | Order No.  | Lead-free |
|---------------|------------|-----------|
| 0.15m (.49')  | 84728-1005 | Yes       |
| 1.50m (4.92') | 84728-1002 |           |
| 2.0m (6.56')  | 84728-1001 |           |
| 3.0m (9.84')  | 84728-1003 |           |
| 5.0m (16.40') | 84728-1004 |           |

#### Features and Benefits

- Standard USB shielded I/O system in a rugged, industrial sealed package
- Fully shielded for EMI/RFI protection
- IP67 and NEMA 6P rated cable assemblies are water and dust tight for functional integrity
- Bayonet style latching provides audible and tactile confirmation of positive mating
- Compliance with USB 2.0 specification

#### Reference Information

Packaging: Bag  
 Mates with: 84730  
 Designed In: Inches  
 Flammability: UL 94V-0  
 Performance: USB 2.0

#### Electrical

Voltage: 30V  
 Current: 1.0A  
 Contact Resistance: 30 milliohms max.  
 Dielectric Withstanding Voltage: 750V AC  
 Insulation Resistance: 1000 Megohms min.

#### Mechanical

Mating Force: 35N (7.87 lb) max.  
 Withdrawal Force: 10N (2.25 lb) min.  
 Durability: 1000 mating cycles

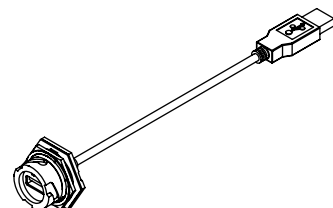
#### Physical

Overmolding: PVC, black  
 Coupling Ring: Polyester, black  
 Contact: Copper Alloy  
 Plating: Contact Area—0.75 $\mu$ m (30 $\mu$ in) Gold  
 Underplating—Nickel  
 Gasket Seal: Nitrile, black  
 Operating Temperature: 0 to +70°C

## Industrial USB Shielded Overmolded Cordset

**84729**

### Type-A Sealed Panel Mount Receptacle to Standard Type-A Plug



| Length         | Order No.  | Lead-free |
|----------------|------------|-----------|
| 0.152m (.498') | 84729-0003 | Yes       |
| 0.8m (2.62')   | 84729-0004 |           |
| 1.50m (4.92')  | 84729-0005 |           |
| 2.0m (6.56')   | 84729-0006 |           |
| 3.0m (9.84')   | 84729-0007 |           |
| 5.0m (16.40')  | 84729-0008 |           |

#### Features and Benefits

- Standard USB shielded I/O system in a rugged, industrial sealed package
- Fully shielded for EMI/RFI protection
- IP67 and NEMA 6P rated cable assemblies are water and dust tight for functional integrity
- Bayonet style latching provides audible and tactile confirmation of positive mating
- Compliance with USB 2.0 specification

#### Reference Information

Packaging: Bag  
 Mates With: 84727 and 84732  
 Designed In: Inches  
 Flammability: UL 94V-0  
 Performance: USB 2.0

#### Electrical

Voltage: 30V  
 Current: 1.0A  
 Contact Resistance: 30 milliohms max.  
 Dielectric Withstanding Voltage: 750V AC  
 Insulation Resistance: 1000 Megohms min.

#### Mechanical

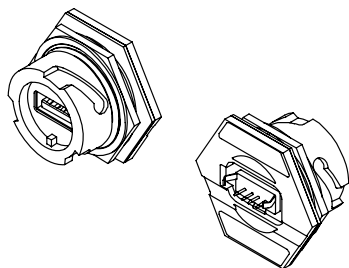
Lock Nut Destructive Torque: 2.71Nm (24 in. lb) or more  
 Mating Force: 35N (7.87 lb) max.  
 Withdrawal Force: 10N (2.25 lb) min.  
 Durability: 1000 mating cycles

#### Physical

Overmolding: PVC, black  
 Receptacle Housing: PBT, black  
 Lock Nut: PBT, black  
 Contact: Copper Alloy  
 Plating: Contact Area—0.75 $\mu$ m (30 $\mu$ in) Gold  
 Underplating—Nickel  
 Panel Gasket: Neoprene, black  
 Operating Temperature: 0 to +70°C

## Industrial USB Panel Mount PCB Receptacle

84729/84730



### Features and Benefits

- Standard USB shielded I/O system in a rugged, industrial sealed package
- Fully shielded for EMI/RFI protection
- IP67 and NEMA 6P rated cable assemblies are water and dust tight for functional integrity
- Bayonet style latching provides audible and tactile confirmation of positive mating
- Compliance with USB 2.0 specification ensures compatibility with standard USB cables

### Reference Information

Packaging: Bag  
 Mates With: Type A—84727 and 84732  
 Type B—84728 and 84732  
 Designed In: Inches  
 Flammability: UL 94V-0  
 Performance: USB 2.0

### Electrical

Voltage: 30V  
 Current: 1.0A  
 Contact Resistance: 30 milliohms max.  
 Dielectric Withstanding Voltage: 750V AC  
 Insulation Resistance: 1000 Megohms min.

### Mechanical

Lock Nut Destructive Torque: 2.71Nm (24 in. lb) or more  
 Mating Force: 35N (7.87 lb) max.  
 Withdrawal Force: 10N (2.25 lb) min.  
 Durability: 1000 mating cycles

### Physical

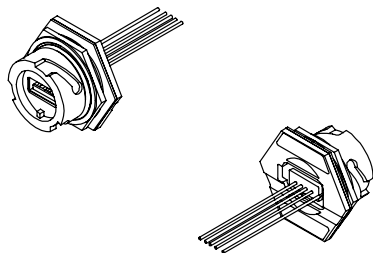
Receptacle Housing: PBT, black  
 Lock Nut: Polyamide 6/6, black  
 Contact: Copper Alloy  
 Plating: Contact Area—0.75 $\mu$ m (30 $\mu$ in) Gold  
 Underplating—Nickel  
 Gasket Seal: Neoprene, black  
 Operating Temperature: 0 to +70°C

| Description | Order No.  | Lead-free |
|-------------|------------|-----------|
| USB Type A  | 84729-0009 | Yes       |
| USB Type B  | 84730-0001 |           |

## Industrial USB Type-A Panel Mount Receptacle

84729

Bayonet Style to  
5-Circuit Pigtail



### Features and Benefits

- Standard USB shielded I/O system in a rugged, industrial sealed package
- Fully shielded for EMI/RFI protection
- IP67 and NEMA 6P rated cable assemblies are water and dust tight for functional integrity
- Bayonet style latching provides audible and tactile confirmation of positive mating
- Compliance with USB 2.0 specification

### Reference Information

Packaging: Bag  
 Mates With: 84727 and 84732  
 Designed In: Inches  
 Flammability: UL 94V-0  
 Performance: USB 2.0

### Electrical

Voltage: 30V  
 Current: 1.0A  
 Contact Resistance: 30 milliohms max.  
 Dielectric Withstanding Voltage: 750V AC  
 Insulation Resistance: 1000 Megohms min.

### Mechanical

Lock Nut Destructive Torque: 2.71Nm (24 in. lb) or more  
 Mating Force: 35N (7.87 lb) max.  
 Withdrawal Force: 10N (2.25 lb) min.  
 Durability: 1000 mating cycles

### Physical

Receptacle Housing: PBT, black  
 Lock Nut: Polyamide 6/6, black  
 Contact: Copper Alloy  
 Plating: Contact Area—0.75 $\mu$ m (30 $\mu$ in) Gold  
 Underplating—Nickel  
 Gasket Seal: Neoprene, black  
 Wire Gauge: 28 AWG  
 Operating Temperature: 0 to +70°C

| Length       | Order No.  | Lead-free |
|--------------|------------|-----------|
| 0.15m (.49") | 84729-0001 | Yes       |

|                                          |              |
|------------------------------------------|--------------|
| 14 to 22 AWG, 5.84mm (.230") Pitch ..... | G-4 to G-13  |
| 8 to 12 AWG, 7.62mm (.300") Pitch .....  | G-14 to G-18 |

# MX150L™ Sealed Connector System

The pre-assembled, submersible MX150L is a high performance connector system suitable for challenging, rugged and harsh applications.

The MX150L sealed connector system is designed to meet the need for a rugged, environmentally sealed connector system supporting both low-level signal applications as well as power applications up to 40.0A, from on-engine automotive and marine applications to off-road construction equipment applications. The system is comprised of wire-to-wire, wire-to-panel and wire-to-board configurations.

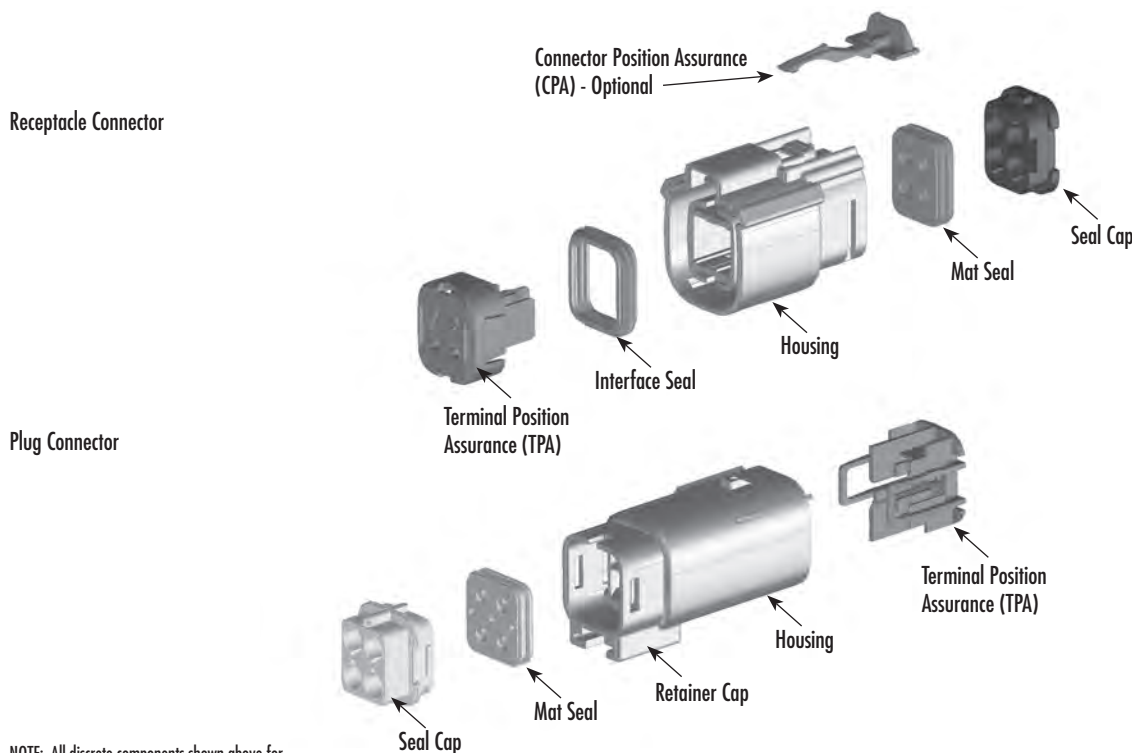
These innovative mat-sealed connectors are based upon the 1.50 and 2.50mm (.059 and .098") blade-type terminals. This design eliminates the need to purchase, handle and crimp individual wire seals to lower applied cost. The mat-seal design is a single silicone-based seal with individual wire openings and a seal cap to protect, securely retain and provide strain relief to the seal. The cost-effective connector design features all-in-one plug and receptacle housings with pre-assembled mat-wire and interfacial connector seals. Integral Terminal Position Assurance (TPA) and optional Connector Position Assurance (CPA) components eliminate time-consuming and costly assembly operations. Completing the application is as simple as crimping the appropriate terminal, inserting the crimped terminal lead and seating the TPA to its final locked position. No additional components are required.

Tooling solutions include FineAdjust™ crimp press applicators for high-volume production, as well as hand tools for low-volume production and field repairs.

## Features and Benefits

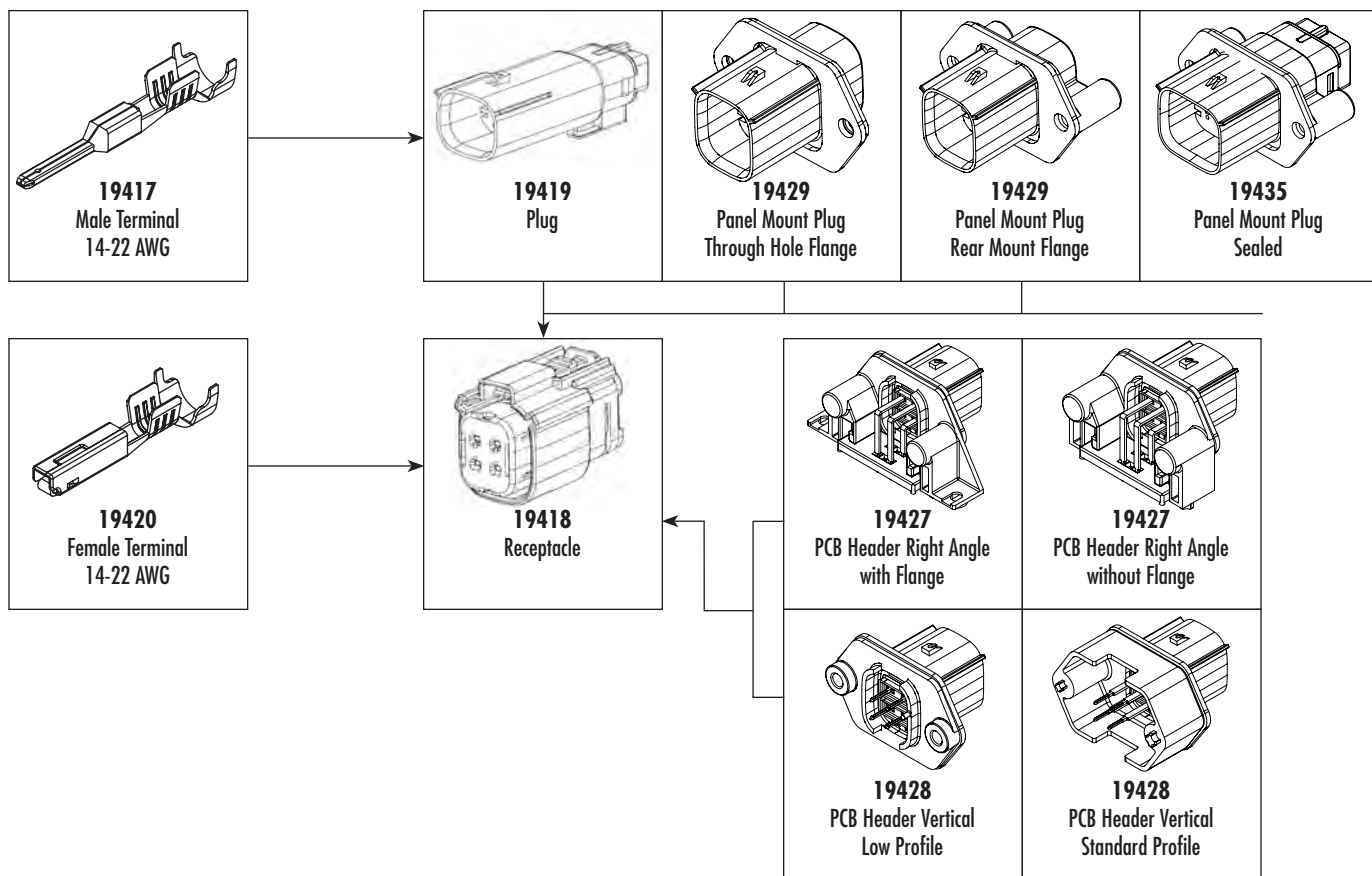
- Pre-assembled connector housings, seals, TPA components and mat-seal cap shipped in 1 piece to provide applied labor and cost savings
- Integral TPA assures that crimped terminal leads are properly locked into connector (TPA will not seat into final lock position and connector system will not latch if terminal is not locked properly into position)
- Conforms to UL 1977, which allows for a UL recognized sealed connector system for use in data, signal, control and power applications
- Superior electrical and mechanical performance capabilities surpass performance of most mature competitive products in market
- Audible and tactile clicks on insertion, extraction and mating feedback facilitates reliable mating and terminal loading and removal
- Unused circuits can be blocked using plastic seal plugs, which facilitates flexibility of sealing unused circuits without adding complexity to part numbers and customer inventory
- Integral locking latch with secondary, pre-loaded CPA option assures that connector system is properly latched. CPA will not move to final locked position if connector is not latched. Confirms positive mating of connector
- Integral, 2-way mat and interface seals designed and tested to IEC IP 67 exceeds "waterproof" demands as a true sealed connector system tested under submersed conditions in various fluids
- Easy terminal insertion and extraction provides quick, low-cost field repairs using common screwdriver, needle nose pliers and terminal extraction tool
- Protective mat-seal cap protects, securely retains and provides strain relief to wire seal interface
- Simple crimp, poke and plug application eliminates need to crimp individual wire seals

## MX150L Sealed Connector Systems - Exploded View



NOTE: All discrete components shown above for both the receptacle and plug housings are pre-assembled. Terminals are simply crimped and poked into the housings. No additional wire seals, wedge locks or CPA locks are required.

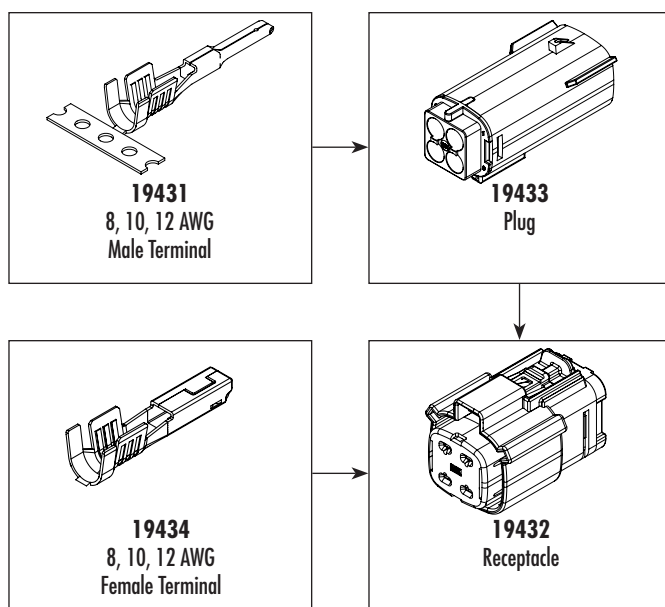
# MX150L™ Product Overview



MX150L™

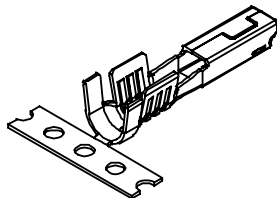
G

## 8, 10 and 12 AWG Wire-to-Wire



# 5.84mm (.230") Pitch MX150L™ Terminal

19420  
Female



## Features and Benefits

- Mat-seal friendly design features center seam and coined edges
- Anti-over stress beam geometry feature
- Low insertion force

## Reference Information

Packaging: Bag, reel  
UL File No.: E152602  
Use With: 19418  
Designed In: Inches

## Electrical

Current: 18.0A

## Mechanical

Contact Insertion Force: 1 lb max.  
Durability: Tin Plating—25 cycles  
Gold Plating—100 cycles

## Physical

Contact: Copper Alloy  
Plating: Tin or Gold

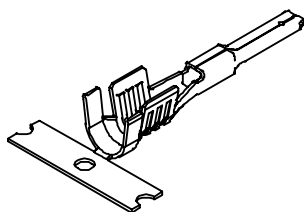
MX150L™

G

| Wire Range<br>AWG | Insulation<br>Diameter<br>mm (in) | Order No.  |            |            |            | Lead-free |
|-------------------|-----------------------------------|------------|------------|------------|------------|-----------|
|                   |                                   | Pre-Tin    |            | Gold       |            |           |
|                   |                                   | Strip      | Loose      | Strip      | Loose      |           |
| 18-22             | 2.36-2.74 (.093 - .108)           | 19420-0002 | 19420-0010 | 19420-0004 | 19420-0012 | Yes       |
| 14-16             | 2.87-3.53 (.113 - .139)           | 19420-0001 | 19420-0009 | 19420-0003 | 19420-0011 |           |

# 5.84mm (.230") Pitch MX150L™ Terminal

19417  
Male



## Features and Benefits

- Mat-seal friendly design features center seam and coined edges
- Low insertion force

## Reference Information

Packaging: Bag, reel  
UL File No.: E152602  
Use With: 19419, 19429 and 19435  
Designed In: Inches

## Electrical

Current: 18.0A

## Mechanical

Contact Insertion Force: 1 lb max.  
Durability: Tin Plating—25 cycles  
Gold Plating—100 cycles

## Physical

Contact: Copper Alloy  
Plating: Tin or Gold

| Wire Range<br>AWG | Insulation<br>Diameter<br>mm (in) | Order No.  |            |            |            | Pin<br>Length | Lead-free |
|-------------------|-----------------------------------|------------|------------|------------|------------|---------------|-----------|
|                   |                                   | Pre-Tin    |            | Gold       |            |               |           |
|                   |                                   | Strip      | Loose      | Strip      | Loose      |               |           |
| 18-22             | 2.36-2.74 (.093 - .108)           | 19417-0024 | 19417-0048 | 19417-0026 | 19417-0050 | Standard      | Yes       |
| 14-16             | 2.87-3.53 (.113 - .139)           | 19417-0011 | 19417-0047 | 19417-0025 | 19417-0049 |               |           |
| 18-22             | 2.36-2.74 (.093 - .108)           | 19417-0028 | 19417-0052 | 19417-0030 | 19417-0054 | Long          |           |
| 14-16             | 2.87-3.53 (.113 - .139)           | 19417-0027 | 19417-0051 | 19417-0029 | 19417-0053 |               |           |

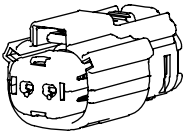
# 5.84mm (.230") Pitch

## MX150L™

### Receptacle

19418

Single Row



- Features and Benefits**
- Environmentally sealed to IP67
  - Integrated interface seal and Terminal Position Assurance (TPA)
  - Optional Connector Position Assurance (CPA)
  - Simple crimp and poke application
  - Field serviceable contact removal system
  - Tactile and audible mating feedback

**Reference Information**  
 Packaging: Tray  
 UL File No.: E152602  
 Mates With: 19419, 19427, 19428,  
                   19429 and 19435  
 Use With: 19420  
 Designed In: Inches

**Electrical**  
 Voltage: 600V  
 Dielectric Withstanding Voltage: 2200V AC min.  
 Insulation Resistance: 1000 Megohms

**Mechanical**  
 Mating Force: 75N max.  
 Unmating Force: 75N max.

**Physical**  
 Housing: SPS glass-filled Crystalline Polymer  
 Operating Temperature: -40 to +125°C

| Circuits | Wire Range (AWG) | Mat-Seal Color | Order No.  |             | Lead-free |
|----------|------------------|----------------|------------|-------------|-----------|
|          |                  |                | With CPA   | Without CPA |           |
| 2        | 18-22            | Red            | 19418-0008 | 19418-0016  | Yes       |
|          | 14-16            | Blue           | 19418-0007 | 19418-0017  |           |

MX150L™

G

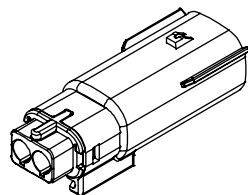
# 5.84mm (.230") Pitch

## MX150L™

### Plug

19419

Single Row



- Features and Benefits**
- Environmentally sealed to IP67
  - Integrated interface seal and Terminal Position Assurance (TPA)
  - Simple crimp and poke application
  - Field serviceable contact removal system
  - Tactile and audible mating feedback

**Reference Information**  
 Packaging: Bag  
 UL File No.: E152602  
 Mates With: 19418  
 Use With: 19417  
 Designed In: Inches

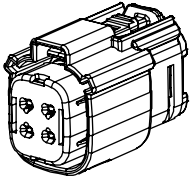
**Electrical**  
 Voltage: 600V  
 Dielectric Withstanding Voltage: 2200V AC min.  
 Insulation Resistance: 1000 Megohms

**Mechanical**  
 Mating Force: 75N max.  
 Unmating Force: 75N max.

**Physical**  
 Housing: SPS glass-filled Crystalline Polymer  
 Operating Temperature: -40 to +125°C

| Circuits | Wire Range (AWG) | Mat-Seal Color | Order No.  | Lead-free |
|----------|------------------|----------------|------------|-----------|
| 2        | 18-22            | Red            | 19419-0008 | Yes       |
|          | 14-16            | Blue           | 19419-0007 |           |

# 5.84mm (.230") Pitch MX150L™ Receptacle 19418 Dual Row



## Features and Benefits

- Environmentally sealed to IP67
- Integrated interface seal and Terminal Position Assurance (TPA)
- Optional Connector Position Assurance (CPA)
- Simple crimp and poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback

## Reference Information

Packaging: Bag  
UL File No.: E152602  
Mates With: 19419, 19427, 19428,  
19429 and 19435  
Use With: 19420  
Designed In: Inches

## Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

## Mechanical

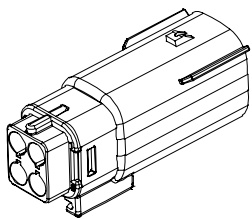
Mating Force: 75N max.  
Unmating Force: 75N max.

## Physical

Housing: SPS glass-filled Crystalline Polymer  
Operating Temperature: -40 to +125°C

| Circuits | Wire Range (AWG) | Mat-Seal Color | Order No.  |             | Lead-free |
|----------|------------------|----------------|------------|-------------|-----------|
|          |                  |                | With CPA   | Without CPA |           |
| 4        | 18-22            | Red            | 19418-0005 | 19418-0018  | Yes       |
|          | 14-16            | Blue           | 19418-0004 | 19418-0019  |           |
| 6        | 18-22            | Red            | 19418-0011 | 19418-0020  |           |
|          | 14-16            | Blue           | 19418-0010 | 19418-0021  |           |
| 8        | 18-22            | Red            | 19418-0001 | 19418-0022  |           |
|          | 14-16            | Blue           | 19418-0002 | 19418-0023  |           |
| 10       | 18-22            | Red            | 19418-0014 | 19418-0024  |           |
|          | 14-16            | Blue           | 19418-0013 | 19418-0025  |           |
| 12       | 18-22            | Red            | 19418-0026 | 19418-0038  |           |
|          | 14-16            | Blue           | 19418-0027 | 19418-0037  |           |
| 16       | 18-22            | Red            | 19418-0029 | 19418-0040  |           |
|          | 14-16            | Blue           | 19418-0030 | 19418-0039  |           |

# 5.84mm (.230") Pitch MX150L™ Plug 19419 Dual Row



## Features and Benefits

- Environmentally sealed to IP67
- Integrated interface seal and Terminal Position Assurance (TPA)
- Simple crimp and poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback

## Reference Information

Packaging: Bag  
UL File No.: E152602  
Mates With: 19418  
Use With: 19417  
Designed In: Inches

## Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

## Mechanical

Mating Force: 75N max.  
Unmating Force: 75N max.

## Physical

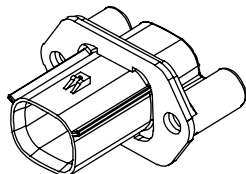
Housing: SPS glass-filled Crystalline Polymer  
Operating Temperature: -40 to +125°C

| Circuits | Wire Range (AWG) | Mat-Seal Color | Order No.  | Lead-free |
|----------|------------------|----------------|------------|-----------|
| 4        | 18-22            | Red            | 19419-0005 | Yes       |
|          | 14-16            | Blue           | 19419-0004 |           |
| 6        | 18-22            | Red            | 19419-0012 |           |
|          | 14-16            | Blue           | 19419-0011 |           |
| 8        | 18-22            | Red            | 19419-0001 |           |
|          | 14-16            | Blue           | 19419-0002 |           |
| 10       | 18-22            | Red            | 19419-0015 |           |
|          | 14-16            | Blue           | 19419-0014 |           |
| 12       | 18-22            | Red            | 19419-0017 |           |
|          | 14-16            | Blue           | 19419-0018 |           |
| 16       | 18-22            | Red            | 19419-0020 |           |
|          | 14-16            | Blue           | 19419-0021 |           |

# 5.84mm (.230") Pitch MX150L™ Panel Mount Plug

19429

Rear Mount Flange  
Single Row



## Features and Benefits

- Environmentally sealed to IP67 when mated
- Integrated Terminal Position Assurance (TPA)
- Simple crimp and poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback
- For inside panel mount application
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly
- Use with molded silicon panel gasket

## Reference Information

Packaging: Bag  
UL File No.: E152602  
Mates With: 19418  
Use With: 19417  
Designed In: Inches

## Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

## Mechanical

Mating Force: 75N max.  
Unmating Force: 75N max.

## Physical

Housing: SPS glass-filled Crystalline Polymer  
Operating Temperature: -40 to +125°C

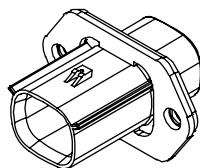
| Circuits | Wire Range (AWG) | Order No.   |                |            | Lead-free |
|----------|------------------|-------------|----------------|------------|-----------|
|          |                  | With Gasket | Without Gasket | Gasket     |           |
| 2        | 14-22            | 19429-0033  | 19429-0005     | 19427-0025 | Yes       |

Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws  
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent

# 5.84mm (.230") Pitch MX150L™ Panel Mount Plug

19429

Through Hole Flange  
Single Row



## Features and Benefits

- Environmentally sealed to IP67 when mated
- Integrated Terminal Position Assurance (TPA)
- Simple crimp and poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback
- For outside or inside panel mount application
- Use with molded silicon panel gasket

## Reference Information

Packaging: Bag  
UL File No.: E152602  
Mates With: 19418  
Use With: 19417  
Designed In: Inches

## Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

## Mechanical

Mating Force: 75N max.  
Unmating Force: 75N max.

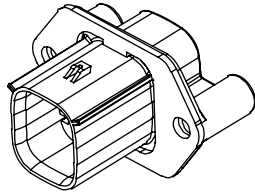
## Physical

Housing: SPS glass-filled Crystalline Polymer  
Operating Temperature: -40 to +125°C

| Circuits | Wire Range (AWG) | Order No.   |                |            | Lead-free |
|----------|------------------|-------------|----------------|------------|-----------|
|          |                  | With Gasket | Without Gasket | Gasket     |           |
| 2        | 14-22            | 19429-0041  | 19429-0026     | 19427-0025 | Yes       |

# 5.84mm (.230") Pitch MX150L™ Panel Mount Plug

**19429**  
Rear Mount Flange  
Dual Row



## Features and Benefits

- Environmentally sealed to IP67 when mated
- Integrated Terminal Position Assurance (TPA)
- Simple crimp and poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback
- For inside panel mount application
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly
- Use with molded silicon panel gasket

## Reference Information

Packaging: Bag  
UL File No.: E152602  
Mates With: 19418  
Use With: 19417  
Designed In: Inches

## Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

## Mechanical

Mating Force: 75N max.  
Unmating Force: 75N max.

## Physical

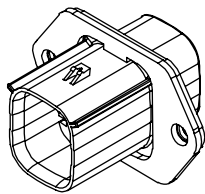
Housing: SPS glass-filled Crystalline Polymer  
Operating Temperature: -40 to +125°C

| Circuits | Wire Range (AWG) | Order No.   |                |            | Lead-free |
|----------|------------------|-------------|----------------|------------|-----------|
|          |                  | With Gasket | Without Gasket | Gasket     |           |
| 4        | 14-22            | 19429-0035  | 19429-0009     | 19427-0024 | Yes       |
| 6        |                  | 19429-0036  | 19429-0010     | 19427-0021 |           |
| 8        |                  | 19429-0037  | 19429-0011     | 19427-0022 |           |
| 10       |                  | 19429-0038  | 19429-0014     | 19427-0029 |           |
| 12       |                  | 19429-0039  | 19429-0015     | 19427-0030 |           |
| 16       |                  | 19429-0040  | 19429-0016     | 19427-0023 |           |

Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws  
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent

# 5.84mm (.230") Pitch MX150L™ Panel Mount Plug

**19429**  
Through Hole Flange  
Dual Row



## Features and Benefits

- Environmentally sealed to IP67 when mated
- Integrated Terminal Position Assurance (TPA)
- Simple crimp and poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback
- For outside or inside panel mount application
- Use with molded silicon panel gasket

## Reference Information

Packaging: Bag  
UL File No.: E152602  
Mates With: 19418  
Use With: 19417  
Designed In: Inches

## Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

## Mechanical

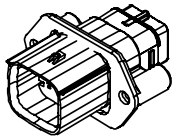
Mating Force: 75N max.  
Unmating Force: 75N max.

## Physical

Housing: SPS glass-filled Crystalline Polymer  
Operating Temperature: -40 to +125°C

| Circuits | Wire Range (AWG) | Order No.   |                |            | Lead-free |
|----------|------------------|-------------|----------------|------------|-----------|
|          |                  | With Gasket | Without Gasket | Gasket     |           |
| 4        | 14-22            | 19429-0043  | 19429-0025     | 19427-0024 | Yes       |
| 6        |                  | 19429-0044  | 19429-0028     | 19427-0021 |           |
| 8        |                  | 19429-0045  | 19429-0029     | 19427-0022 |           |
| 10       |                  | 19429-0046  | 19429-0030     | 19427-0029 |           |
| 12       |                  | 19429-0047  | 19429-0031     | 19427-0030 |           |
| 16       |                  | 19429-0048  | 19429-0032     | 19427-0023 |           |

# 5.84mm (.230") Pitch MX150L™ Sealed Panel Mount Plug 19435 Rear Mount Flange Dual Row



## Features and Benefits

- Environmentally sealed to IP67
- Supports non-closed in panels
- Field serviceable contact removal system
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

## Reference Information

Packaging: Bag  
UL File No.: E152602  
Mates With: 19418  
Use With: 19417  
Designed In: Inches

## Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

## Mechanical

Mating Force: 75N max.  
Unmating Force: 75N max.

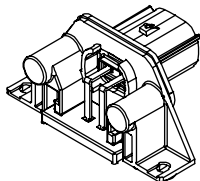
## Physical

Housing: Glass-filled PBT  
Operating Temperature: -40 to +125°C

| Circuits | Wire Range (AWG) | Mat-Seal Color | Order No.   |                | Lead-free |
|----------|------------------|----------------|-------------|----------------|-----------|
|          |                  |                | With Gasket | Without Gasket |           |
| 6        | 18-22            | Red            | 19435-0612  | 19435-0614     | Yes       |
|          | 14-16            | Blue           | 19435-0611  | 19435-0613     |           |
| 8        | 18-22            | Red            | 19435-0812  | 19435-0814     |           |
|          | 14-16            | Blue           | 19435-0811  | 19435-0813     |           |
| 10       | 18-22            | Red            | 19435-1012  | 19435-1014     |           |
|          | 14-16            | Blue           | 19435-1011  | 19435-1013     |           |
| 12       | 18-22            | Red            | 19435-1212  | 19435-1214     |           |
|          | 14-16            | Blue           | 19435-1211  | 19435-1213     |           |

Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws  
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent

# 5.84mm (.230") Pitch MX150L™ PCB Header 19427 Right Angle with PCB Flange Single Row



## Features and Benefits

- Environmentally sealed to IP67
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14 to 22 AWG receptacles
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

## Reference Information

Packaging: Tray  
UL File No.: E152602  
Mates With: 19418  
Designed In: Inches

## Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

## Mechanical

Durability: Tin Plating—25 cycles  
Gold Plating—100 cycles

## Physical

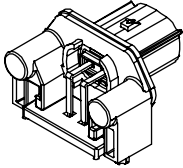
Housing: Glass-filled PBT  
Contact: Copper Alloy  
Plating: Contact Area—Tin or Gold  
Solder Tail Area—Tin  
PCB Thickness: 1.60mm (.062") max.  
Operating Temperature: -40 to +125°C

| Circuits | Order No.  |                 | Lead-free |
|----------|------------|-----------------|-----------|
|          | Tin        | Select Gold/Tin |           |
| 2        | 19427-0094 | 19427-0110      | Yes       |

Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws  
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent

# 5.84mm (.230") Pitch MX150L™ PCB Header

**19427**  
Right Angle  
without PCB Flange  
Single Row



## Features and Benefits

- Environmentally sealed to IP67
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14 to 22 AWG receptacles
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

## Reference Information

Packaging: Tray  
UL File No.: E152602  
Mates With: 19418  
Designed In: Inches

## Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

## Mechanical

Durability: Tin Plating—25 cycles  
Gold Plating—100 cycles

## Physical

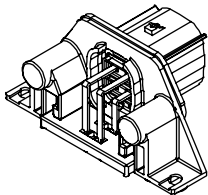
Housing: Glass-filled PBT  
Contact: Copper Alloy  
Plating: Contact Area—Tin or Gold  
Solder Tail Area—Tin  
PCB Thickness: 1.60mm (.062") max.  
Operating Temperature: -40 to +125°C

| Circuits | Order No.  |                 | Lead-free |
|----------|------------|-----------------|-----------|
|          | Tin        | Select Gold/Tin |           |
| 2        | 19427-0040 | 19427-0109      | Yes       |

Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws  
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent

# 5.84mm (.230") Pitch MX150L™ PCB Header

**19427**  
Right Angle  
with PCB Flange  
Dual Row



## Features and Benefits

- Environmentally sealed to IP67
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14 to 22 AWG receptacles
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

## Reference Information

Packaging: Tray  
UL File No.: E152602  
Mates With: 19418  
Designed In: Inches

## Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

## Mechanical

Durability: Tin Plating—25 cycles  
Gold Plating—100 cycles

## Physical

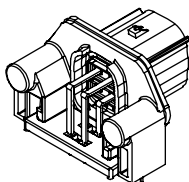
Housing: Glass-filled PBT  
Contact: Copper Alloy  
Plating: Contact Area—Tin or Gold  
Solder Tail Area—Tin  
PCB Thickness: 1.60mm (.062") max.  
Operating Temperature: -40 to +125°C

| Circuits | Order No.  |                 | Lead-free |
|----------|------------|-----------------|-----------|
|          | Tin        | Select Gold/Tin |           |
| 4        | 19427-0096 | 19427-0112      | Yes       |
| 6        | 19427-0097 | 19427-0113      |           |
| 8        | 19427-0098 | 19427-0114      |           |
| 10       | 19427-0099 | 19427-0115      |           |
| 12       | 19427-0100 | 19427-0116      |           |
| 16       | 19427-0101 | 19427-0117      |           |

Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws  
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent

# 5.84mm (.230") Pitch MX150L™ PCB Header

## 19427 Right Angle without PCB Flange Dual Row



### Features and Benefits

- Environmentally sealed to IP67
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14 to 22 AWG receptacles
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

### Reference Information

Packaging: Tray  
UL File No.: E152602  
Mates With: 19418  
Designed In: Inches

### Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

### Mechanical

Durability: Tin Plating—25 cycles  
Gold Plating—100 cycles

### Physical

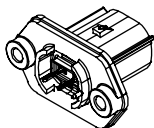
Housing: Glass-filled PBT  
Contact: Copper Alloy  
Plating: Contact Area—Tin or Gold  
Solder Tail Area—Tin  
PCB Thickness: 1.60mm (.062") max.  
Operating Temperature: -40 to +125°C

| Circuits | Order No.  |                 | Lead-free |
|----------|------------|-----------------|-----------|
|          | Tin        | Select Gold/Tin |           |
| 4        | 19427-0032 | 19427-0107      | Yes       |
| 6        | 19427-0018 | 19427-0106      |           |
| 8        | 19427-0017 | 19427-0105      |           |
| 10       | 19427-0031 | 19427-0104      |           |
| 12       | 19427-0012 | 19427-0103      |           |
| 16       | 19427-0049 | 19427-0102      |           |

Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws  
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent

# 5.84mm (.230") Pitch MX150L™ PCB Header

## 19428 Vertical Low Profile Single Row



### Features and Benefits

- Environmentally sealed to IP67
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14 to 22 AWG receptacles
- Tactile and audible mating feedback

### Reference Information

Packaging: Tray  
UL File No.: E152602  
Mates With: 19418  
Designed In: Inches

### Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

### Mechanical

Durability: Tin Plating—25 cycles  
Gold Plating—100 cycles

### Physical

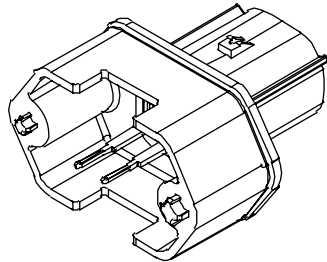
Housing: Glass-filled PBT  
Contact: Copper Alloy  
Plating: Contact Area—Tin or Gold  
Solder Tail Area—Tin  
PCB Thickness: 1.60mm (.062") max.  
Operating Temperature: -40 to +125°C

| Circuits | Order No.  |                 | Lead-free |
|----------|------------|-----------------|-----------|
|          | Tin        | Select Gold/Tin |           |
| 2        | 19428-0009 | 19428-0025      | Yes       |

Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws  
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent

# 5.84mm (.230") Pitch MX150L™ PCB Header

**19428**  
**Vertical**  
**Standard Profile**  
**Single Row**



## Features and Benefits

- Environmentally sealed to IP67
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14 to 22 AWG receptacles
- Tactile and audible mating feedback

## Reference Information

Packaging: Tray  
UL File No.: E152602  
Mates With: 19418  
Designed In: Inches

## Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

## Mechanical

Durability: Tin Plating—25 cycles  
Gold Plating—100 cycles

## Physical

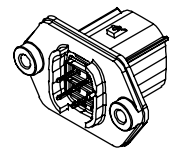
Housing: Glass-filled PBT  
Contact: Copper Alloy  
Plating: Contact Area—Tin or Gold  
Solder Tail Area—Tin  
PCB Thickness: 1.60mm (.062") max.  
Operating Temperature: -40 to +125°C

| Circuits | Order No.  |                 | Lead-free |
|----------|------------|-----------------|-----------|
|          | Tin        | Select Gold/Tin |           |
| 2        | 19428-0007 | 19428-0017      | Yes       |

Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws  
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent

# 5.84mm (.230") Pitch MX150L™ PCB Header

**19428**  
**Vertical**  
**Low Profile**  
**Dual Row**



## Features and Benefits

- Environmentally sealed to IP67
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14 to 22 AWG receptacles
- Tactile and audible mating feedback

## Reference Information

Packaging: Tray  
UL File No.: E152602  
Mates With: 19418  
Designed In: Inches

## Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

## Mechanical

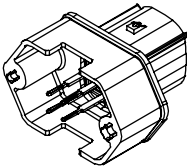
Durability: Tin Plating—25 cycles  
Gold Plating—100 cycles

## Physical

Housing: Glass-filled PBT  
Contact: Copper Alloy  
Plating: Contact Area—Tin or Gold  
Solder Tail Area—Tin  
PCB Thickness: 1.60mm (.062") max.  
Operating Temperature: -40 to +125°C

| Circuits | Order No.  |                 | Lead-free |
|----------|------------|-----------------|-----------|
|          | Tin        | Select Gold/Tin |           |
| 4        | 19428-0011 | 19428-0027      | Yes       |
| 6        | 19428-0012 | 19428-0028      |           |
| 8        | 19428-0013 | 19428-0029      |           |
| 10       | 19428-0014 | 19428-0030      |           |
| 12       | 19428-0015 | 19428-0031      |           |
| 16       | 19428-0016 | 19428-0032      |           |

5.84mm (.230") Pitch  
**MX150L™**  
**PCB Header**  
**19428**  
**Vertical**  
**Standard Profile**  
**Dual Row**



- Features and Benefits**
- Environmentally sealed to IP67
  - Molded silicon panel gasket included
  - Available in tin or gold plating
  - Supports 14 to 22 AWG receptacles
  - Tactile and audible mating feedback

**Reference Information**  
 Packaging: Tray  
 UL File No.: E152602  
 Mates With: 19418  
 Designed In: Inches

**Electrical**  
 Voltage: 600V  
 Dielectric Withstanding Voltage: 2200V AC min.  
 Insulation Resistance: 1000 Megohms

**Mechanical**  
 Durability: Tin Plating—25 cycles  
                   Gold Plating—100 cycles

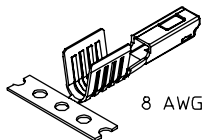
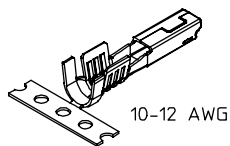
**Physical**  
 Housing: Glass-filled PBT  
 Contact: Copper Alloy  
 Plating: Contact Area—Tin or Gold  
           Solder Tail Area—Tin  
 PCB Thickness: 1.60mm (.062") max.  
 Operating Temperature: -40 to +125°C

| Circuits | Order No.  |                 | Lead-free |
|----------|------------|-----------------|-----------|
|          | Tin        | Select Gold/Tin |           |
| 4        | 19428-0006 | 19428-0019      | Yes       |
| 6        | 19428-0004 | 19428-0020      |           |
| 8        | 19428-0003 | 19428-0021      |           |
| 10       | 19428-0005 | 19428-0022      |           |
| 12       | 19428-0001 | 19428-0023      |           |
| 16       | 19428-0002 | 19428-0024      |           |

Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws  
 Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent

# 7.62mm (.300") Pitch MX150L™ Terminal

19434  
8, 10, 12 AWG  
Female



## Features and Benefits

- Mat-seal friendly design features center seam and coined edges
- High-current
- Low insertion force

## Reference Information

Packaging: Bag, reel  
UL File No.: E152602  
Use With: 19432  
Designed In: Inches

## Electrical

Current: 10-12 AWG—30.0A  
8 AWG—40.0A

## Mechanical

Contact Insertion Force: 1lb max.  
Durability: 25 cycles

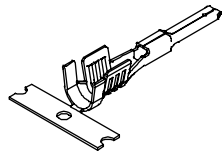
## Physical

Contact: Copper Alloy  
Plating: Tin

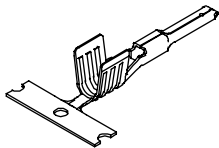
| Wire Range<br>AWG | Insulation Diameter<br>mm (in) | Order No.  |            | Lead-free |
|-------------------|--------------------------------|------------|------------|-----------|
|                   |                                | Strip      | Loose      |           |
| 10-12             | 3.94-4.45 (.155 - .175)        | 19434-0001 | 19434-0003 | Yes       |
| 8                 | .602 (.237)                    | 19434-0002 | 19434-0004 |           |

## 7.62mm (.300") Pitch MX150L™ Terminal

**19431**  
8, 10, 12 AWG  
Male



10-12 AWG



8 AWG

### Features and Benefits

- Mat-seal friendly design features center seam and coined edges
- High-current
- Low insertion force

### Reference Information

Packaging: Bag or reel  
UL File No.: E1 52602  
Use With: 19433  
Designed In: Inches

### Electrical

Current: 10-12 AWG—30.0A  
8 AWG—40.0A

### Mechanical

Contact Insertion Force: 1 lb max.  
Durability: 25 cycles

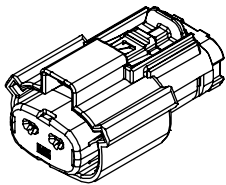
### Physical

Contact: Copper Alloy  
Plating: Tin

| Wire Range<br>AWG | Insulation Diameter<br>mm (in) | Order No.  |            | Lead-free |
|-------------------|--------------------------------|------------|------------|-----------|
|                   |                                | Strip      | Loose      |           |
| 10-12             | 3.94-4.45 (.155-.175)          | 19431-0001 | 19431-0016 | Yes       |
| 8                 | 6.02 (.237)                    | 19431-0015 | 19431-0017 |           |

## 7.62mm (.300") Pitch MX150L™ Receptacle

**19432**  
8, 10, 12 AWG  
Single Row



### Features and Benefits

- Environmentally sealed to IP67
- Integrated mat-wire seal and Terminal Position Assurance (TPA)
- High-current
- Connector Position Assurance (CPA) included
- Simple crimp and poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback

### Reference Information

Packaging: Tray  
UL File No.: E1 52602  
Mates With: 19433  
Use With: 19434  
Designed In: Inches

### Electrical

Voltage: 600V  
Dielectric Withstanding Voltage: 2200V AC min.  
Insulation Resistance: 1000 Megohms

### Mechanical

Mating Force: 75N max.  
Unmating Force: 75N max.

### Physical

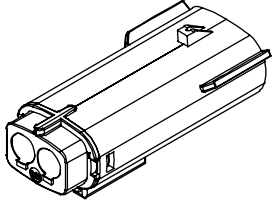
Housing: Glass-filled PBT  
Operating Temperature: -40 to +125°C

| Circuits | Wire Range<br>(AWG) | Mat-Seal<br>Color | Order No.  | Lead-free |
|----------|---------------------|-------------------|------------|-----------|
| 2        | 10-12               | Yellow            | 19432-0013 | Yes       |
|          | 8                   | Red               | 19432-0014 |           |

MX150L™

G

**7.62mm (.300") Pitch**  
**MX150L™**  
**Plug**  
**19433**  
**8, 10, 12 AWG**  
**Single Row**



**Features and Benefits**

- Environmentally sealed to IP67
- Integrated interface seal and Terminal Position Assurance (TPA)
- High-current
- Simple crimp and poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback

**Reference Information**

Packaging: Bag  
 UL File No.: E152602  
 Mates With: 19432  
 Use With: 19431  
 Designed In: Inches

**Electrical**

Voltage: 600V  
 Dielectric Withstanding Voltage: 2200V AC min.  
 Insulation Resistance: 1000 Megohms

**Mechanical**

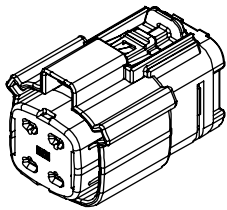
Mating Force: 75N max.  
 Unmating Force: 75N max.

**Physical**

Housing: Glass-filled PBT  
 Operating Temperature: -40 to +125°C

| Circuits | Wire Range (AWG) | Mat-Seal Color | Order No.  | Lead-free |
|----------|------------------|----------------|------------|-----------|
| 2        | 10-12            | Yellow         | 19433-0013 | Yes       |
|          | 8                | Red            | 19433-0014 |           |

**7.62mm (.300") Pitch**  
**MX150L™**  
**Receptacle**  
**19432**  
**8, 10, 12 AWG**  
**Dual Row**



**Features and Benefits**

- Environmentally sealed to IP67
- Integrated mat-wire seal and Terminal Position Assurance (TPA)
- High-current
- Simple crimp and poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback

**Reference Information**

Packaging: Tray  
 UL File No.: E152602  
 Mates With: 19433  
 Use With: 19434  
 Designed In: Inches

**Electrical**

Voltage: 600V  
 Dielectric Withstanding Voltage: 2200V AC min.  
 Insulation Resistance: 1000 Megohms

**Mechanical**

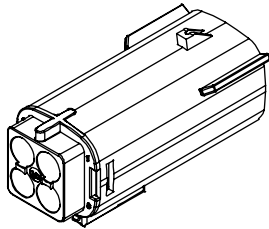
Mating Force: 75N max.  
 Unmating Force: 75N max.

**Physical**

Housing: Glass-filled PBT  
 Operating Temperature: -40 to +125°C

| Circuits | Wire Range (AWG) | Mat-Seal Color | Order No.  | Lead-free |
|----------|------------------|----------------|------------|-----------|
| 4        | 10-12            | Yellow         | 19432-0001 | Yes       |
|          | 8                | Red            | 19432-0002 |           |

**7.62mm (.300") Pitch**  
**MX150L™**  
**Plug**  
**19433**  
**8, 10, 12 AWG**  
**Dual Row**



**Features and Benefits**

- Environmentally sealed to IP67
- Integrated mat-wire seal and Terminal Position Assurance (TPA)
- High-current
- Simple crimp and poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback

**Reference Information**

Packaging: Bag  
 UL File No.: E152602  
 Mates With: 19432  
 Use With: 19431  
 Designed In: Inches

**Electrical**

Voltage: 600V  
 Dielectric Withstanding Voltage: 2200V AC min.  
 Insulation Resistance: 1000 Megohms

**Mechanical**

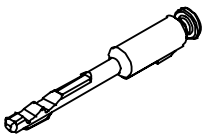
Mating Force: 75N max.  
 Unmating Force: 75N max.

**Physical**

Housing: Glass-filled PBT  
 Operating Temperature: -40 to +125°C

| Circuits | Wire Range (AWG) | Mat-Seal Color | Order No.  | Lead-free |
|----------|------------------|----------------|------------|-----------|
| 4        | 10-12            | Yellow         | 19433-0001 | Yes       |
|          | 8                | Red            | 19433-0002 |           |

**5.84mm (.230") Pitch**  
**MX150L™**  
**Unused Cavity Circuit Plug**  
**19417**  
**14 to 22 AWG**



**Features and Benefits**

- Supports the ability to implement sealed blank cavities in plug and receptacle housings
- Circuit plugs fully seal the unused cavity
- Easily extracted and replaced with a standard male blade or female receptacle terminal
- Provides ability to plan for possible future circuit additions while maintaining the sealing integrity of the mated pair

**Reference Information**

Packaging: Bag  
 UL File No.: E152602  
 Use With: 19418, 19419 and 19435  
 Designed In: Inches

**Physical**

Material: SPS glass-filled Crystalline Polymer  
 Operating Temperature: -40 to +125°C

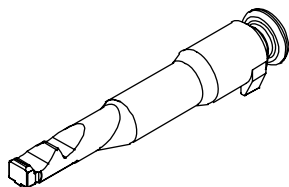
| Housing Series | Order No.  | Lead-free |
|----------------|------------|-----------|
| 19418          | 19417-0119 | Yes       |
| 19419          | 19417-0119 |           |
| 19435          | 19417-0119 |           |

MX150L™

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# 7.62mm (.300") Pitch MX150L™ Unused Cavity Circuit Plug

19431  
8, 10, 12 AWG



## Features and Benefits

- Supports the ability to implement sealed blank cavities in plug and receptacle housings
- Circuit plugs fully seal the unused cavity
- Easily extracted and replaced with a standard male blade or female receptacle terminal
- Provides ability to plan for possible future circuit additions while maintaining the sealing integrity of the mated pair

## Reference Information

Packaging: Bag  
UL File No.: E152602  
Use With: 19433 and 19432  
Designed In: Inches

## Physical

Material: Glass-filled PBT  
Operating Temperature: -40 to +125°C

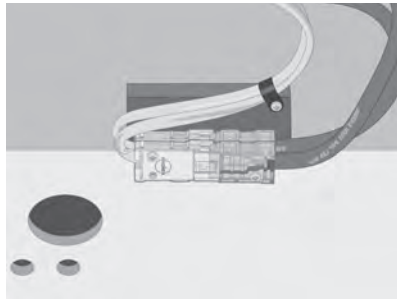
MX150L™

G

| Housing Series | Order No.  | Lead-free |
|----------------|------------|-----------|
| 19433          | 19431-0013 | Yes       |
| 19432          | 19431-0013 |           |

|                                        |             |
|----------------------------------------|-------------|
| SCPC .....                             | H-1 to H-7  |
| Beau™ Plug and Socket Connectors ..... | H-8 to H-15 |

# Self-Contained Power Connectors



Self-Contained Power Connectors (SCPC) from Molex are used to splice and tap solid and stranded nonmetallic sheathed cable and SEOW/SJEW type cable. This connector family supports two and three conductor circuits plus ground for AC power applications. The splice connectors are used for splicing two cable segments together and replace butt connectors, wire nuts and junction boxes used in traditional splice applications. Tap connectors are used for splicing into existing solid conductor cable with ground. Panel mount connectors allow OEMs to incorporate a pluggable electrical power interface into any equipment requiring 110V AC power normally supplied over nonmetallic sheathed copper cable. These connectors, as well as dust/safety covers and available weather tight boots, offer a host of features and benefits.

Self-Contained Power Connectors incorporate a hermaphroditic design meaning it mates with itself so there is only one part to order and inventory.

SCPC feature insulation displacement contacts which provide wire termination without the need to pre-strip the wires. The high impact crystal clear strain relief cover provides durability and allows for complete visual inspection.

Housings have a large markable surface area for easy circuit identification. The simple two-piece construction provides for ease of use and eliminates the worry of losing small parts. The double latching system provides positive connection security when required, but is fully releasable so the connectors can be mated and unmated as needed.

Dust or safety caps protect unmated circuits from damage due to dust and dirt accumulation, as well as prevent accidental shock. These caps also allow SCPC to be implemented into designs and remain unmated for future use. Weather tight boots are ideal for connectors that will be exposed to rain and spray. These boots slip easily over mated connectors with no special tools required.

## Solid Cable Applications

Typical connector applications for the solid cable style connectors include cross-over electrical connections for pre-wired, pre-fabricated/modular structures and homes. With this connector system, manufactured housing OEMs can safely and easily implement modular electrical systems within the structures at the factory and then quickly plug them together at the home site.

## Stranded Cable Applications

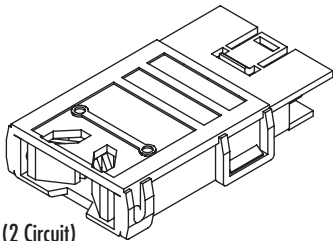
Typical connector applications for the stranded cable style connectors include splices and taps used for AC power applications in the marine industry. With SCPC, marine OEMs can manufacture discrete modules for staterooms, salons and galleys and plug them together into the same electrical system as the modules are dropped into the hull further down the manufacturing line.

## Applications:

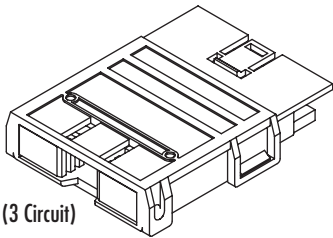
- Non-Automotive Transportation
  - RV/RV Slide outs
  - Marine Industry
- Modular homes
- Office partitions
- Smoke detectors
- Three-way lighting

# Self-Contained Power Connectors for Solid and Stranded Nonmetallic Sheathed Cables

19045, 19401, 19403  
Splice Connectors



(2 Circuit)



(3 Circuit)

## Features and Benefits

- Double-latching system provides positive connection security and is fully releasable so the connector can be mated and unmated as needed
- Markable surface area on housing allows for easy circuit identification
- Hermaphroditic design mates with itself so there is only one part to order and inventory
- High impact crystal clear strain relief cover provides durability and allows for complete visual inspection
- Two-circuit connectors are used to wire home, buildings, office partitions, RVs, motor homes and many more electrical applications using 110 and 220V AC circuits.
- Three-circuit connector generally used for wiring smoke detectors, 3-way lighting and entertainment centers

## Reference Information

Packaging: Box  
 UL File No.: E182087 (12 to 16 AWG)  
                   E217798 (10 AWG non-marine)  
                   E196349 (10 AWG marine)  
 CSA File No.: LR18689-C53  
 NEC Article: 550-10K and 545-13  
 HUD Section: 3280.801  
 Mates With: 19045, 19402, 19403, 19421 and 19424  
 Designed In: Inches

## Electrical

Voltage: 300V  
 Current: 12 to 16 AWG—20.0A  
           10 AWG—30.0A

## Mechanical

Mating Force: 93.41N (21 lb)  
 Unmating Force: 39.14N (8.80 lb)  
 Durability: 250 cycles

## Physical

Housing: PBT  
 Contact: Copper Alloy  
 Plating: Contact Area—Tin  
 Wire Range:10 to 16 AWG  
 Operating Temperature: -35°C to +105°C

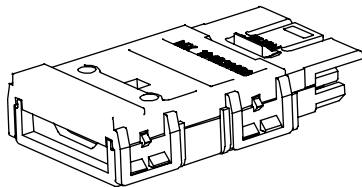
| Circuits | Wire Range (AWG) | Cable Type | Housing Color | Order No.  | Lead-free |
|----------|------------------|------------|---------------|------------|-----------|
| 2        | 12-14            | Solid      | White         | 19045-1000 | Yes       |
|          | 10               |            |               | 19403-1300 |           |
|          | 14-16            | Stranded   | Blue          | 19403-1011 |           |
|          | 12               |            | Yellow        | 19403-1010 |           |
|          | 10               |            | White         | 19403-1300 |           |
| 3        | 12-14            | Solid      | White         | 19401-1000 |           |

Note: For application tooling visit [www.molex.com](http://www.molex.com)

# Self-Contained Power Connectors for Round Stranded SEOW/SJEW Cables

## 19403/19421

### Splice Connectors



#### Features and Benefits

- Double-latching system provides positive connection security and is fully releasable so the connector can be mated and unmated as needed
- Mates with standard Self-Contained Power Connector products including the tap version, and provides a simple and reliable method for transitioning from solid nonmetallic cable to stranded SEOW/SJEW type cable
- Markable surface area on housing allows for easy circuit identification
- Two-circuit SEOW/SJEW versions specifically engineered to accommodate round jacketed, stranded conductor power cords typically found in RV slide-out manufacturing applications

#### Reference Information

Packaging: Box  
 UL File No.: E182087 (12 to 16 AWG)  
 CSA File No.: LR18689-C53  
 NEC Article: 550-10K and 545-13  
 HUD Section: 3280.801  
 Mates With: 19045, 19402, 19403, 19421 and 19424  
 Designed In: Inches

#### Electrical

Voltage: 600V  
 Current: 20.0A

#### Mechanical

Mating Force: 93.41N (21lb)  
 Unmating Force: 39.14N (8.80 lb)  
 Durability: 250 cycles

#### Physical

Housing: PBT  
 Contact: Copper Alloy  
 Plating: Contact Area—Tin  
 Wire Range: 12 to 14 AWG  
 Operating Temperature: -35°C to +105°C

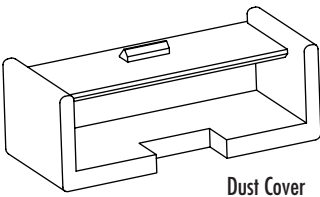
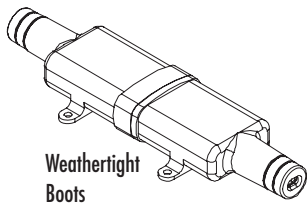
| Circuits | Wire Range (AWG) | Insulation Diameter<br>Mm (in.) | Housing Color | Cover Color | Order No.  | Lead-free |
|----------|------------------|---------------------------------|---------------|-------------|------------|-----------|
| 2        | 14               | 8.64-11.18mm (.340-.440")       | White         | Clear       | 19403-1310 | Yes       |
|          |                  | 15.24mm (.600")                 |               | Blue        | 19403-0011 |           |
|          | 12               | 8.64-11.18mm (.340-.440")       | Yellow        | Clear       | 19421-0001 |           |
|          |                  | 15.24mm (.600")                 |               | Blue        | 19421-0002 |           |

Note: For application tooling visit [www.molex.com](http://www.molex.com)

# Self-Contained Power Connector Accessories

19045/19402/19403  
19425/19426

## Weathertight Boots and Covers



### Features and Benefits

- Weathertight boots provide effective protection against water ingress when exposed to rain and spray
- Boots slide over mated connectors eliminating the need for special tools
- Dust cover and safety cap allow unmated SCPC to be implemented into designs for future use
- Caps can be used on both splice and tap connectors

### Reference Information

Packaging: Box  
UL File No.: E182087  
Use With: 2-circuit SCPC  
Designed In: Inches

### Physical

Boots: Thermoplastic  
Covers: PBT  
Wire Gauge: 10 to 16 AWG  
Operating Temperature: -35°C to +105°C

### Weathertight Boots

| Cable Type      | Wire Range (AWG) | Gender | Order No.  | Lead-free |
|-----------------|------------------|--------|------------|-----------|
| Marine Stranded | 12-16            | Male   | 19403-1060 | Yes       |
|                 | 12-16            | Female | 19403-1061 |           |
|                 | 10               | Male   | 19403-0008 |           |
|                 | 10               | Female | 19403-0009 |           |
| Solid           | 12-14            | Male   | 19425-0001 |           |
|                 | 12-14            | Female | 19425-0002 |           |
| Round Stranded  | 12-14            | Male   | 19426-0001 |           |
|                 | 12-14            | Female | 19426-0002 |           |

Note: Male and female versions of weathertight boots are intermateable (e.g. solid cable male boot will mate with a round stranded female boot)

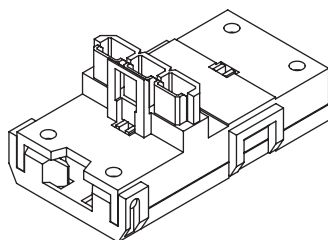
### Covers

| Description | Order No.  | Lead-free |
|-------------|------------|-----------|
| Safety cap  | 19045-3180 | Yes       |
| Dust cover  | 19402-5000 |           |

# Self-Contained Power Connectors for Solid and Stranded Nonmetallic Sheathed Cables

## 19402

### Tap Connectors



#### Features and Benefits

- Double-latching system provides positive connection security and is fully releasable so the connector can be mated and unmated as needed
- Markable surface area on housing allows for easy circuit identification
- Hermaphroditic design mates with itself so there is only one part to order and inventory
- High impact crystal clear strain relief cover provides durability and allows for complete visual inspection
- Two-circuit connectors are used to wire home, buildings, office partitions, RVs, motor homes and many more electrical applications using 110 and 220V AC circuits.
- Three-circuit connector generally used for wiring smoke detectors, 3-way lighting and entertainment centers

#### Reference Information

Packaging: Box  
 UL File No.: E182087 (12 to 16 AWG)  
 CSA File No.: LR18689-C53  
 NEC Article: 550-10K and 545-13  
 HUD Section: 3280.801  
 Mates With: 19045, 19403 and 19421  
 Designed In: Inches

#### Electrical

Voltage: 300V  
 Current: 20.0A

#### Mechanical

Mating Force: 93.41N (21 lb)  
 Unmating Force: 39.14N (8.80 lb)  
 Durability: 250 cycles

#### Physical

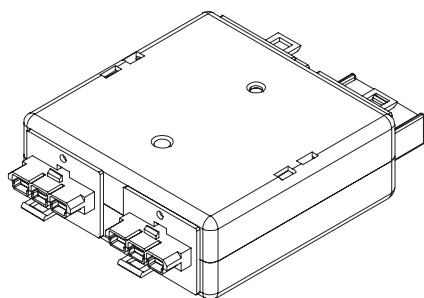
Housing: PBT  
 Contact: Copper Alloy  
 Plating: Contact Area—Tin  
 Wire Range: 12 to 16 AWG  
 Operating Temperature: -35°C to +105°C

| Circuits | Wire Range (AWG) | Cable Type | Order No.  | Lead-free |
|----------|------------------|------------|------------|-----------|
| 2        | 12-14            | Solid      | 19402-1000 | Yes       |
|          | 14-16            | Stranded   | 19402-1011 |           |
|          | 12               |            | 19402-1010 |           |

Note: For application tooling visit [www.molex.com](http://www.molex.com)

# Self-Contained Power Connector Splitter Box

## 19424



#### Features and Benefits

- Double-latching system provides positive connection security and is fully releasable so the connector can be mated and unmated as needed
- SCPC Splitter Box supports modular wiring applications common in OEM manufactured housing, marine and RV industries
- Enables efficient 110V, 20.0A power distribution using a convenient low-profile junction system compatible with the standard SCPC connector interface

#### Reference Information

Packaging: Tray  
 UL File No.: E152602  
 Mates With: 19045, 19403 and 19421  
 Designed In: Inches

#### Electrical

Voltage: 600V  
 Current: 20.0A  
 Dielectric Withstanding Voltage: 1600V

#### Mechanical

Mating Force: 93.41N (21 lb)  
 Unmating Force: 39.14N (8.80 lb)  
 Durability: 250 cycles

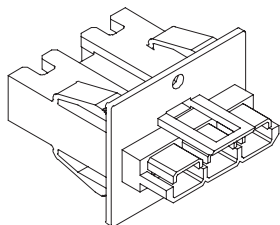
#### Physical

Housing: PBT  
 Contact: Copper Alloy  
 Plating: Contact Area—Tin  
 Wire Range: 12 to 14 AWG  
 Operating Temperature: -35°C to +105°C

| Wire Range (AWG) | Cable Type        | Housing Color | Order No.  | Lead-free |
|------------------|-------------------|---------------|------------|-----------|
| 12-14            | Solid or stranded | White         | 19424-0002 | Yes       |

# Self-Contained Power Connector Panel Mount Housing

19403



## Features and Benefits

- Double-latching system provides positive connection security and is fully releasable so the connector can be mated and unmated as needed
- Panel mount connector allows OEMs to incorporate a pluggable electrical power interface into any equipment requiring 110V AC power normally supplied over nonmetallic sheathed copper cable
- Crimp-on electrical contacts are compatible with both stranded and solid wire

## Reference Information

Packaging: Box  
UL File No.: 152602  
CSA File No.: LR18689-C53  
Flammability: UL 94-5VA  
Mates With: 19403  
Use With: 19403 Terminals  
Designed In: Inches

## Electrical

Voltage: 300V  
Current: 12 to 14 AWG—20.0A  
10 AWG—30.0A  
Dielectric Withstanding Voltage: 1600V

## Mechanical

Mating Force: 93.41N (21lb)  
Unmating Force: 39.14N (8.80 lb)  
Durability: 250 cycles

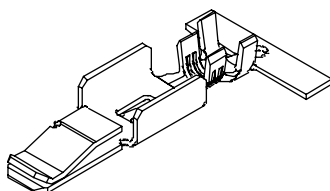
## Physical

Housing: PBT  
Contact: Copper Alloy  
Plating: Contact Area—Tin  
Wire Range: 10 to 14 AWG  
Operating Temperature: -35°C to +105°C

| Circuits | Wire Range (AWG) | Order No.  | Lead-free |
|----------|------------------|------------|-----------|
| 2        | 12-14            | 19403-1120 | Yes       |
|          | 10               | 19403-1230 |           |

# Self-Contained Power Connector Terminals

19403



## Features and Benefits

- Crimp-on electrical terminals are compatible with solid and stranded wire

## Reference Information

Packaging: Bag, Reel  
UL File No.: E152602  
Use With: 19403 panel mount housing  
Designed In: Inches

## Electrical

Voltage: 300V  
Current: 12 to 14 AWG—20.0A  
10 AWG—30.0A

## Mechanical

Contact Insertion Force: 4.45N (1.0 lb max.)  
Insulation Diameter:  
12 to 14 AWG—3.48 to 4.11mm (.137 to .162")  
10 AWG—4.70mm (.185")  
Durability: 25 cycles

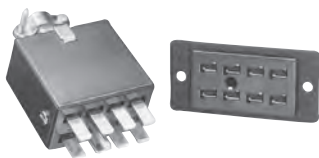
## Physical

Contact: Copper Alloy  
Plating: Tin

| Wire Range AWG | Order No.  |            | Lead-free |
|----------------|------------|------------|-----------|
|                | Reel       | Loose      |           |
| 12-14          | 19403-1130 | 19403-1131 | Yes       |
| 10             | 19403-1240 | 19403-1241 |           |

Note: For application tooling visit [www.molex.com](http://www.molex.com)

# Beau™ Power Connectors Panel and Cable Mount Plugs and Sockets



Beau plug and socket blade-type connectors from Molex offer extremely high reliability. These unique flat blade connectors provide superior durability over hollow pin connectors. The flat blade design is harder and has more mass than hollow pins allowing them to be mated again and again without damage. These products are often used in applications that require 20-year longevity in ordinary environments.

Thermoplastic backshells provide greater dielectric strength and safety. These backshells resist scuffing, abrasion, most acids and alkalies and are also rustproof.

Uniform float contacts allow for maximum surface engagement and easier mating.

This exceptional design results in low contact resistance and high current carrying capacity.

The variety of contact tails and hardware options allow you to design a part to meet your specific design requirements. For options regarding contact tails and hardware not found in this catalog, contact Molex for availability and order numbers.

## Applications:

- Traffic control
- Vending machines
- DC motor

Contact Molex for order numbers using contact tails other than the standard.

## Contact Tails Available for series 38330 and 38331

| Contact Tail Styles         | Contact Tail Length | Hole Diameter/Quick Connect Size |  |
|-----------------------------|---------------------|----------------------------------|--|
| Solder Eye*                 | 7.62mm (.300")      | 1.78 x 2.54mm (.070 x .100")     |  |
| Solder Eye                  | 5.59mm (.220")      | 1.78 x 2.54mm (.070 x .100")     |  |
| Wire Wrap                   | 9.65mm (.380")      |                                  |  |
| Quick Connect (single hole) | 9.91mm (.390")      | 2.79 x 0.51mm (.110 x .020")     |  |
| Quick Connect (double hole) | 5.59mm (.220")      | 2.79 x 0.51mm (.110 x .020")     |  |
| Printed Circuit             | 6.35mm (.250")      |                                  |  |

\*Standard contact tail

## Contact Tails Available for series 38540, 38541 and 38542

| Contact Tail Style           | Contact Tail Length | Hole/Quick Connect Size      |  |
|------------------------------|---------------------|------------------------------|--|
| Solder Hook*                 | 7.11mm (.280")      |                              |  |
| Solder Eye                   | 8.38mm (.330")      | 3.56mm (.140")               |  |
|                              | 6.35mm (.250")      | 3.30 x 4.06mm (.130 x .160") |  |
| Solder Eye and Quick Connect | 6.35mm (.250")      | 2.29mm (.090")               |  |
|                              | 6.35mm (.250")      | 4.06mm (.160")               |  |
| Quick Connect                | 8.38mm (.330")      | 5.21 x 0.81mm (.205 x .032") |  |
|                              | 8.38mm (.330")      | 4.75 x 0.81mm (.187 x .032") |  |
| Printed Circuit              | 9.65mm (.380")      |                              |  |
|                              | 6.35mm (.250")      |                              |  |

\*Standard contact tail for plugs

## Beau™ Power Connectors Panel Mount Plugs and Sockets

### 38330

#### Angle Bracket, Angle Bracket Tapped, Without Angle Bracket



Angle Bracket shown

#### Features and Benefits

- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

#### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

#### Electrical

Voltage: 250V  
Current: 10.0A

#### Mechanical

Durability: 500 cycles

#### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 150°C

#### Plugs

| Circuits | Order No.     |                      |                       | Lead-free |
|----------|---------------|----------------------|-----------------------|-----------|
|          | Angle Bracket | Angle Bracket Tapped | Without Angle Bracket |           |
| 2        | 38330-0102    | 38330-1502           | 38330-2202            | Yes       |
| 3        | 38330-0103    | 38330-1503           | 38330-2203            |           |
| 4        | 38330-0104    | 38330-1504           | 38330-2204            |           |
| 6        | 38330-0106    | 38330-1506           | 38330-2206            |           |
| 8        | 38330-0108    | 38330-1508           | 38330-2208            |           |
| 10       | 38330-0110    | 38330-1510           | 38330-2210            |           |
| 12       | 38330-0112    | 38330-1512           | 38330-2212            |           |
| 15       | 38330-0115    | 38330-1515           | 38330-2215            |           |
| 18       | 38330-0118    | 38330-1518           | 38330-2218            |           |
| 21       | 38330-0121    | 38330-1521           | 38330-2221            |           |
| 24       | 38330-0124    | 38330-1524           | 38330-2224            |           |
| 27       | 38330-0127    | 38330-1527           | 38330-2227            |           |
| 30       | 38330-0130    | 38330-1530           | 38330-2230            |           |
| 33       | 38330-0133    | 38330-1533           | 38330-2233            |           |

Note: Solder Eye is the standard contact tail for plugs and sockets. Contact Molex for additional contact options and order numbers.

#### Sockets

| Circuits | Order No.     |                      |                       | Lead-free |
|----------|---------------|----------------------|-----------------------|-----------|
|          | Angle Bracket | Angle Bracket Tapped | Without Angle Bracket |           |
| 2        | 38330-0502    | 38330-1902           | 38330-2602            | Yes       |
| 3        | 38330-0503    | 38330-1903           | 38330-2603            |           |
| 4        | 38330-0504    | 38330-1904           | 38330-2604            |           |
| 6        | 38330-0506    | 38330-1906           | 38330-2606            |           |
| 8        | 38330-0508    | 38330-1908           | 38330-2608            |           |
| 10       | 38330-0510    | 38330-1910           | 38330-2610            |           |
| 12       | 38330-0512    | 38330-1912           | 38330-2612            |           |
| 15       | 38330-0515    | 38330-1915           | 38330-2615            |           |
| 18       | 38330-0518    | 38330-1918           | 38330-2618            |           |
| 21       | 38330-0521    | 38330-1921           | 38330-2621            |           |
| 24       | 38330-0524    | 38330-1924           | 38330-2624            |           |
| 27       | 38330-0527    | 38330-1927           | 38330-2627            |           |
| 30       | 38330-0530    | 38330-1930           | 38330-2630            |           |
| 33       | 38330-0533    | 38330-1933           | 38330-2633            |           |

## Beau™ Power Connectors Panel Mount Plugs and Sockets

### 38330

#### Shallow Bracket



#### Features and Benefits

- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

#### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

#### Electrical

Voltage: 250V  
Current: 10.0A

#### Mechanical

Durability: 500 cycles

#### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 150°C

#### Plugs

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 15       | 38330-6415 | Yes       |
| 18       | 38330-6418 |           |
| 21       | 38330-6421 |           |
| 24       | 38330-6424 |           |
| 27       | 38330-6427 |           |
| 30       | 38330-6430 |           |
| 33       | 38330-6433 |           |

Note: Solder Eye is the standard contact tail for plugs and sockets. Contact Molex for additional contact options and order numbers.

#### Sockets

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 15       | 38330-6815 | Yes       |
| 18       | 38330-6818 |           |
| 21       | 38330-6821 |           |
| 24       | 38330-6824 |           |
| 27       | 38330-6827 |           |
| 30       | 38330-6830 |           |
| 33       | 38330-6833 |           |

## Beau™ Power Connectors Panel Mount Plugs and Sockets

### 38330

#### Deep Bracket



Plugs

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 38330-5702 | Yes       |
| 3        | 38330-5703 |           |
| 4        | 38330-5704 |           |
| 6        | 38330-5706 |           |
| 8        | 38330-5708 |           |
| 12       | 38330-5712 |           |
| 15       | 38330-5715 |           |
| 18       | 38330-5718 |           |
| 21       | 38330-5721 |           |
| 24       | 38330-5724 |           |
| 27       | 38330-5727 |           |
| 30       | 38330-5730 |           |
| 33       | 38330-5733 |           |

Note: Solder Eye is the standard contact tail for plugs and sockets. Contact Molex for additional contact options and order numbers.

#### Features and Benefits

- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

#### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

#### Electrical

Voltage: 250V  
Current: 10.0A

#### Mechanical

Durability: 500 cycles

#### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 150°C

Sockets

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 38330-6102 | Yes       |
| 3        | 38330-6103 |           |
| 4        | 38330-6104 |           |
| 6        | 38330-6106 |           |
| 8        | 38330-6108 |           |
| 12       | 38330-6112 |           |
| 15       | 38330-6115 |           |
| 18       | 38330-6118 |           |
| 21       | 38330-6121 |           |
| 24       | 38330-6124 |           |
| 27       | 38330-6127 |           |
| 30       | 38330-6130 |           |
| 33       | 38330-6133 |           |

## Beau™ Power Connectors Cable Mount Plugs and Sockets

### 38331

#### Cable Clamp Top Cable Clamp Top with Keeper Cable Clamp Top with Latch



Cable Clamp Top shown

Plugs

| Circuits | Order No.       |                             |                            | Lead-free |
|----------|-----------------|-----------------------------|----------------------------|-----------|
|          | Cable Clamp Top | Cable Clamp Top with Keeper | Cable Clamp Top with Latch |           |
| 2        | 38331-5602      | 38331-6002                  | 38331-5802                 | Yes       |
| 3        | 38331-5603      | 38331-6003                  | 38331-5803                 |           |
| 4        | 38331-5604      | 38331-6004                  | 38331-5804                 |           |
| 6        | 38331-5606      | 38331-6006                  | 38331-5806                 |           |
| 8        | 38331-5608      | 38331-6008                  | 38331-5808                 |           |
| 10       | 38331-5610      | 38331-6010                  | 38331-5810                 |           |
| 12       | 38331-5612      | 38331-6012                  | 38331-5812                 |           |
| 15       | 38331-5615      | 38331-6015                  | 38331-5815                 |           |
| 18       | 38331-5618      | 38331-6018                  | 38331-5818                 |           |
| 21       | 38331-5621      | 38331-6021                  | 38331-5821                 |           |
| 24       | 38331-5624      | 38331-6024                  | 38331-5824                 |           |
| 27       | 38331-5627      | 38331-6027                  | 38331-5827                 |           |
| 30       | 38331-5630      | 38331-6030                  | 38331-5830                 |           |
| 33       | 38331-5633      | 38331-6033                  | 38331-5833                 |           |

Note: Solder Eye is the standard contact tail for plugs and sockets. Contact Molex for additional contact options and order numbers.

#### Features and Benefits

- Latch and keeper hardware ensure that plug and socket remain mated even in high vibration applications
- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

#### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

#### Electrical

Voltage: 250V  
Current: 10.0A

#### Mechanical

Durability: 500 cycles

#### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 110°C

Sockets

| Circuits | Order No.       |                             |                            | Lead-free |
|----------|-----------------|-----------------------------|----------------------------|-----------|
|          | Cable Clamp Top | Cable Clamp Top with Keeper | Cable Clamp Top with Latch |           |
| 2        | 38331-8002      | 38331-8402                  | 38331-8202                 | Yes       |
| 3        | 38331-8003      | 38331-8403                  | 38331-8203                 |           |
| 4        | 38331-8004      | 38331-8404                  | 38331-8204                 |           |
| 6        | 38331-8006      | 38331-8406                  | 38331-8206                 |           |
| 8        | 38331-8008      | 38331-8408                  | 38331-8208                 |           |
| 10       | 38331-8010      | 38331-8410                  | 38331-8210                 |           |
| 12       | 38331-8012      | 38331-8412                  | 38331-8212                 |           |
| 15       | 38331-8015      | 38331-8415                  | 38331-8215                 |           |
| 18       | 38331-8018      | 38331-8418                  | 38331-8218                 |           |
| 21       | 38331-8021      | 38331-8421                  | 38331-8221                 |           |
| 24       | 38331-8024      | 38331-8424                  | 38331-8224                 |           |
| 27       | 38331-8027      | 38331-8427                  | 38331-8227                 |           |
| 30       | 38331-8030      | 38331-8430                  | 38331-8230                 |           |
| 33       | 38331-8033      | 38331-8433                  | 38331-8233                 |           |

# Beau™ Power Connectors Cable Mount Plugs and Sockets

## 38331 Cable Clamp End



### Features and Benefits

- Strain relief cable clamps can be used with round or flat cable
- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

### Electrical

Voltage: 250V  
Current: 10.0A

### Mechanical

Durability: 500 cycles

### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 110°C

### Plugs

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 3        | 38331-1403 | Yes       |
| 4        | 38331-1404 |           |
| 6        | 38331-1406 |           |
| 8        | 38331-1408 |           |
| 10       | 38331-1410 |           |
| 12       | 38331-1412 |           |
| 15       | 38331-1415 |           |
| 18       | 38331-1418 |           |
| 21       | 38331-1421 |           |
| 24       | 38331-1424 |           |
| 27       | 38331-1427 |           |
| 30       | 38331-1430 |           |
| 33       | 38331-1433 |           |

Note: Solder Eye is the standard contact tail for plugs and sockets. Contact Molex for additional contact options and order numbers.

### Sockets

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 3        | 38331-3803 | Yes       |
| 4        | 38331-3804 |           |
| 6        | 38331-3806 |           |
| 8        | 38331-3808 |           |
| 10       | 38331-3810 |           |
| 12       | 38331-3812 |           |
| 15       | 38331-3815 |           |
| 18       | 38331-3818 |           |
| 21       | 38331-3821 |           |
| 24       | 38331-3824 |           |
| 27       | 38331-3827 |           |
| 30       | 38331-3830 |           |
| 33       | 38331-3833 |           |

# Beau™ Power Connectors Cable Mount Plugs and Sockets

## 38330/38331 Flared Hole Top



### Features and Benefits

- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

### Electrical

Voltage: 250V  
Current: 10.0A

### Mechanical

Durability: 500 cycles

### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 110°C

### Plugs

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 2        | 38330-9902 | Yes       |
| 3        | 38330-9903 |           |
| 4        | 38330-9904 |           |
| 6        | 38330-9906 |           |
| 8        | 38330-9908 |           |
| 10       | 38330-9910 |           |
| 12       | 38330-9912 |           |
| 15       | 38330-9915 |           |
| 18       | 38330-9918 |           |
| 21       | 38330-9921 |           |
| 24       | 38330-9924 |           |
| 27       | 38330-9927 |           |
| 30       | 38330-9930 |           |
| 33       | 38330-9933 |           |

Note: Solder Eye is the standard contact tail for plugs and sockets. Contact Molex for additional contact options and order numbers.

### Sockets

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 3        | 38331-0803 | Yes       |
| 4        | 38331-0804 |           |
| 6        | 38331-0806 |           |
| 8        | 38331-0808 |           |
| 10       | 38331-0810 |           |
| 12       | 38331-0812 |           |
| 15       | 38331-0815 |           |
| 18       | 38331-0818 |           |
| 21       | 38331-0821 |           |
| 24       | 38331-0824 |           |
| 27       | 38331-0827 |           |
| 30       | 38331-0830 |           |
| 33       | 38331-0833 |           |

## Beau™ Power Connectors Cable Mount Plugs and Sockets

**38330**
**Flared Hole End**


### Features and Benefits

- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

### Electrical

Voltage: 250V  
Current: 10.0A

### Mechanical

Durability: 500 cycles

### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 110°C

### Plugs

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 3        | 38330-8503 | Yes       |
| 4        | 38330-8504 |           |
| 6        | 38330-8506 |           |
| 8        | 38330-8508 |           |
| 10       | 38330-8510 |           |
| 12       | 38330-8512 |           |
| 15       | 38330-8515 |           |
| 18       | 38330-8518 |           |
| 21       | 38330-8521 |           |
| 24       | 38330-8524 |           |
| 27       | 38330-8527 |           |
| 30       | 38330-8530 |           |
| 33       | 38330-8533 |           |

Note: Solder Eye is the standard contact tail for plugs and sockets. Contact Molex for additional contact options and order numbers.

### Sockets

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 38330-9303 | Yes       |
| 6        | 38330-9304 |           |
| 8        | 38330-9306 |           |
| 10       | 38330-9308 |           |
| 12       | 38330-9310 |           |
| 15       | 38330-9312 |           |
| 18       | 38330-9315 |           |
| 21       | 38330-9318 |           |
| 24       | 38330-9321 |           |
| 27       | 38330-9324 |           |
| 30       | 38330-9327 |           |
| 33       | 38330-9330 |           |

## Beau™ Power Connectors Panel Mount Plugs and Sockets

**38540**
**Angle Bracket,  
Angle Bracket Tapped,  
Without Angle Bracket**


Angle Bracket shown

### Features and Benefits

- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

### Electrical

Voltage: 250V  
Current: 15.0A

### Mechanical

Durability: 500 cycles

### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 150°C

### Plugs

| Circuits | Order No.     |                      |                       | Lead-free |
|----------|---------------|----------------------|-----------------------|-----------|
|          | Angle Bracket | Angle Bracket Tapped | Without Angle Bracket |           |
| 4        | 38540-0104    | 38540-1004           | 38540-1904            | Yes       |
| 5        | 38540-0105    | 38540-1005           | 38540-1905            |           |
| 6        | 38540-0106    | 38540-1006           | 38540-1906            |           |
| 7        | 38540-0107    | 38540-1007           | 38540-1907            |           |
| 8        | 38540-0108    | 38540-1008           | 38540-1908            |           |
| 9        | 38540-0109    | 38540-1009           | 38540-1909            |           |
| 10       | 38540-0110    | 38540-1010           | 38540-1910            |           |
| 11       | 38540-0111    | 38540-1011           | 38540-1911            |           |
| 12       | 38540-0112    | 38540-1012           | 38540-1912            |           |
| 13       | 38540-0113    | 38540-1013           | 38540-1913            |           |
| 14       | 38540-0114    | 38540-1014           | 38540-1914            |           |
| 15       | 38540-0115    | 38540-1015           | 38540-1915            |           |
| 16       | 38540-0116    | 38540-1016           | 38540-1916            |           |

Note: Solder Hook is the standard contact tail for plugs. Contact Molex for additional contact options and order numbers.

### Sockets

| Circuits | Order No.     |                      |                       | Lead-free |
|----------|---------------|----------------------|-----------------------|-----------|
|          | Angle Bracket | Angle Bracket Tapped | Without Angle Bracket |           |
| 4        | 38540-0604    | 38540-1504           | 38540-2404            | Yes       |
| 5        | 38540-0605    | 38540-1505           | 38540-2405            |           |
| 6        | 38540-0606    | 38540-1506           | 38540-2406            |           |
| 7        | 38540-0607    | 38540-1507           | 38540-2407            |           |
| 8        | 38540-0608    | 38540-1508           | 38540-2408            |           |
| 9        | 38540-0609    | 38540-1509           | 38540-2409            |           |
| 10       | 38540-0610    | 38540-1510           | 38540-2410            |           |
| 11       | 38540-0611    | 38540-1511           | 38540-2411            |           |
| 12       | 38540-0612    | 38540-1512           | 38540-2412            |           |
| 13       | 38540-0613    | 38540-1513           | 38540-2413            |           |
| 14       | 38540-0614    | 38540-1514           | 38540-2414            |           |
| 15       | 38540-0615    | 38540-1515           | 38540-2415            |           |
| 16       | 38540-0616    | 38540-1516           | 38540-2416            |           |

Note: Solder Eye is the standard contact tail for sockets. Contact Molex for additional contact options and order numbers.

# Beau™ Power Connectors Panel Mount Plugs and Sockets

## 38542 Shallow Bracket



### Features and Benefits

- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

### Electrical

Voltage: 250V  
Current: 15.0A

### Mechanical

Durability: 500 cycles

### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 150°C

### Plugs

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 38542-0804 | Yes       |
| 5        | 38542-0805 |           |
| 6        | 38542-0806 |           |
| 7        | 38542-0807 |           |
| 8        | 38542-0808 |           |
| 9        | 38542-0809 |           |
| 10       | 38542-0810 |           |
| 11       | 38542-0811 |           |
| 12       | 38542-0812 |           |
| 13       | 38542-0813 |           |
| 14       | 38542-0814 |           |
| 15       | 38542-0815 |           |
| 16       | 38542-0816 |           |

Note: Solder Hook is the standard contact tail for plugs. Contact Molex for additional contact options and order numbers.

### Sockets

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 38542-1304 | Yes       |
| 5        | 38542-1305 |           |
| 6        | 38542-1306 |           |
| 7        | 38542-1307 |           |
| 8        | 38542-1308 |           |
| 9        | 38542-1309 |           |
| 10       | 38542-1310 |           |
| 11       | 38542-1311 |           |
| 12       | 38542-1312 |           |
| 13       | 38542-1313 |           |
| 14       | 38542-1314 |           |
| 15       | 38542-1315 |           |
| 16       | 38542-1316 |           |

Note: Solder Eye is the standard contact tail for sockets. Contact Molex for additional contact options and order numbers.

# Beau™ Power Connectors Panel Mount Plugs and Sockets

## 38540 Deep Bracket



### Features and Benefits

- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

### Electrical

Voltage: 250V  
Current: 15.0A

### Mechanical

Durability: 500 cycles

### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 150°C

### Plugs

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 38540-3704 | Yes       |
| 5        | 38540-3705 |           |
| 6        | 38540-3706 |           |
| 7        | 38540-3707 |           |
| 8        | 38540-3708 |           |
| 9        | 38540-3709 |           |
| 10       | 38540-3710 |           |
| 11       | 38540-3711 |           |
| 12       | 38540-3712 |           |
| 13       | 38540-3713 |           |
| 14       | 38540-3714 |           |
| 15       | 38540-3715 |           |
| 16       | 38540-3716 |           |

Note: Solder Hook is the standard contact tail for plugs. Contact Molex for additional contact options and order numbers.

### Sockets

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 38540-4204 | Yes       |
| 5        | 38540-4205 |           |
| 6        | 38540-4206 |           |
| 7        | 38540-4207 |           |
| 8        | 38540-4208 |           |
| 9        | 38540-4209 |           |
| 10       | 38540-4210 |           |
| 11       | 38540-4211 |           |
| 12       | 38540-4212 |           |
| 13       | 38540-4213 |           |
| 14       | 38540-4214 |           |
| 15       | 38540-4215 |           |
| 16       | 38540-4216 |           |

Note: Solder Eye is the standard contact tail for sockets. Contact Molex for additional contact options and order numbers.

# Beau™ Power Connectors Cable Mount Plugs and Sockets

## 38541

### Cable Clamp Top Cable Clamp Top with Keeper Cable Clamp Top with Latch



Cable Clamp Top shown

#### Features and Benefits

- Strain relief cable clamps can be used with round or flat cable
- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

#### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

#### Electrical

Voltage: 250V  
Current: 15.0A

#### Mechanical

Durability: 500 cycles

#### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 110°C

#### Plugs

| Circuits | Order No.       |                             |                            | Lead-free |
|----------|-----------------|-----------------------------|----------------------------|-----------|
|          | Cable Clamp Top | Cable Clamp Top with Keeper | Cable Clamp Top with Latch |           |
| 4        | 38541-5404      | 38541-5804                  | 38541-5604                 | Yes       |
| 5        | 38541-5405      | 38541-5805                  | 38541-5605                 |           |
| 6        | 38541-5406      | 38541-5806                  | 38541-5606                 |           |
| 7        | 38541-5407      | 38541-5807                  | 38541-5607                 |           |
| 8        | 38541-5408      | 38541-5808                  | 38541-5608                 |           |
| 9        | 38541-5409      | 38541-5809                  | 38541-5609                 |           |
| 10       | 38541-5410      | 38541-5810                  | 38541-5610                 |           |
| 11       | 38541-5411      | 38541-5811                  | 38541-5611                 |           |
| 12       | 38541-5412      | 38541-5812                  | 38541-5612                 |           |
| 13       | 38541-5413      | 38541-5813                  | 38541-5613                 |           |
| 14       | 38541-5414      | 38541-5814                  | 38541-5614                 |           |
| 15       | 38541-5415      | 38541-5815                  | 38541-5615                 |           |
| 16       | 38541-5416      | 38541-5816                  | 38541-5616                 |           |

Note: Solder Hook is the standard contact tail for plugs. Contact Molex for additional contact options and order numbers.

#### Sockets

| Circuits | Order No.       |                             |                            | Lead-free |
|----------|-----------------|-----------------------------|----------------------------|-----------|
|          | Cable Clamp Top | Cable Clamp Top with Keeper | Cable Clamp Top with Latch |           |
| 4        | 38541-8404      | 38541-8804                  | 38541-8604                 | Yes       |
| 5        | 38541-8405      | 38541-8805                  | 38541-8605                 |           |
| 6        | 38541-8406      | 38541-8806                  | 38541-8606                 |           |
| 7        | 38541-8407      | 38541-8807                  | 38541-8607                 |           |
| 8        | 38541-8408      | 38541-8808                  | 38541-8608                 |           |
| 9        | 38541-8409      | 38541-8809                  | 38541-8609                 |           |
| 10       | 38541-8410      | 38541-8810                  | 38541-8610                 |           |
| 11       | 38541-8411      | 38541-8811                  | 38541-8611                 |           |
| 12       | 38541-8412      | 38541-8812                  | 38541-8612                 |           |
| 13       | 38541-8413      | 38541-8813                  | 38541-8613                 |           |
| 14       | 38541-8414      | 38541-8814                  | 38541-8614                 |           |
| 15       | 38541-8415      | 38541-8815                  | 38541-8615                 |           |
| 16       | 38541-8416      | 38541-8816                  | 38541-8616                 |           |

Note: Solder Eye is the standard contact tail for sockets. Contact Molex for additional contact options and order numbers.

# Beau™ Power Connectors Cable Mount Plugs and Sockets

## 38541

### Cable Clamp End



#### Features and Benefits

- Strain relief cable clamps can be used with round or flat cable
- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

#### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

#### Electrical

Voltage: 250V  
Current: 15.0A

#### Mechanical

Durability: 500 cycles

#### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 110°C

#### Plugs

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 38541-0004 | Yes       |
| 5        | 38541-0005 |           |
| 6        | 38541-0006 |           |
| 7        | 38541-0007 |           |
| 8        | 38541-0008 |           |
| 9        | 38541-0009 |           |
| 10       | 38541-0010 |           |
| 11       | 38541-0011 |           |
| 12       | 38541-0012 |           |
| 13       | 38541-0013 |           |
| 14       | 38541-0014 |           |
| 15       | 38541-0015 |           |
| 16       | 38541-0016 |           |

Note: Solder Hook is the standard contact tail for plugs. Contact Molex for additional contact options and order numbers.

#### Sockets

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 38541-3004 | Yes       |
| 5        | 38541-3005 |           |
| 6        | 38541-3006 |           |
| 7        | 38541-3007 |           |
| 8        | 38541-3008 |           |
| 9        | 38541-3009 |           |
| 10       | 38541-3010 |           |
| 11       | 38541-3011 |           |
| 12       | 38541-3012 |           |
| 13       | 38541-3013 |           |
| 14       | 38541-3014 |           |
| 15       | 38541-3015 |           |
| 16       | 38541-3016 |           |

Note: Solder Eye is the standard contact tail for sockets. Contact Molex for additional contact options and order numbers.

# Beau™ Power Connectors Cable Mount Plugs and Sockets

## 38540 Flared Hole Top



### Features and Benefits

- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

### Electrical

Voltage: 250V  
Current: 15.0A

### Mechanical

Durability: 500 cycles

### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 110°C

### Plugs

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 38540-8204 | Yes       |
| 5        | 38540-8205 |           |
| 6        | 38540-8206 |           |
| 7        | 38540-8207 |           |
| 8        | 38540-8208 |           |
| 9        | 38540-8209 |           |
| 10       | 38540-8210 |           |
| 11       | 38540-8211 |           |
| 12       | 38540-8212 |           |
| 13       | 38540-8213 |           |
| 14       | 38540-8214 |           |
| 15       | 38540-8215 |           |
| 16       | 38540-8216 |           |

Note: Solder Hook is the standard contact tail for plugs. Contact Molex for additional contact options and order numbers.

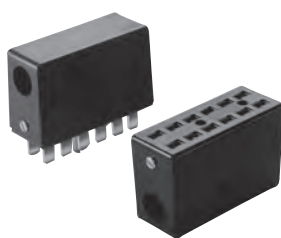
### Sockets

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 38540-9204 | Yes       |
| 5        | 38540-9205 |           |
| 6        | 38540-9206 |           |
| 7        | 38540-9207 |           |
| 8        | 38540-9208 |           |
| 9        | 38540-9209 |           |
| 10       | 38540-9210 |           |
| 11       | 38540-9211 |           |
| 12       | 38540-9212 |           |
| 13       | 38540-9213 |           |
| 14       | 38540-9214 |           |
| 15       | 38540-9215 |           |
| 16       | 38540-9216 |           |

Note: Solder Eye is the standard contact tail for sockets. Contact Molex for additional contact options and order numbers.

# Beau™ Power Connectors Cable Mount Plugs and Sockets

## 38540 Flared Hole End



### Features and Benefits

- Robust blade contacts resist damage from improper mating
- Large surface area of dual wipe female contact produces maximum current capacity
- All circuits are rated for full current load

### Reference Information

Packaging: Tray  
UL File No.: E34763  
CSA File No.: 22156  
Designed In: Inches

### Electrical

Voltage: 250V  
Current: 15.0A

### Mechanical

Durability: 500 cycles

### Physical

Housing: Phenolic  
Plug Contact: Brass  
Socket Contact: Phosphor Bronze  
Plating: Plug Contact—Tin  
Socket Contact—Tin  
Operating Temperature: 110°C

### Plugs

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 38540-6404 | Yes       |
| 5        | 38540-6405 |           |
| 6        | 38540-6406 |           |
| 7        | 38540-6407 |           |
| 8        | 38540-6408 |           |
| 9        | 38540-6409 |           |
| 10       | 38540-6410 |           |
| 11       | 38540-6411 |           |
| 12       | 38540-6412 |           |
| 13       | 38540-6413 |           |
| 14       | 38540-6414 |           |
| 15       | 38540-6415 |           |
| 16       | 38540-6416 |           |

Note: Solder Hook is the standard contact tail for plugs. Contact Molex for additional contact options and order numbers.

### Sockets

| Circuits | Order No.  | Lead-free |
|----------|------------|-----------|
| 4        | 38540-7404 | Yes       |
| 5        | 38540-7405 |           |
| 6        | 38540-7406 |           |
| 7        | 38540-7407 |           |
| 8        | 38540-7408 |           |
| 9        | 38540-7409 |           |
| 10       | 38540-7410 |           |
| 11       | 38540-7411 |           |
| 12       | 38540-7412 |           |
| 13       | 38540-7413 |           |
| 14       | 38540-7414 |           |
| 15       | 38540-7415 |           |
| 16       | 38540-7416 |           |

Note: Solder Eye is the standard contact tail for sockets. Contact Molex for additional contact options and order numbers.

Contact Information

Americas Offices..... I-2 to I-3

Molex Global Locations ..... I-5 to I-8

Global Franchised Distributor Network..... I-10 to I-24

# Americas Offices

## Corporate Headquarters

2222 Wellington Court  
Lisle, IL 60532  
Phone: 630-969-4550  
Fax: 630-969-1352

## Northwest Region

**Regional Office**  
920 Hillview Court  
Suite 200  
Milpitas, CA 95035  
Phone: 408-946-4700  
Fax: 408-946-5386

**District Office**  
4000 SW Kruse Way Place  
Building #1, Suite 220  
Lake Oswego, OR 97035  
Phone: 503-697-3193

## Midwest Region

**Regional Office**  
2222 Wellington Court  
Lisle, IL 60532  
Phone: 630-969-4747  
Fax: 630-512-8622

**District Office**  
4620 West 77th  
Suite 280  
Edina, MN 55435  
Phone: 952-893-9029  
Fax: 952-837-9955

## Northeast Region

**Regional Office**  
600 West Cummings Park  
Suite 6900  
Woburn, MA 01801  
Phone: 781-935-8983  
Fax: 781-932-3857

**Canada Office**  
Markham, Ontario,  
Canada L3R 0E7  
Phone: 905-944-1415  
Fax: 905-944-1422

## Southwest Region

**Regional Office**  
9111 Jollyville Road  
Suite 105  
Austin, TX 78759  
Phone: 512-345-1092  
Fax: 512-345-9805

**District Office**  
23461 South Pointe Drive  
Suite 385  
Laguna Hills, CA 92653  
Phone: 949-588-3701  
Fax: 949-588-8880

**District Office**  
9948 Hibert Street  
Suite 101  
San Diego, CA 92131  
Phone: 858-537-2400  
Fax: 858-537-2408

## Automotive Region

**Regional Office**  
2025 Taylor Road  
Auburn Hills, MI 48326  
Phone: 248-371-9700  
Fax: 248-371-9817

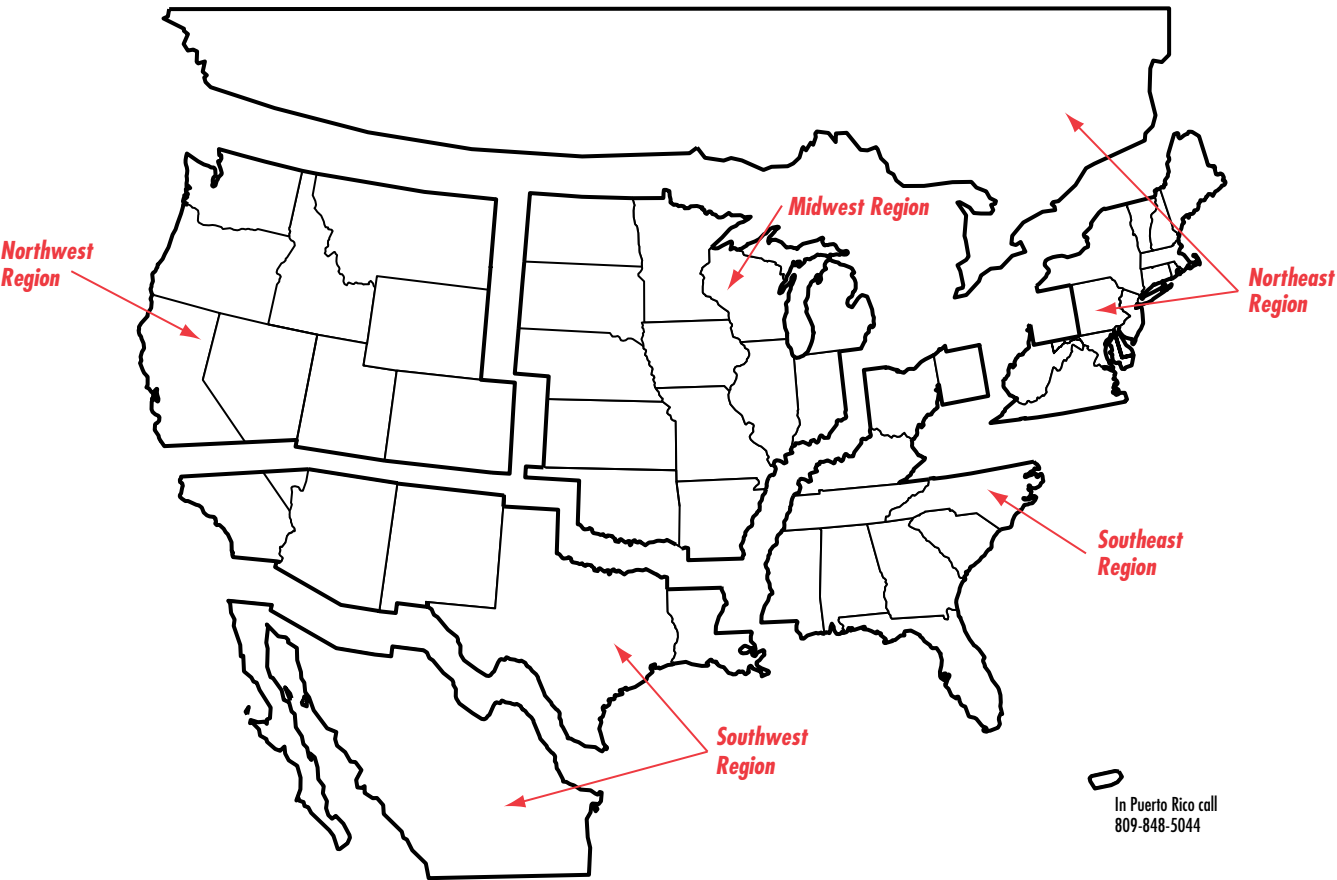
**District Office**  
729 E. Main  
Westfield, IN 46074  
Phone: 317-896-6539  
Fax: 317-896-3816

## Southeast Region

**Regional Office**  
6525 The Corners Parkway  
Suite 206  
Norcross, GA 30092  
Phone: 770-840-0800  
Fax: 770-840-9991

**District Office**  
430 Davis Drive  
Suite 120  
Morrisville, NC 27560 (Mail)  
Durham, NC 27713 (Deliveries)  
Phone: 919-991-1199  
Fax: 919-991-1533

# Americas Offices





# Molex Global Locations

## Headquarters

### Corporate and Americas Headquarters

2222 Wellington Court  
Lisle, IL 60532 USA  
Tel: 630-969-4550  
Fax: 630-969-1352

### European Headquarters

Molex Holding GmbH  
Dingolfinger Strasse 4  
81673 Munich, Germany  
Tel: 49-89-413092-0  
Fax: 49-89-401527

### Asia Pacific North Headquarters

Molex Japan Co. Ltd.  
1-5-4 Fukami-Higashi  
Yamato-City, Kanagawa  
242-8585 Japan  
Tel: 81-46-265-2336  
Fax: 81-46-265-2361

### Asia Pacific South Headquarters

Molex Far East South Management Pte Ltd.  
No. 110, International Road  
Jurong 629174, Singapore  
Tel: 65-6268-6868  
Fax: 65-6265-6044

## Molex Subsidiary and Rep List

### Australia

#### Molex ANZ.

(Australia & New Zealand)  
C/- 60-78 Abey Road  
Melton, Victoria 3337  
Australia  
Tel: 61-2-9755-4428  
Fax: 61-2-9755-4428

#### Molex Premise Networks

60-78 Abey Road  
Melton, Victoria 3337  
Australia  
Tel: 61-3-9971-7111  
Fax: 61-3-9971-7199

### Austria

#### Molex Deutschland GmbH (Sales)

2393 Sittendorf 159, Austria  
Tel: 43-2237-8163  
Fax: 43-2237-81634  
E-mail: mxaustria@molex.com

### Brazil

#### Molex Brasil Ltda.

Rua Capita Francisco Teixeira  
Nogueira #232 Bairro Agua Branca  
CEP 05037-030-Sao Paulo-SP-Brazil  
Tel: 55-11-3611-2399  
Fax: 55-11-3611-1891  
E-mail: brasil@molex.com

#### Molex Brasil Ltda.

Avenida Cupiuba 476  
Distrito Industrial  
Manaus, Amazonas Brazil  
Tel: 55-92-671-3000  
Fax: 55-92-615-2536  
E-mail: brasil@molex.com

### Canada

#### Molex Electronics Ltd.

1870 Des Sources Blvd, Suite 302  
Pointe Claire, QC  
H9R 5N4 Canada  
Tel: 514-630-1177  
Fax: 514-630-1440  
E-mail: canada@molex.com

#### Molex Electronics Ltd.

85 Select Avenue  
Scarborough, Ontario M1V 4A9  
Canada  
Tel: 416-292-1444  
Fax: 416-292-2922  
E-mail: canada@molex.com

### Czech Republic

#### Molex Czech

Prikop 6  
602 00 Brno, Czech Republic  
Tel: 420-5-45176746  
Fax: 420-5-45176747  
E-mail: mxczech@molex.com

### Denmark

#### Molex G. Ostervig A/S

Paul Bergsoes Vej 16  
2600 Glostrup, Denmark  
Tel: 45-43-431030  
Fax: 45-43-434460  
E-mail: mxdenmark@molex.com

### Central and Eastern Europe

#### Molex Deutschland GmbH

Felix-Wankel-Strasse 11  
74078 Heilbronn  
Tel: 49-7066-9555-0  
Fax: 49-7066-9555-8100  
E-mail: mxeeurope@molex.com

### Egypt

#### High Technology Systems

Building 43R, Section Six  
Zahraa Maadi Main Road,  
P.O. Box 50  
New Maadi 11742  
Cairo, Egypt  
Tel: 20-2-7491051  
Fax: 20-2-7486278  
E-mail: information@highteknofal.com

### United Kingdom (England)

#### Molex UK

Molex House, Millennium Centre  
Farnham, Surrey GU9 7XX  
England  
Tel: 44-1252-720720  
Fax: 44-1252-720721  
E-mail: mxuk@molex.com

### Finland

Äyritie 12 B  
01510 Vantaa, Finland  
Tel: 358-9-75946610  
Fax: 358-9-75946620  
E-mail: mxfinland@molex.com

### France

#### Molex France (Sales)

18 Parc Burospace  
91571 Bievres Cedex, France  
Tel: 33-1-69354900  
Fax: 33-1-69410100  
E-mail: mxfrance@molex.com

#### Molex Automotive SARI

25, Parc Burospace  
91571 Bièvres cedex, France  
Tel: 33-1-64538740  
Fax: 33-1-60194978

#### Molex Automotive SARI

(Automotive Factory)  
2 et 4 av. du President Roosevelt  
31340 Villemur-sur-Tarn  
Tel: 33-5-62220333  
Fax: 33-5-61092086



# Molex Global Locations

## Germany

### **Molex Deutschland GmbH (Sales)**

Felix-Wankel-Strasse 11  
74078 Heilbronn-Biberach, Germany  
Tel: 49-7066-9555-0  
Fax: 49-7066-9555-8100  
E-mail: mxgermany@molex.com

### **Molex Elektronik GmbH (Automotive Factory)**

Grashofstrasse 17  
76275 Ettlingen, Germany  
Tel: 49-7243-3350  
Fax: 49-7243-31420

### **Molex GmbH (Telecom Factory)**

Felix-Wankel-Strasse 9  
74078 Heilbronn-Biberach, Germany  
Tel: 49-7066-30-0  
Fax: 49-7066-30-120

## Hong Kong

### **Molex Hong Kong/China Ltd**

Unit 1715-23A, Level 17  
Landmark North  
39 Lung Sum Avenue  
Sheung Shui, New Territories  
Hong Kong  
Tel: 852-2637-3111  
Fax: 852-2637-5990

## Hungary

### **Molex Deutschland GmbH (Sales)**

Szent I. park 15  
1137 Budapest, Hungary  
Tel: 36-1-359-9765  
Fax: 36-1-288-0537  
E-mail: mxhungary@molex.com

## India

### **Molex (India) Ltd.**

Plot No. 6 (A)  
Sadaramangala Industrial Area  
Kadugodi  
Bangalore 560 067, India  
Tel: 91-80-41293500/01/02/03  
Fax: 91-80-41293600/01

### **Molex Mafatlal Micron Ltd.**

C-7 & 8, GIDC Electronic Estate  
K-Road, Sector 25  
Gandhinagar Gujarat 382 025  
Tel: 91-79-23225338  
Fax: 91-79-23226906

## Ireland

### **Molex Ireland Ltd. (Factory)**

Site 3, Shannon Industrial Est.  
Shannon Free Airport  
Shannon, Ireland  
Tel: 353-61-702400  
Fax: 353-61-702700

### **Molex Ireland (Sales)**

62 Pembroke Road  
Ballsbridge  
Dublin 4, Ireland  
Tel: 353-1-6675511  
Fax: 353-1-6675512  
E-mail: mxireland@molex.com

### **Molex Millstreet**

(Cable Assemblies Factory)  
Mount Leader Industrial Est  
Millstreet Town  
County Cork, Ireland  
Tel: 353-29-70252  
Fax: 353-29-70648

## Italy

### **Molex Italy**

Sede Sec. of Molex BV  
(Italian Sales Branch)  
Via Roma, 108  
Cassina Plaza  
20060 Cassina De' Pecchi  
Milano, Italy  
Tel: 39-02-950551  
Fax: 39-02-95055250  
E-mail: mxitaly@molex.com

### **Molex Zetronic SPA (Factory)**

Via Nona Strada, 29  
35129 Padova, Italy  
Tel: 39-049-8072071  
Fax: 39-049-8072548

## Japan

### **Molex Japan Co. Ltd.**

1-5-4 Fukami-Higashi  
Yamato-City, Kanagawa  
242-8585 Japan  
Tel: 81-46-265-2324  
Fax: 81-46-265-2366

## Korea

### **Molex Korea Co. Ltd.**

726-3, Wonsi-Dong  
Ansan City, Gyunggi-Do  
Republic of Korea, 425-090  
Tel: 82-31-492-9000  
Fax: 82-31-491-4364

### **Seoul Office, Molex Korea**

#303 Shinsong Bldg,  
25-4, Yoido-Dong, Youngdungpo-Ku  
Seoul, Korea, 150-010  
Tel: 82-2-780-2333  
Fax: 82-2-780-3989

## Malaysia

### **Molex Malaysia Sdn Bhd**

2607 Jalan Perusahaan  
Kawasan Perindustrian Prai  
13600 Prai, Penang Malaysia  
Tel: 60-4-507-8788  
Fax: 60-4-507-8140

### **Molex (Malaysia) Sdn Bhd**

73A Jalan USJ21/10  
47630 Subang Jaya  
Selangor Darul Ehsan  
Tel: 603-80239980/81/82  
Fax: 603-80231052

### **Molex Malaysia Sdn. Bhd. (JB)**

No. 8A, Jalan Dedap 17  
Taman Johor Bahru, Johor,  
West Malaysia  
Tel: 60-7-356-2371  
Fax: 60-7-356-2384

## Mexico

### **Molex De Mexico, S.A. De C.V.**

Av. De La Productividad #305  
Parque Industrial Guadalajara  
Guadalajara, Jalisco, Mexico  
Tel: 52-36-68-14-00  
Fax: 52-36-68-14-95

## Netherlands (Benelux)

### **Molex BV**

Luchthavenweg 38  
5657 EB Eindhoven  
The Netherlands  
Tel: 31-40-2958201  
Fax: 31-40-2958206  
E-mail: mxnetherlands@molex.com

### **Molex Interconnect GmbH**

(European Distribution Center)  
Luchthavenweg 38  
5657 EB Eindhoven  
The Netherlands  
Tel: 31-40-2958295  
Fax: 31-40-2958290

## Norway

### **Molex G. Knutsen AS**

Brynsveien 16  
Postboks 6104 Etterstad  
0667 Oslo, Norway  
Tel: 47-23-039100  
Fax: 47-23-039149  
E-mail: mxnorway@molex.com

# Molex Global Locations

## People's Republic of China

### Beijing (Sales)

Room 1311, Tower B, COFCO Plaza  
No. 8, Jian Guo Men Nei Street  
Beijing 100005  
People's Republic of China  
Tel: 86-10-6526-9628  
Fax: 86-10-6526-9730

### Chengdu (Sales)

Room 806A, Tower A World  
No. 17, 2nd Section  
South of 1st Cycle Way  
Chengdu City 610016  
People's Republic of China  
Tel: 86-28-8548-0463  
Fax: 86-28-8548-0461

### Dalian (Sales)

12F, Sen Mao Building  
147 Zhongshan Road,  
Si Gan Area  
Dalian 116011  
People's Republic of China  
Tel: 86-411-8367-7245  
Fax: 86-411-8367-7250

### Dongguan Plant 1

Molex Interconnect  
(Dongguan) Co., Ltd.  
C Zone, Ming Hua Road,  
No. 3, Industrial Area Juzhou,  
Shijie Town, Dongguan City,  
Guangdong Province 523298  
People's Republic of China  
Tel: 86-769-8631-0328  
Fax: 86-769-8631-0323

### Dongguan Plant 2

Molex Interconnect  
(Dongguan) Co., Ltd.  
C Zone, Ming Hua Road,  
No. 3, Industrial Area Juzhou,  
Shijie Town, Dongguan City,  
Guangdong Province 523298  
People's Republic of China  
Tel: 86-769-8630-2328  
Fax: 86-769-8631-0378

### Guangzhou (Sales)

Room 1208, GIE Tower  
403 Huan Shi East Road, Guangzhou City  
People's Republic of China  
Tel: 86-20-8732-2407  
Fax: 86-20-8732-2482

### Molex Interconnect (Shanghai) Co., Ltd.

No. 889, Ying Lun Road  
WaiGaoQiao Free Trade Zone  
Pudong, Shanghai 200131  
People's Republic of China  
Tel: 86-21-5048-0889  
Fax: 86-21-5048-0011

### Molex Premise Networks - Sales

Room 1608, Hongqiao Silver City  
No. 933, Zhongshan West Road  
Shanghai 200051  
People's Republic of China  
Tel: 86-21-5111-3418  
Fax: 86-21-5111-3419

### Nanjing (Sales)

Room C5C6, 22 Floor  
Shang Mao Century Plaza  
No. 49 Zhongshan South Road  
Nanjing 210005  
People's Republic of China  
Tel: 86-25-8689-0051  
Fax: 86-25-8689-0056

### Qingdao (Sales)

Room 1315, Crowne Plaza  
No. 76, Xiang Gang Zhong Road  
Qingdao 266071  
People's Republic of China  
Tel: 86-532-8576-6175  
Fax: 86-532-8576-4999

### Shenzhen (Sales)

3/F Union Cyber Building  
No. 1 Huanghuai Road  
Futian Free Trade Zone  
Shenzhen, 518038  
People's Republic of China  
Tel: 86-755-2518-5819  
Fax: 86-755-2518-5810

### Suzhou (Sales)

Room 901,  
Century Financial Tower,  
No. 1 Suhua Road  
Suzhou Industrial Park, Suzhou  
Jiangsu 215021  
People's Republic of China  
Tel: 86-512-6761-5521  
Fax: 86-512-6761-4610

### Tianjin (Sales)

Room 2401, International Building,  
No. 75 Nanjing Road,  
Heping District,  
Tianjin 300050  
People's Republic of China  
Tel: 86-22-2332-1717  
Fax: 86-22-2311-9629

### Xiamen (Sales)

Unit 11, 18/F The Bank Center,  
No. 189 XiaHe Road, Xiamen  
Fujian 361003  
People's Republic of China  
Tel: 86-592-239-9515  
Fax: 86-592-239-9519

## Philippines

### Molex Far East

South Management Pte Ltd  
Unit 1007 South Center Tower  
2206 Market St.  
Madrigal Business Park  
Alabang, Muntinlupa City,  
Metro Manila  
Philippines  
Tel: 632-7724608/4610/4612  
Fax: 632-7724611

## Poland

### Molex Polska Sp zo.o.

(Polish Sales Branch)  
Zytunia 15/13  
01-014 Warsaw, Poland  
Tel: 48-22-8621481  
Fax: 48-22-8623143  
E mail: mxpolska@molex.com

### Moltech Polska Sp zo.o. (Factory)

ul. Poznanska 23  
69 200 Sulecin, Poland  
Tel: 48-95-7560-100  
Fax: 48-95-7560-186

## Romania

### Molex Deutschland GmbH

Gabriel Sajter  
str. Timis, nr. 9, sc.C., ap.19  
300650 Timisoara, Romania  
Tel: 40-356809118  
Fax: 40-356809118  
E-mail: gabriel.sajter@molex.com

## Russia/Ukraine/Azerbaijan, Baltic Countries, Belarus, Moldavia

### Molex Russia

Commercial Tower "Meridian"  
Smolnaya Street 24/D, 7th Floor  
125445 Moscow, Russia  
Tel: 7-495-2588444  
Fax: 7-495-2588444  
E-Mail: mxrussia@molex.com

## Serbia/Bulgaria, Croatia, Macedonia, Montenegro, Slovenia

### Zoran Rabrenovic

Danice Markovic 2  
11000 Belgrade, Serbia  
Tel: 381-11-3046124  
Fax: 381-11-3046124  
Email: mxserbia@molex.com

# Molex Global Locations

## Singapore

### **Molex Singapore Pte. Ltd.**

No. 110, International Road  
Singapore 629174  
Tel: 62-6268-6868  
Fax: 65-6264-2745

## Slovak Republic

### **Molex Slovakia, a.s. (Factory)**

Kechnec 265  
044 58 Kechnec  
Slovak Republic  
Tel: 421-55-7273111  
Fax: 421-55-7273100

## South Africa

### **Molex (Pty.) Ltd.**

Cnr. Gazelle Avenue and  
Lechwe Street  
Corporate Park, Halfway House  
Midrand, South Africa 1685  
Tel: 27-11-3144700  
Fax: 27-11-3144681  
E-mail: mxsafrica@molex.com

## Spain

### **Molex Spain**

Valencia, 307, 1-3  
08009 Barcelona, Spain  
Tel: 34-93-4766880  
Fax: 34-93-4766881  
E-mail: mxspain@molex.com

## Sweden

### **Molex Sweden**

Travgatan 88 Box 2007  
194 27 Upplands Väsby, Sweden  
Tel: 46-8-59421100  
Fax: 46-8-59421120  
E-mail: mxsweden@molex.com

## Taiwan

### **Molex Taiwan Ltd.**

100-3 Shia-Kwei-Rou-Shan  
Tamshui, Taipei Hsien Taiwan  
Republic of China  
Tel: 886-2-2620-2300  
Fax: 886-2-2622-3124

## Thailand

### **Molex (Thailand) Co. Ltd.**

No. 71/4 Moo 5 Bangpakong Ind. Pk  
Bangna-Trad Road, KM52,  
Tambol Takarm  
Bangpakong, Chachoengsao 24130  
Thailand  
Tel: 66-38-573020  
Fax: 66-38-573023

## Turkey, Greece and Middle East

### **Molex Turkiye**

Edin & Suner Plaza  
Meydan Sok No. 14 Kat: 6B  
Akattlar, 34335  
Istanbul, Turkey  
Tel: 90-212-351-0930  
Fax: 90-212-351-09 25  
E-mail: mxturkey@molex.com



# Global Franchised Distributor Network

## North America

### Canada

#### Alberta

##### Calgary

###### Arrow Electronics Components

Unit D, 2151-32 Street N.E.  
Calgary, AB T1Y 7G3  
Tel: 403-735-2800  
Fax: 403-259-8699  
Toll-free: 800-833-3557  
E-mail: feedback@arrow.com

###### Avnet Electronics Marketing

112, 2635 37th Ave N.E.  
Calgary, AB T1Y 5Z6  
Tel: 403-291-5510  
Fax: 403-291-5696  
Toll-free: 800-408-8353  
E-mail: customer.care@avnet.com

###### Edmonton Arrow Electronics Components

10630 172 Street  
Edmonton, AB T5S 1H8  
Tel: 780-483-6266  
Fax: 780-484-8926  
Toll-free: 800-833-3557  
E-mail: feedback@arrow.com

#### Redmond, WA

**TTI, Inc.**  
11121 Willows Road NE, Suite 130  
Redmond, WA 98052  
Tel: 425-882-0291  
Fax: 425-883-3776  
Toll-free: 800-225-5884

#### British Columbia

##### Vancouver

###### Avnet Electronics Marketing

8610 Commerce Court  
Burnaby, B.C. V5A 4N6  
Tel: 604-420-4101  
Fax: 604-420-5376  
Toll-free: 800-408-8353  
E-mail: customer.care@avnet.com

###### Arrow Electronics Components

8521 Commerce Court  
Burnaby, B.C. V5A 4N3  
Tel: 604-421-2333  
Fax: 604-421-5030  
Toll-free: 800-833-3557  
E-mail: feedback@arrow.com

#### Redmond, WA

**TTI, Inc.**  
11121 Willows Road NE, Suite 130  
Redmond, WA 98052  
Tel: 425-882-0291  
Fax: 425-883-3776  
Toll-free: 800-225-5884

#### Saskatchewan

##### Redmond, WA

**TTI, Inc.**  
11121 Willows Road NE, Suite 130  
Redmond, WA 98052  
Tel: 425-882-0291  
Fax: 425-883-3776  
Toll-free: 800-225-5884

#### Nova Scotia

##### Halifax

###### Arrow Advantage Canada

155 Chain Lake Drive, Suite 27  
Halifax, N.S. B3S 1B3  
Tel: 800-833-3557  
Fax: 902-450-2657  
Toll-free: 800-833-3557  
E-mail: feedback@arrow.com

#### Ontario

##### London

###### Simcona Electronics of Canada

3422 Wonderland Road,  
London, ON N6L 1A7  
Tel: 519-652-1130  
Fax: 519-652-1131  
Toll-free: 800-567-3815  
E-mail: info@simcona.ca

###### Newark InOne

331 Consortium Court  
London, ON N6E 2S8  
Tel: 519-685-4280  
Fax: 519-685-7104  
Toll-free: 800-463-9275  
E-mail: london@newarkinone.com

#### Ottawa

###### Arrow Electronics Components

84 Hines Road, Suite 100  
Kanata, ON K2K 3G3  
Tel: 613-287-3211  
Fax: 613-287-3250  
Toll-free: 800-833-3557  
E-mail: feedback@arrow.com

###### Avnet Electronics Marketing

190 Colonnade Rd  
Kanata, ON K2E 7J5  
Tel: 613-226-1700  
Fax: 613-226-1184  
Toll-free: 800-408-8353  
E-mail: customer.care@avnet.com

#### Toronto

###### Arrow Electronics Components

171 Superior Boulevard  
Mississauga, ON L5T 2L6  
Tel: 905-565-4405  
Fax: 905-837-3938  
Toll-free: 800-833-3557  
E-mail: feedback@arrow.com

###### Avnet Electronics Marketing

6705 Millcreek Drive  
Mississauga, ON L5N 5R9  
Tel: 905-812-4400  
Fax: 905-812-4459  
Toll-free: 800-408-8353  
E-mail: customer.care@avnet.com

###### \* Gould Fasteners Ltd.

6209 Northwest Drive  
Mississauga, ON L4V 1P6  
Tel: 905-677-8253  
Fax: 905-677-8767  
Toll-free: 800-267-8997  
E-mail: email@gouldfast.ca

###### Heilind Electronics

275 Renfrew Drive, Suite 102  
Markham, ON L3R 0C8  
Tel: 905-752-1270  
Fax: 905-752-1273  
Toll-free: 866-290-9280  
E-mail: cansales@heilind.com

###### Newark InOne

6375 Dixie Road, Suite 202  
Mississauga, ON L5T 2E7  
Tel: 905-670-2888  
Fax: 905-670-1019  
Toll-free: 800-463-9275  
E-mail: toronto@newarkinone.com

###### Sager Electronics

151 Superior Blvd, Suite 22  
Mississauga, ON L5T 2L1  
Tel: 905-677-6124  
Fax: 905-677-6127  
Toll-free: 800-724-3780  
E-mail: sagerinfo@sager.com

###### Simcona Electronics of Canada

989 Derry Road East, Suite 403  
Mississauga, ON L5T 2J8  
Tel: 800-567-3815  
Fax: 519-652-1131  
E-mail: info@simcona.ca

###### TTI Electronics

690 Rowntree Dairy Road  
Woodbridge, ON L4L 5T7  
Tel: 905-850-3003  
Fax: 905-850-4442  
Toll-free: 800-225-5884  
E-mail: information@ttiinc.com

###### \* Wes-Garde Components Group, Inc.

6740 Davand Drive, #2  
Mississauga, ON L5T 2K9  
Tel: 905-670-3100  
Fax: 905-670-3107  
Toll-free: 800-275-7090  
E-mail: onsales@wesgarde.com

#### Quebec

##### Montreal

###### Arrow Electronics Components

19180 Trans-Canada Highway  
Baie d'Urfe, QC H9X 3S4  
Tel: 514-428-5250  
Fax: 514-428-1652  
Toll-free: 800-833-3557  
E-mail: feedback@arrow.com

###### Avnet Electronics Marketing

7575 Route Transcanadienne, Ste 600  
St-Laurent, QC H4T 1V6  
Tel: 514-335-1000  
Fax: 514-335-2481  
Toll-free: 800-408-8353  
E-mail: customer.care@avnet.com

\*Authorized Molex Industrial Distributor

# Global Franchised Distributor Network

## North America

### Canada (cont)

**Newark InOne**  
1870 Sources Blvd, Suite 300  
Pointe-Claire, QC H9R 5N4  
Tel: 514-426-6336  
Fax: 514-426-6327  
Toll-free: 800-463-9275  
E-mail: montreal@newarkinone.com

**Simcona Electronics of Canada**  
278 Labrosse  
Pointe-Claire, QC H9R 5L8  
Tel: 514-693-1771  
Fax: 514-693-1605  
Toll-free: 800-565-2811  
E-mail: montreal-info@simcona.ca

**TTI Electronics**  
1868 Sources Blvd, Suite 318  
Pointe-Claire, QC H9R 5R5  
Tel: 514-426-1212  
Fax: 514-426-1409  
Toll-free: 800-225-5884  
E-mail: information@ttiinc.com

## United States

### Nationally Franchised Distributors

**Arrow**  
Tel: 800-833-3557  
E-mail: molexsupport@arrow.com

**Avnet Electronics Marketing**  
Tel: 800-408-8353  
E-mail: avnet\_em\_webmaster@ims.avnet.com

**Force Electronics**  
Tel: 877-588-9071  
E-mail: email@force-elec.com

**Heilind Electronics**  
Tel: 877-588-9071  
E-mail: contact@heilind.com

**Sager Electronics**  
Tel: 800-SAGER-800  
800-724-3780  
E-mail: sagerinfo@sager.com

**TTI**  
Tel: 800-CALL-TTI  
800-225-5884  
E-mail: quotes@ttiinc.com

### Locally Franchised Distributors

**Carlton Bates**  
Tel: 866-600-6040  
E-mail: cbsales@carlton-bates.com

**NEP**  
Tel: 800-284-7470  
E-mail: ilsales@nepelectronics.com

**Radar**  
Tel: 800-282-2524  
E-mail: natej@radarinc.com

**Sub-Sem**  
Tel: 800-435-6130  
E-mail: sales@subsem.com

### Catalog Distributors

**Mouser**  
Tel: 800-346-6873  
E-mail: sales@mouser.com

**Newark**  
Tel: 800-4-NEWARK  
800-463-9275

### Catalog Distributors (via Waldom)

**Allied**  
Tel: 800-433-5700

**Digi-Key**  
Tel: 800-344-4539

### Fiber Optics Distributors

**FIS**  
Tel: 800-500-0347  
E-mail: fis@borg.com

**Fiber Optic Center**  
Tel: 800-473-4237  
E-mail: sales@focenter.com

**Fiber Solutions**  
Tel: 800-743-4237  
E-mail: info@fibersinc.com

### Industrial Products Distributors

**Askew Hardware**  
2920 Supply Avenue  
Commerce, CA 90040  
Tel: 800-322-7539  
E-mail: mbrown@askewhardware.com

**Babsco Supply**  
2410 South Main Street  
Elkhart, IN 46515  
Tel: 800-654-4849  
E-mail: appetit@babsco.com

**Beyond Components**  
5 Carl Thompson Road  
Westford, MA 01886  
Tel: 800-971-4242  
E-mail: sales@beyondc.com

**Bisco Industries**  
1500 North Lakeview Ave.  
Anaheim, CA 92807  
Tel: 800-323-1232  
E-mail: info@biscoind.com

**Electrical Accessories**  
11033 Lin Valle Drive  
St. Louis, MO 63123  
Tel: 800-878-1515  
E-mail: gina@electricalaccessories-stl.com

**Electro-Matic Products, Inc**  
23409 Industrial Park Ct  
Farmington Hills, MI 48335  
Tel: 248-478-1182  
E-mail: ecustomerservice@electro-matic.com

**Electronic Industries**  
19 East Irving Avenue  
Oshkosh, WI 54901  
Tel: 800-558-0222  
E-mail: karll@electronicind.com

**Lake-View Electronics**  
1054 E Pioneer Road  
Grafton, WI 53024  
Tel: 800-686-8439  
E-mail: sales@lvelectronics.com

**Madison Electric**  
3185 Van Dyke  
Warren, MI 48093  
Tel: 586-825-0150  
E-mail: info@madisonelectric.com

**Marsh Electronics**  
1563 South 101st Street  
Milwaukee, WI 53214  
Tel: 414-475-6000  
E-mail: sales@marshelectronics.com

# Global Franchised Distributor Network

## North America/South America/Europe

### United States (cont)

#### Industrial Products Distributors (cont)

**MPAQ Electronics**

4850 Wright Road, Suite 150  
Stafford, TX 77477

Tel: 866-366-4672

E-mail: info@mpaquelectronics.com

**Nedco**

1169 Knollwood Circle  
Anaheim, CA 92801

Tel: 800-605-2323

E-mail: netsales@nedcoelectronics.com

**Nelco**

22 Riverside Drive  
Pembroke, MA 02359  
Tel: 800-346-3526

E-mail: info@nelcoproducts.com

**Standard Electric**

2650 Trautner Drive  
Saginaw, MI 48603

Tel: 989-497-2100

E-mail: info@standardelectricco.com

**Standard Electric Supply**

222 North Ember Lane  
Milwaukee WI 53201

Tel: 800-776-8222

E-mail: mfelker@sescowi.com

**Wes-Garde Components**

190 Elliott Street  
Hartford, CT 06114

Tel: 800-554-8866

E-mail: sales@wesgarde.com

**Winar/Number One Sales**

3623 Brecksville Road  
Richfield, OH 44286

Tel: 800-237-1947

E-mail: sales@winar.com

**STARs Cable Assembly Partners**

Arrow Cable Assembly Services

Avnet Physical Value Added Services

Buse Interconnect Products

Cable-Comm Technologies

Maverick Electronics

NEP Electronics

Sub Sem Electronics

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## South America

### Brazil

**Avnet do Brasil**

R. Luis Gois, 1205 - 2 andar  
04043-300 - São Paulo - SP

Tel : 55-11-5079-2150

Fax : 55-11-5079-2160

Email: rose.cetrone@avnet.com

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## Europe

### Austria

**Avnet Time**

Diefenbachgasse 35/2  
A-1150 Wien

Tel: 43-1-8 66-42-300

Fax: 43-1-8-66-42-350

E-mail: TimeAustria@avnet.com

**Burisch Elektronik GmbH**

Leopoldauer Str. 29  
A-1210 Wien

Tel: 43-1-277-200

Fax: 43-1-277-202-77

E-mail: ma@beb.co.at

**Farnell InOne**

Keltenring 14,  
82041 Oberhaching

Germany

Tel: 49-89-61-393939

Fax: 49-89-61-355901

E-mail: sales@farnellinone.com

**Rutronik Elektronische Bauelemente GmbH**

Waidhausenstraße 19  
Top 10

A-1140 Wien

(with office in Wels)

Tel: 43-1-4-19-65-50-0

Fax: 43-1-4-19-65-50-33

E-mail: rutronik\_a@rutronik.com

**SPOERLE**

A Division of Arrow Central Europe

Landstraßer Hauptstraße 97-101/ 1/4/A

A-1030 Wien

(with office in Dornbirn)

Tel: 43-1-3-60-46-0

Fax: 43-1-3-60-46-90

E-mail: vertrieb.wien@spoerle.com

**TTI Electronics Austria GmbH**

Amalienstraße 48

Top 4

A-1130 Wien

Tel: 43-1-8-79-85-90-0

Fax: 43-1-8-79-85-90-10

E-mail: sales.vienna@at.ttiinc.com

**Fiber Optics Distributors****0.3 dB la logistique de la Fibre Optique**

27, rue du Général de Gaulle BP 12

95640-Marines-France

Tel: 33-0-1-30-30-92-03

Fax: 33-0-1-30-39-99-03

E-mail: contact@03db.com

# Global Franchised Distributor Network

## Europe (cont)

### Belgium and Luxembourg

#### AVNET TIME

Kouterveldstraat 20,  
1831 Diegem,  
Belgium  
Tel: 32-27-09-90-00  
Fax: 32-27-09-98-01  
E-mail: TimeBE@Avnet.com

#### Farnell InOne

Zonnebaan 33, 3606 CH Maarsen,  
Netherlands  
Tel: 32-32-27-36-47  
Fax: 32-32-27-36-48  
E-mail: sales@farnellinone.com

#### SPOERLE

A Division of Arrow Central Europe  
Keiberg II,  
Minervastraat 14/B2,  
1930 Zaventem, Belgium  
Tel: 32-27-25-46-60  
Fax: 32-27-25-45-11  
E-mail: SalesOffice.Brussels@spoerle.com

#### TTI Inc.

Office Benelux  
ESP 210, 5633 AC Eindhoven  
The Netherlands  
Tel: 31-40-290-16-16  
Fax: 31-40-290-16-10  
E-mail: sales.benelux@nl.ttiinc.com

### Denmark

#### Farnell InOne

Marielundvej 48 D, 2730 Helev,  
Tel: 45-44-536644  
Fax: 45-44-536606  
E-mail: sales@farnellinone.com

#### Molex G Oestervig A/S

Paul Bergsoes Vej 16  
2600 Glostrup  
Tel: 45-43-431030  
Fax: 45-43-434460

### Finland

#### Arrow Finland

Kalkkipellontie 4  
FIN-02650 Espoo  
P.O.Box 280, FIN-02601 Espoo  
Tel: 358-9-476660  
Fax: 358-9-47666356  
Tiina Weckman:  
E-mail: tweekman@arrownordic.com  
Direct: 358-9-47666-431

#### Farnell InOne

Kirkinkylantie 3B,  
00700 Helsinki  
Tel: 658-9345-5400  
Fax: 358-9345-5411  
E-mail: sales@farnellinone.com

#### Intotel Oy

P.O. Box 125  
Kutojantie 4  
02631 Espoo  
Tel: 358-9-521300  
Fax: 358-9-755381  
E-mail: Timo.Tikkalahti@intotel.fi

### France

#### Arrow Electronique

21 rue du Jura  
Silic 585  
94663 RUNGIS CDX  
Tel: 33-1-49-78-49-00  
Fax: 33-1-41-80-96-30  
E-mail: tcourette@arrowfrance.com

#### Farnell In One

81-83 rue H. Depagneux  
BP 60426 Limas  
69654 VILLEFRANCHE/SAONE  
Tel: 33-4-74-68-99-99  
Fax: 33-4-74-68-99-90  
E-mail: sales@farnellinone.com

#### Radiospares

ZA La Vatine  
Rue Norman King  
60031 BEAUVAIS CDX  
Tel: 33-825-034-034  
Fax: 33-825-345-000  
E-mail: question.mail@rs-components.com

#### TTI

Le Voltaire  
1 avenue Léo LaGrange  
19100 Brive la Gaillarde  
Tel: 33-5-55-92-92-93  
Fax: 33-5-55-92-91-90  
E-mail: fabien.carre@fr.ttiinc.com

#### Avnet Time

Zae des Glaises  
6/8, rue Ambroise Croizat  
91127 PALAISEAU CDX  
Tel: 33-1-64-47-91-00  
Fax: 33-1-64-47-91-50  
E-mail: dominique.mailleret@avnet.com

#### Mateleco

ZAI des Bruyères  
3 avenue Le Verrier  
BP 116  
78192 TRAPPES CDX  
Tel: 33-1-30-13-73-80  
Fax: 33-1-30-13-73 99  
E-mail: bernard.franchet@mateleco.com

#### Rutronik

6 mail de l'Europe  
78170 La CELLE ST CLOUD  
Tel: 33-1-30-08-33-00  
Fax: 33-1-30-08-33-90  
E-mail: vramon@rutronik.com

#### Fiber Optics Distributors

##### 0.3 dB la logistique de la Fibre Optique

27, rue du Général de Gaulle BP 12  
95640-Marines-France  
Tel: 33-1-30-30-92-03  
Fax: 33-1-30-39-99-03  
E-mail: contact@03db.com

# Global Franchised Distributor Network

## Europe (cont)

### Germany

#### Avnet Time Munich

Gruber Straße 60 c  
85586 Poing  
Tel: 49-8121/7-77-03  
Fax: 49-8121/77-7-535  
E-mail: TimeGermany@Avnet.com

#### Deltron Components GmbH

Dieselstr. 11  
71332 Waiblingen  
Tel: 49-7151-95-300  
Fax: 49-7151-18-162  
E-mail: Info@deltron-components.de

#### Farnell InOne

Keltenring 14,  
82041 Oberhaching Germany  
Tel: 49-89-61-39-39-39  
Fax: 49-89-61-35-59-01  
E-mail: sales@farnellinone.com

#### MC Technologies GmbH

Ahrensburgerstraße 8  
30659 Hannover  
Tel: 49-511-67-69-99-0  
Fax: 49-511-67-69-99-150  
E-mail: zerber@mc-technologies.net

#### RS Components GmbH

Hessenring 13b  
64546 Morfelden-Walldorf  
Tel: 49-6105-401234  
Fax: 49-6105-401109  
E-mail: rs-gmbh@rs-components.com

#### Rutronik GmbH

Industriestr. 2  
75224 Ispringen/Pforzheim  
Tel: 49-7231-801-525  
Fax: 49-7231-801-499  
E-mail: alexander\_martini@rutronik.com

#### SPOERLE

A Division of Arrow Central Europe  
Max-Planck-Strasse 1-3  
63303 Dreieich  
Tel.: 49-6103-3048645  
Fax: 49-6103-3048427  
E-mail: spoerle@spoerle.com

#### TTI Inc. Deutschland

Ganghoferstr. 34  
82216 Maisach-Gernlinden  
Tel: 49-8142-6680-0  
Fax: 49-8142-6680-199  
E-mail: sales@de.ttiinc.com

#### Fiber Optics Distributors

**0.3 dB la logistique  
de la Fibre Optique**  
27, rue du Général de Gaulle BP 12  
95640-Marines-France  
Tel: 33-0-1-30-30-92-03  
Fax: 33-0-1-30-39-99-03  
E-mail: contact@03db.com

### Greece

#### Arrow Electronics Hellas

Elia Eliou 31  
Athens 11743  
Tel: 30-210-9020165  
Fax: 30-210-9022118  
E-mail: cdanos@arrowgr.com

#### Yiannikos Chr SA

4, Salaminos Str.,  
141 23 Likovrissi  
Athens  
Tel: 0030-210-28-51-772  
Fax: 0030-210-28-51-771  
E-mail: info@giannikos.com

#### Fiber Optics Distributors

**0.3 dB la logistique  
de la Fibre Optique**  
27, rue du Général de Gaulle BP 12  
95640-Marines-France  
Tel: 33-0-1-30-30-92-03  
Fax: 33-0-1-30-39-99-03  
E-mail: contact@03db.com

### Ireland

#### Abacus Deltron

Foxhills Industrial Park  
Scunthorpe  
DN15 8QJ  
Tel: 44-1724-281770  
Fax: 44-1724-281650  
E-mail: irishsales@deltron-uk.com

#### Abacus Polar Ireland

Mongret College Business Park,  
Mongret, Limerick  
Tel: 353-6148-0166  
Fax: 353-6130-2777

#### Amtech

Unit 19C  
Rosemount Business Park  
Rosemount Park Drive  
Ballycoolin Road  
Dublin 15  
Tel: 353-1-821-6444  
Fax: 353-1-821-6355

#### Arrow Electronics Ltd

Block 10A, Beckett Way  
Parkwest Business Park  
Dublin 12  
Tel: 353-1-6298700  
Fax: 353-1-6298701

#### Avnet Time

Avnet House  
Rutherford Close  
Meadway  
Stevenage  
Herts SG1 2EF, UK  
Tel.: 44-1438-788400  
Fax: 44-1438-788240  
E-mail: TimeUK@Avnet.com

#### Farnell InOne

3-5 Goffon Court,  
Jamestown Road,  
Finglas, Dublin 11 Ireland  
Tel: 353-1-8309277  
Fax: 353-1-8309016  
E-mail: sales@farnellinone.com

#### TTI Ireland

2 Cliveden Office Village  
Lancaster Road  
Cressex Business Park  
High Wycombe  
Bucks, United Kingdom  
HP123YZ  
Tel: 44-1-494-460-000  
Fax: 44-1-494-460-090  
E-mail: sales.london@uk.ttiinc.com

#### Fiber Optics Distributors

**0.3 dB la logistique  
de la Fibre Optique**  
27, rue du Général de Gaulle BP 12  
95640-Marines-France  
Tel: 33-0-1-30-30-92-03  
Fax: 33-0-1-30-39-99-03  
E-mail: contact@03db.com

# Global Franchised Distributor Network

## Europe (cont)

### Italy

**Abacus ECC Deltron**

Via Volta 54  
20090 Cusago (MI)  
Tel: 39-02-90-39-71  
Fax: 39-02-90-39-72-52  
E-mail: cusago@eccabacus.it

**Avnet Time**

Via Manzoni, 44  
20095 Cusano Milanino (MI)  
Tel: 39-02-66092272  
Fax: 39-02-66092332

**DARTON SRL**

Via Monte Amiata 27  
I-20089 Rozzano (MI)  
Tel: 39-02-57511101  
Fax: 39-02-57511151

**ELDECO di Brizzo SAS**

Via Millio 36  
I-10134 Torino  
Tel: 39-011-3804068  
Fax: 39-011-3806084  
E-mail: g.brizzo@eldeco.it

**Farnell InOne**

Corso Europa, 20/22  
20020  
Tel: 39-02-93995200  
Fax: 39-02-93995300  
E-mail: sales@farnellinone.com

**RS Components SPA**

Via De Vizzi 93 / 95  
20092 Cinisello Balsamo,  
Milano  
Tel: 39-02-66-0581  
Fax: 39-02-66-058-051  
E-mail: paolo.ferrigno@rs-components.com

**SILVERSTAR LTD SPA**

Viale Fulvio Testi 280  
I-20126 Milano  
Tel: 39-02-661251  
Fax: 39-02-66101359  
E-mail: msibillin@arrowitaly.com

**TTI Italy**

Strada 1 Palazzo E1  
I 20090 ASSAGO (MI)  
Tel: 39-02-822521  
Fax: 39-02-82252233  
E-mail: sales.milan@it.ttiinc.com

**WELT ELECTRONIC SRL**

Via Della Treccia 33  
I 50145 Firenze  
Tel: 39-055-302-6345  
Fax: 39-055-310-400  
E-mail: colantoni@weltelectronic.it

**Fiber Optics Distributors**

**0.3 dB la logistique  
de la Fibre Optique**  
27, rue du Général de Gaulle BP 12  
95640-Marines-France  
Tel: 33-1-30-30-92-03  
Fax: 33-1-30-39-99-03  
E-mail: contact@03db.com

### Netherlands

**Avnet Time**

Takkebijsters 2,  
4802 HV Breda  
Tel: 31-76-57-22-300  
Fax: 31-76-57-22-303  
E-mail: TimeNL@Avnet.com

**Farnell InOne**

Zonnebaan 33, 3606 CH Maarsen  
Tel: 313-0241-7373  
Fax: 313-0241-7333  
E-mail: sales@farnellinone.com

**SPOERLE**

A Division of Arrow Central Europe  
Elzenkade 3,  
3992 AD Houten  
Tel: 31-30-63-91-234  
Fax: 31-30-63-91-205  
E-mail: SalesOffice.Utrecht@spoerle.com

**TTI Inc.**

Office Benelux  
ESP 210,  
5633 AC Eindhoven  
Tel: 31-40-290-16-16  
Fax: 31-40-290-16-10  
E-mail: sales.benelux@nl.ttiinc.com

**Fiber Optics Distributors**

**0.3 dB la logistique  
de la Fibre Optique**  
27, rue du Général de Gaulle BP 12  
95640-Marines-France  
Tel: 33-1-30-30-92-03  
Fax: 33-1-30-39-99-03  
E-mail: contact@03db.com

**Compricon Nederland BV**

Schootensdreef 1,  
5708 HZ Helmond,  
Tel: 31-492-593-000  
Fax: 31-492-593 001  
E-mail: sales@compricon.nl

**Lunimpex BV**

Amperestraat 2  
6716 BN EDE  
Tel: 31-318-486462  
Fax: 31-318-485833  
E-mail: verkoop@lunimpex.nl

### Norway

**Molex G. Knutsen AS**

Brynsveien 16  
0667 Oslo  
Postbox 6104, Etterstad 0601  
Tel: 47-23-039100  
Fax: 47-23-039149

# Global Franchised Distributor Network

## Europe (cont)

### Spain

#### ARROW IBERIA

Albasanz, 75  
28037 Madrid  
Tel: 34-917-61-70-05  
E-mail: elisa@arrowiberia.com

#### Avnet Time

C/Mallorca, 1 al 23 2ª Planta 1º  
08014 Barcelona  
Tel: 34-933-27-85-30

#### Distribuidora de Conexiones DK, S.A.

Virgen del Luc, 42  
28027 Madrid  
Tel: 34-914-04-39-77  
E-mail: info@Dkdistrib.com

#### ELECTRONICA ITEL, S.A.

Calle Energía 36  
Poligono Industrial Famades  
08940 Cornellà de Llobregat  
Barcelona  
Tel: 34-934-74-25-86  
Fax: 34-934-74-33-85  
E-mail: itelsa@itel.es

#### Farnell InOne

Parque Empresarial Cityparc,  
Edificio Londres 2,  
Cityparc Ronda de Dalt,  
Ctra. de Hospitalet, 147-149  
08940 Cornellà, Barcelona  
Tel: 34-901-20-20-80  
Fax: 34-901-20-20-90  
E-mail: sales@farnellinone.com

#### TTI

Parc Empresarial del Mediterrani  
Passeig del Ferrocarril 339, 3-4a  
08860 Castelldefels  
Tel: 34-93-645-25-75  
Fax: 34-93-699-47-33-15

#### Fiber Optics Distributors

**O.3 dB la logistique  
de la Fibre Optique**  
27, rue du Général de Gaulle BP 12  
95640-Marines-France  
Tel: 33-1-30-30-92-03  
Fax: 33-1-30-39-99-03  
E-mail: contact@03db.com

### Sweden

#### Arrow Nordic Components AB

Box 67  
Kronborgsgård 19  
S-164 94 Kista  
Tel: 46-8-56-26-5500  
Fax: 46-8-56-26-5650  
E-mail: arrownordic@arrownordic.com

#### Avnet Nortec AB

Englundavägen 7  
Box 1830  
S-171 28 Solna  
Tel: 46-8-587-464-18  
Fax: 46-8-587-464-01  
E-mail: TimeSweden@Avnet.com

#### CLL CONNECTORS & CABLES AB

Rubanksvägen 3  
74171 Knivsta-År  
Tel: 46-18-349460  
Fax: 46-18-349470  
E-mail: cl@cll.se

#### Farnell InOne

Åldermansväg 21,  
S-17148 Solna  
Tel: 46-8-730-5000  
Fax: 46-8-83-5262  
E-mail: sales@farnellinone.com

#### TTI Electronics Sweden

Johanneslundsvägen 2  
S-194 61 Upplands-Vasby  
Tel: 46-8-594-118-23  
Fax: 46-8-594-118-01  
E-mail: sales.stockholm@se.ttiinc.com

#### Fiber Optics Distributors

**Micropol Fiberoptic AB**  
P.O. Box 46  
S-313 03 Åléd  
Visiting Address: Älvdalsvägen 4  
Tel: 46-35-392-33  
Fax: 46-35-392-70  
E-mail: a.a@micropol.se

### Switzerland

#### Avnet Time

Bernstrasse 392  
8953 Dietikon  
Tel: 41-43-322-49-90  
Fax: 41-43-322-49-99  
E-mail: TimeSwitzerland@Avnet.com

#### EME AG

Interconnection & Motion  
Lohwistrasse 50  
8123 Ebmatingen  
Tel: 41-1-9821111  
Fax: 41-1-9821122  
E-mail: info@eme.ch

#### Farnell InOne

Brandschenkestrasse 178,  
8027 Zurich  
Tel: 41-1-204-64-64  
Fax: 41-1-204-64-54  
E-mail: sales@farnellinone.com

#### SPOERLE

A Division of Arrow Central Europe  
Riedmatt 9  
8153 Rümlang  
Tel: 41-1-8176-217  
Fax: 41-1-8176-200  
E-mail: Vertrieb.Zuerich@spoerle.com

# Global Franchised Distributor Network

## Europe (cont)

### UK

**Abacus Deltron**

Foxhills Industrial Park  
Scunthorpe DN15 8QJ  
Tel: 44-1724-281770  
Fax: 44-1724-281650  
E-mail: sales@deltron-uk.com

**Abacus Polar**

Abacus House  
Bone Lane  
Newbury  
Berkshire RG14 5SF  
Tel: 44-1635-36222  
E-mail: emap@abacus.co.uk

**Arrow Electronics UK Ltd**

Edinburgh Way  
Harlow  
Essex CM20 2DF  
Tel: 44-1279-441144  
Fax: 44-1279-455522  
E-mail: enquiry@arrowuk.com

**Avnet Time**

Avnet House  
Rutherford Close  
Meadway  
Stevenage  
Herts SG1 2EF  
Tel: 44-1438-788400  
Fax: 44-1438-788240  
E-mail: TimeUK@Avnet.com

**Farnell InOne**

Canal Road  
Leeds LS12 2TU  
Tel: 44-870-1227711  
Fax: 44-113-2792809  
E-mail: sales@farnellinone.com

**Flint Distribution Ltd**

Walker Road  
Bardon Hill  
Coalville  
Leicestershire  
LE67 1TU  
Tel: 44-1530-511248  
Fax: 44-1530-511249  
E-mail: garybeeby@flint.co.uk

**RS Components**

PO Box 99  
Birchington Road  
Weldon  
Corby  
Northants  
NN17 9RS  
Tel: 44-1536201234  
Fax: 44-1536405461  
E-mail: general@rswwww.com

**TTI**

2, Cliveden Office Village  
Lancaster Road  
Cressex Business Park  
High Wycombe  
Bucks HP12 3YZ  
Tel: 44-1494-460000  
Fax: 44-1494-460090  
E-mail: sales@uk.ttiinc.com

**Fiber Optics Distributors****0.3 dB la logistique  
de la Fibre Optique**

27, rue du Général de Gaulle BP 12  
95640-Marines-France  
Tel: 33-0-1-30-30-92-03  
Fax: 33-0-1-30-39-99-03  
E-mail: contact@03db.com

---

### Bulgaria

**Rutronik**

Elektronische Bauelemente GmbH  
ul. Cherkovna No. 57  
Office No. 16  
1505 Sofia  
Tel: 359-2-9430330  
Fax: 359-2-9430331  
E-mail: rutronik\_bg@rutronik.com

**TTI Inc**

Diófa u. 130  
1162 Budapest  
Tel: 36-1-4020807  
Fax: 36-1-4020808  
Email: sandor.fekete@de.ttiinc.com

**Silverstar Ltd SPA**

Viale Fulvio Testi 280  
I-20126 Milano, Italy  
Tel: 39-02-661251  
Fax: 39-02-66101359  
E-mail: msibillin@arrowitaly.com

**Farnell InOne Export (Sales)**

Canal Road  
Leeds LS12 2TU  
UK  
Tel: 44-870-1200-208  
Fax: 44-870-1200-209  
E-mail: export@farnellinone.com

---

### Croatia

**IR Electronic d.o.o. (Arrow Slovenia)**

Ziherlova 2, 1000 Ljubljana,  
Slovenia  
Tel: 386-1-420-13-82 or 91  
Fax: 386-1-283-56-05  
E-mail: bzaletelj@arrowslovenia.com  
E-mail: acatak@arrowslovenia.com

**Avnet Time Slovenia**

Dunajska 22, Ljubljana 1000,  
Slovenia  
Tel: 386-1-430-14-63  
Fax: 386-1-430-16-64  
E-mail: tea.filipic@avnet.com

# Global Franchised Distributor Network

## Eastern Europe

### Czech Republic and Slovakia

#### Arrow Electronics Czech Republic s.r.o.

Charkovská 24,  
101 00 Praha 10,  
Czech Republic  
Tel: 420-271-742-000  
Fax: 420-271-742-001

E-mail: SalesOffice.Prague@spoerle.com

#### Farnell InOne Export (Sales)

Canal Road  
Leeds  
LS12 2TU  
UK  
Tel: 44-870-1200-208  
Fax: 44-870-1200-209

E-mail: export@farnellinone.com

#### Official Electronic, s.r.o.

U Tescomy 254  
76001 Zlín - Priluky  
Czech Republic  
Tel: 420-577-525-261  
Fax: 420-577-525-263  
E-mail: official@official.cz

#### Rutronik CZ spol.s.r.o

Slavickova 1a  
63800 Brno  
Czech Republic  
Tel: 420-545-193-517  
Fax: 420-545-222-256  
E-mail: jaromir\_sevela@rutronik.com

#### TTI Czech

TTI Inc./Amtech, sro  
Banskobystricka 141  
621 00 Brno  
Czech Republic  
Tel: 420-541-225-215  
Fax: 420-541-225-292  
E-mail: filip.vostal@de.ttiinc.com

#### TTI Slovakia

TTI Slovakia/Tenon, sro  
Kubániho 16  
811 04 Bratislava  
Slovakia  
Tel: 421-268-245-910  
Fax: 421-268-245-910  
E-mail: lucia.kristek@de.ttiinc.com

#### Fiber Optics Distributors

#### 0.3 dB la logistique de la Fibre Optique

27, rue du Général de Gaulle BP 12  
95640-Marines-France  
Tel: 33-1-30-30-92-03  
Fax: 33-1-30-39-99-03  
E-mail: contact@03db.com

### Hungary

#### Arrow Central Europe

Váci út 140,  
H-1138 Budapest  
Tel: 36-1-2887300  
Fax: 36-1-2887301

E-mail: SalesOffice.Budapest@Spoerle.com

#### Farnell

FaDiHu Kft.  
Zólyomi út 3.  
1118. Budapest  
Tel: 36-1-3199805  
Fax: 36-1-3095066  
E-mail: fadihu@fadi.hu

#### Rutronik Magyarország Kft.

Fehérvári út 89-95  
H-1119 Budapest  
Tel: 36-1-3710666  
Fax: 36-1-3710667  
E-mail: rutronik\_h@rutronik.com

#### TTI Inc.

Diófa u. 130  
-1162 Budapest  
Tel: 36-1-4020807  
Fax: 36-1-4020808  
E-mail: sandor.fekete@de.ttiinc.com

#### World Components

Gárdonyi G. u 8-9  
H-9200 Mosonmagyaróvár  
Tel: 36-96-578070  
Fax: 36-96-578077  
E-mail: woco@woco.hu

### Poland

#### Arrow Central Europe

ul. Sosiedzka 110/28  
764 Warszawa  
Tel: 48-22-558-8282  
Fax: 48-22-558-8283  
E-mail: RvonDaak@spoerle.com

#### Avnet EM Sp. z o.o.

Plac Solny 16  
50-062 Wrocław  
Tel: 48-71-342-05-99  
Fax: 48-71-342-29-10  
E-mail: remigiusz.jurek@avnet.com

#### Farnell InOne Export (Sales)

Canal Road  
Leeds  
LS12 2TU UK  
Tel: 44-870-1200-208  
Fax: 44-870-1200-209  
E-mail: export@farnellinone.com

#### TME Transfer Multisort Elektronik Sp.z.o.o.

ul. Ustronna 41  
93-350 Łódź  
Tel: 48-42-645-54-00  
Fax: 48-42-645-55-00  
E-mail: moxex@tme.pl

#### TTI Inc.

ul. Lotnicza 2  
82-500 Kwidzyn  
Tel: 48-55-279-67-57  
Fax: 48-55-279-75-50  
E-mail: katarzyna.rutka@de.ttiinc.com

### Romania

#### Farnell InOne Export (Sales)

Canal Road  
Leeds  
LS12 2TU UK  
Tel: 44-870-1200-208  
Fax: 44-870-1200-209  
E-mail: export@farnellinone.com

#### Rutronik

Elektronische Bauelemente GmbH  
Maresal C-tin Prezan 142  
300695 Timisoara, Romania  
Tel: 40-25-64-01-242  
Fax: 40-25-64-01-242  
E-mail: rutronik\_ro@rutronik.com

#### TTI Romania/Telezimex S.A.

Calea Turzii Nr. 231-233  
400495 Cluj-Napoca  
Tel: 40-264-43-91-03  
Fax: 40-264-43-91-06  
E-mail: mircea.boar@de.ttiinc.com

# Global Franchised Distributor Network

## Eastern Europe (cont)

### Russia

**Arrow Central Europe**

ul. Konjushkovskaya, 28  
123242 Moscow  
Tel: 7-495-926-55-97  
Fax: 7-495-926-55-98

E-mail: SalesOffice.Moscow@spoerle.com

**Farnell InOne Export (Sales)**

Canal Road  
Leeds LS12 2TU UK  
Tel: 44-870-1200-208  
Fax: 44-870-1200-209

E-mail: export@farnellinone.com

**ITC Electronics**

82/1, Krasnyi Prospekt  
630091 Novosibirsk  
Tel: 8-800-200-8208,  
7-383-22-77-888

**ITC Electronics Moscow**

Radiost. 24  
105005 Moscow  
Tel: 7-495-775-18-45  
Fax: 7-495-775-18-48

E-mail: moscow@itc-electronics.com

**Macro Team**

Zelenyi Prospekt,  
Bld. 3 2/19  
111141 Moscow  
Tel: 7-495-306-0026  
Fax: 7-495-306-0283

Roman Pinchuk  
E-mail: molex@macroteam.ru

**Petersburg Electronic Company**

2 Pobedy Square  
196143 St. Petersburg  
Tel: 7-812-373-0063  
Fax: 7-812-373-5257

Vladimir Starostin  
E-mail: pec@pec.spb.ru

**Rutronik**

Beteiligungsgesellschaft mbH  
Leningradskoje Chaussee 16  
Building 3, Office 403  
125171 Moscow  
Tel: 7-495-15-99-255

E-mail: rutronik\_ru@rutronik.com

---

### Slovenia

**Avnet Time**

Dunajska cesta 159,  
1000 Ljubljana  
Tel: 386-0-1-5609-754 or 756  
Fax: 386-0-1-5609-878

E-mail: tea.filipic@avnet.com

**Farnell InOne Export (Sales)**

Canal Road  
Leeds  
LS12 2TU UK  
Tel: 44-870-1200-208  
Fax: 44-870-1200-209

E-mail: export@farnellinone.com

**IR Electronic d.o.o. (Arrow Slovenia)**

Zihelova 2, 1000 Ljubljana  
Tel: 386-1-420-13-82 or 91  
Fax: 386-1-283-56-05

E-mail: bzaletelj@arrowslovenia.com  
E-mail: acatak@arrowslovenia.com

**Rutronik Elektronische  
Bauelement GmbH**

Brnciceva 13  
1213 Ljubljana - Crnuce  
Tel: 38-61-561-1458  
Fax: 38-61-561-2053

E-mail: rutronik\_si@rutronik.com

---

### Ukraine

**Arrow Central Europe**

Glubochitskaya Street 40  
04050 Kiev, Ukraine  
Tel: 380-44-4597021  
Fax: 380-44-4597021

E-mail: salesoffice.kiev@spoerle.com

**Farnell InOne Export (Sales)**

Canal Road  
Leeds LS12 2TU UK  
Tel: 44-870-1200-208  
Fax: 44-870-1200-209

E-mail: export@farnellinone.com

**ITC Electronics Kiev**

pr. Vossoyedineniya 7a  
Office 107  
02160 Kiev, Ukraine  
Tel: 380-44-559-68-90  
Fax: 380-44-501-13-03

E-mail: kiev@itc-electronics.com

**Rutronik**

Beteiligungsgesellschaft mbH  
Leningradskoje Chaussee 16  
Building 3, Office 403  
125171 Moscow, Russia  
Tel: 7-495-15-99-255

E-mail: rutronik\_ru@rutronik.com

**SEA**

Krakovskaya str. 36/10  
02094 Kiev  
Tel: 380-44-575-94-10  
Fax: 380-44-575-94-03

E-mail: info@sea.com.ua

# Global Franchised Distributor Network

## Asia

### Hong Kong

**Arrow Asia Pac Ltd.**

20/F., Tower 2,  
Ever Gain Plaza  
88 Container Port Road,  
Kwai Chung  
Hong Kong  
Tel: 852-2484-2484  
Fax: 852-2484-2128  
E-mail: Louisa.Lui@arrowasia.com

**Chinatronic Technology Ltd.**

16/F., Spectrum Tower  
53 Hung To Road, Kwun Tong  
Hong Kong  
Tel: 852-2176-5180  
Fax: 852-2376-2142

**Antech (H.K.) Company**

Unit 902C, 9/F Sunbeam Centre,  
27 Shing Yip Street, Kwun Tong,  
Kowloon, Hong Kong  
Tel: 852-2172-7889  
Fax: 852-2172-7880  
E-mail: Catherine@abacusaic.com.tw

**Che Fung Enterprise**

2212 Tsuen Wan Industrial Centre  
220 Texaco Road,  
Tsuen Wan, N.T.  
Hong Kong  
Tel: 852-2408-6039  
Fax: 852-2407-6108  
E-mail: hongkong@chefung.com

**Hua Tong Connector Co., Ltd.**

Ft. C, 9/F., Chen Yip Ind. Bldg.  
5 Lai Yip St.  
Kwun Tong, Kowloon  
Hong Kong  
Tel: 852-2790-5026  
Fax: 852-2790-5812  
E-mail: sales@huaconn.cn

**Long Think Enterprise (HK) Co., Ltd.**

Flat F, 17/F., Universal Ind. Centre,  
23-25 Shan Mei Street,  
Fotan, Shatin  
Hong Kong  
Tel: 852-2687-6262  
Fax: 852-2687-6267  
E-mail: longthink@netvigator.com

**Ohnishi Denki (HK) Limited**

Unit 3012-13, Level 30,  
Metroplaza Tower 1,  
223 Hing Fong Road, Kwai Fong,  
Kwai Chung, N.T.,  
Hong Kong  
Tel: 852-2314-9141  
Fax: 852-2396-9737  
E-mail: ohrachel@biznetvigator.com  
Contact: Ms. Rachel Ho

**Marubun/Arrow (HK) Ltd.**

Suites 1706-07, 17/F, Tower 6,  
The Gateway  
9 Canton Road  
Tsim Sha Tsui, Kowloon,  
Hong Kong  
Tel: 852-2273-0013  
Fax: 852-2273-0014  
E-mail: tomoaki.higuchi@  
marubunarrow-asia.com

**Shenzhen Mansion  
Technology Limited**

(Hong Kong Office)  
Rm 2803-05, 28/F.,  
Well Fung Ind. Centre,  
68 Ta Chuen Ping St.,  
Kwai Chung, NT. Hong Kong  
Tel: 852-2487-6006  
Fax: 852-2422-8290  
E-mail: kfyuen@hungshang.com.hk

**TTI Hong Kong Limited**

Unit 607, 6/F, Lu Plaza  
2 Wing Yip Street, Kwun Tong,  
Kowloon, Hong Kong  
Tel: 852-2628-0970  
Fax: 852-2628-0966  
E-mail: anthony.chan@ttiinc.com  
Contact: Anthony Chan

### China - South

**Arrow Electronic (Shenzhen) Co., Ltd.**

No. 109-112 Building  
International Commerce  
& Exhibition Center  
No. 1001 Honghua Road  
Futian Free Trade Zone  
Shenzhen, People's Republic of China  
Tel: 86-755-8359-2920 ext. 25416  
Fax: 86-755-8359-2377  
E-mail: catherine.wang@arrowasia.com

**Antech (H.K.) Company**

1F-2, No. 3, JiangBei, WuSha,  
ChangAn Town,  
DongGuan City, GuangDong Province  
People's Republic of China  
Tel: 86-769-8549-9849/9949  
Fax: 86-769-8549-9719  
E-mail: alex@abacusaic.com.tw

**Chinatronic Technology Ltd.**

10/F Block A,  
Electronics Science & Tech Bldg  
No. 2070 Shennan Rd,  
Central Shenzhen  
People's Republic of China  
Tel: 86-755-8378-1886 Ext. 1462/1420  
E-mail: Shiny.Li@avnet.com

**More & Long Ltd.**

Hua Sheng Ind. Zone,  
Dalang LongHua Baoan, Shenzhen,  
China, People's Republic of China  
Tel: 86-755-2-8138-344  
Tel: 86-755-2-8138-345  
Fax: 86-755-2-8138-352  
E-mail: winnie@sinyue.com.tw

**Shanghai Chefung**

**Wire Harness Equipment Co., Ltd.**  
(Shenzhen Branch)  
3/F, 56, Jian Se Nan Road,  
Beijiao, Shunde  
People's Republic of China  
Tel: 86-765-665-3559  
Fax: 86-765-666-1420  
E-mail: sde@chefung.com  
Contact: Ms. Lin Huan Qun

**ShenZhen Deren Electronic Co., Ltd.**

Room 1710/1718, Cyber Times Tower A  
Tianan Cyber Park  
Futian, Shenzhen  
People's Republic of China  
Tel: 86-755-8347-6677  
Fax: 86-755-8347-6521  
E-mail: Chenjie@deren.com.cn

**Shenzhen Mansion  
Technology Limited**

1/F, 9~10/F, Bao Yu Building,  
Xin An 5 Road, 52 District, Xin Cheng  
Bao An, Shen Zhen  
People's Republic of China  
Tel: 86-755-2751-5862  
Fax: 86-755-2789-3069  
E-mail: kfyuen@hungshang.com.hk

**Shilong Huatong Electronic Co., Ltd.**

4/F, 11, Weixin Road  
Shilong Town, Dongguan City  
Guangdong Province,  
China, People's Republic of China  
Tel: 86-769-8660-7176  
Fax: 86-769-8660-7200  
E-mail: sales@huaconn.cn

# Global Franchised Distributor Network

## Asia (cont)

### China - Central

**Abacus (Shanghai) International**

Rm807, No.1, Jilong Rd,  
Waigaoqiao Free Trade Zone  
200131, Pudong Shanghai  
Tel: 86-21-5869-1798  
Fax: 86-21-5869-6790

E-mail: mark@abacusaic.com.tw

**Arrow Electronics (Shanghai) Ltd.**

6/F, Building 1, Zhangjiang  
RiverFront Harbor,  
3000 Long Dong Avenue,  
Shanghai 201203  
Tel: 86-21-2893-2000  
Fax: 86-21-2893-2333

E-mail: Daniel.zhu@arrowasia.com

**Chinatronic Technology Limited**

North China Region (Avnet)  
21/F, Strength Plaza, No. 3,  
Lane 600, Tianshang Rd,  
200051, Shanghai  
People's Republic of China  
Tel: 86-21-5206-2288  
Fax: 86-21-5206-2299

E-mail: Irene.Deng@Avnet.com

**Long Think International Trading (Shanghai) Co., Ltd.**

Room 217, No. 728 XinHua Road  
Shanghai 200052  
People's Republic of China  
Tel: 86-21-6294-6472  
Fax: 86-21-6280-8741

E-mail: tung@longthink.com.tw  
Attn: Tung Wang

**Panasonic International Trading (Shanghai) Co., Ltd.**

9th Floor, HSBC Tower,  
1000 Lujiazui Ring Road,  
Pudong New Area,  
Shanghai 200120,  
People's Republic of China  
Tel: 86-21-6841-2589  
Fax: 86-21-6841-2030

E-mail: shin-w@mttco.co.jp  
Attn: Shin Watanabe

**ShangHai Chefung WireHarness Equipment Co. Ltd.**

Rm 112, Longjiang Building  
No. 260 Nan Xun Rd,  
200080, Shanghai  
People's Republic of China  
Tel: 86-21-63071518  
Fax: 86-21-63936250

E-mail: ch Wong@chefung.com  
Attn: C. H. Wang

**Shanghai Hongyi Trading Co., Ltd.**

4/F, No. 2 Building, 115 Tianlin Rd,  
200233, Shanghai  
People's Republic of China  
Tel: 86-21-5448-4690  
Fax: 86-21-5448-4681

E-mail: connector@hongyitrade.com  
Attn: Bob Ye

**Shanghai TTI Electronics Co., Ltd.**

2303 Room, 23rd Floor  
Wise Logic International Central  
No. 66 Shaan Xi Road, Shanghai 200041  
People's Republic of China  
Tel: 86-21-5153-1386  
Fax: 86-21-5153-1383

E-mail: Dennis.Tang@ttiinc.com  
Attn: Dennis Tang

**Suho Precise Component Co., Ltd.**

Bulding 9-1,  
FengYi Quarter FengYi Street  
DongHuan Road,  
Suzhou City, 215021  
People's Republic of China  
Tel: 86-512-6745-1315  
Fax: 86-512-6748-8412

E-mail: saul@suhoprecise.com  
Attn: Saul Yi

---

### China - North

**Beijing Gold Zhida Technology Ltd.**

Rm 1604, Tri-tower B Building,  
No. 66 Zhongguancun East Road,  
Haidian District  
Beijing 100080,  
People's Republic of China  
Tel: 010-6267-0360, 62670598,  
62670865

Fax: 010-62670956

E-mail: qxf@gold-zhida.com  
Contact: Qiao XianFang

**Qingdao Yiyang Electronic Co., Ltd.**

No 153 Yichun Road  
Qingdao, People's Republic of China  
Tel: 86-0532-598-5611  
Tel: 86-0532-598-9361  
Fax: 86-0532-598-5642

E-mail: YIYANG-QD@163.COM

Contact: Mr. William Wang

Contact: Mr. Henry Li

---

### India

**Arrow Electronics India Pvt. Ltd.**

(Bangalore Branch)  
#26, 4th Floor, Akshaya Commercial Complex  
Victoria Road,  
Bangalore 560 047, India  
Tel: 91-80-4135-3800  
Fax: 91-80-4112-7784

E-mail: rakesh.thakar@arrowasia.com

**Avnet India Private Limited**

2nd Floor, "The Estate"  
121, Dickenson Road,  
Bangalore 560 042, India  
Tel : 91-80-2532-3420  
Fax: 91-80-2532-3747

E-mail: Debasis.Panda@avnet.com

**East West Automation Pvt. Ltd.**

106, Vinoba Puri, Lajpat Nagar-II,  
New Delhi 110 024, India  
Tel: 91-11-6542-5642/5643  
Fax: 91-11-2984-4547

E-mail: eastwest1@rediffmail.com

**Ingram Micro Pvt Ltd**

Gate No.1A, Godrej Industries Complex  
Pirojshanagar, Vikhroli East  
Mumbai, Maharashtra 400 079, India  
Tel: 91-22-6796-0127  
Fax: 91-22-2518-8236

E-mail: sandeep.p@ingrammicro.co.in  
semiconductors@ingrammicro.co.in

**Parag Distributors**

Shamli Soc., Flat 1  
120, Prabhat Rd, Erandwane  
Pune-411 004  
Maharashtra, India  
Tel: 91-20-2546-0236  
Fax: 91-20-2544-3233

E-mail: paragaher@vsnl.com

**Spectra Connectronics Pvt. Ltd.**

52B Chotani Building First Floor,  
Prator Road off Lamington Road  
Mumbai 400 0071, India  
Tel: 91-22-6636-1999  
Fax: 91-22-2380-2753

E-mail: purchase@spectraconnectronics.com

**Viswas Trading Company**

25/1, 3rd Floor, Vinod Complex  
J.C. Road  
Bangalore 560 002, India  
Tel: 91-80-4124-0595/2223 3925  
Fax: 91-80-4157-5677

E-mail: viswastrading@airtelbroadband.in

# Global Franchised Distributor Network

## Asia (cont)

### Indonesia

**PT GSK Electronics Indonesia**

Ariobimo Sentral, 4th Floor  
Jl.H.R. Rasuna Said Kav.X-2/5  
Jakarta 12950 Indonesia  
Tel: 62-21-252-5746  
Fax: 62-21-252-5755  
Email: daryl@gsk.com.sg

**Pt. Novalux Indonesia**

Gedung BRI II 15th Floor  
Suite # 1500A  
Jl. Jendral Sudirman  
No. 44-46  
Jakarta 10210, Indonesia  
Tel: 62-21-574-4059  
Fax: 62-21-574-4042  
E-mail: ogata@novalux.co.id

**TECK International Pte. Ltd.**

Kawasan Niaga Sentra Eropa Blok E/12  
Kota Wisata - Cibubur  
Jakarta - 16968  
Tel/Fax: 62-21-84932371  
E-mail: tm.low@lionex-teck.com.sg

### Malaysia

**Arrow Components (M) Sdn Bhd**

Unit 18.01A, 18/F, Menara PSCI  
39 Jalan Sultan Ahmad Shah, 10050,  
Penang, West Malaysia  
Tel: 60-4-229-6613  
Fax: 60-4-229-6623  
E-mail: steven.toh@arrowasia.com

**Arrow Components (M) Sdn Bhd**

No. 608, Block A,  
Kelana Business Centre,  
97 Jalan SS7/2,  
Kelana Jaya,  
47310 Petaling Jaya, Selangor.  
Tel: 03-7804-6313  
Fax: 03-7804-6213  
E-mail: steven.toh@arrowasia.com

**Avnet Malaysia Sdn Bhd**

Penang Branch  
1-4-16, Krystal Point Corporate Park,  
Lebuh Bukit Kecil 6,  
11900 Bayan Lepas  
Penang, Malaysia  
Tel: 604-646-1837  
Fax: 604-646-1950  
E-mail: claire.kee@avnet.com

**Avnet Malaysia S/B (KL)**

24-1, Jalan Medan Setia 2,  
Plaza Damansara, Bukit Damansara,  
50490 Kuala Lumpur,  
Malaysia  
Tel: 03-2093-9721/9722  
Fax: 03-2093-9723  
E-mail: SC.Teng@avnet.com

**Farnell Components (M) Sdn Bhd  
(376822-U)**

Lot 14, Jalan 51A/227, 46100 Petaling  
Jaya, Selangor Darul Ehsan, Malaysia  
Tel: 00-60-3-7873-8000  
Fax: 00-60-3-7873-7000  
E-mail: malaysia-sales@farnell.com

**GSKP Electronics Sdn Bhd**

Level 3, Unit 11, Krystal Point II,  
No 1, Lebuh Bukit Kecil 6,  
11900 Bayan Lepas  
Penang, Malaysia  
Tel: 604-6424889/6427889  
Fax: 604-6427890  
Email: chris@gsk.com.sg

**GSKP Electronics Sdn Bhd**

Endah Ria Condominium  
C-06-14 Jalan 3/149E  
Taman Sri Endah, Bandar Baru Sri Petaling  
57000 Kuala Lumpur, Malaysia  
Tel: 603-9057-5107  
Fax: 603-9057-3107  
E-mail: chris@gsk.com.sg

**WPI Components Sdn Bhd  
(Kuala Lumpur)**

23-1 & 25-1 (Ground Floor), Block D1  
Dataran Prima, Jalan PJU 1/41  
47301 Petaling Jaya  
Selangor, Malaysia  
Tel: 603-7880-8309 Ext. 1200  
Fax: 603-7880-8310  
E-mail: bc.hia@wpgintl.com

**WPI Components Sdn Bhd**

Unit 13, 14 (Lower Level 6)  
Hotel Equatorial Penang  
No 1, Jalan Bukit Jambul,  
11900 Bayan Lepas  
Penang, Malaysia  
Tel: 604-642-9500  
Fax: 604-642-9499  
E-mail: bh.wong@wpgintl.com

### Philippines

**Arrow Electronics Labuan Pte. Ltd.**

26th Floor Tower 1,  
Insular Life Corporate Centre,  
Filinvest Corporate City, Alabang  
1770 Muntinlupa City, Philippines  
Phone: 632-772-3053/55/56  
Fax: 632-772-3054  
E-mail: Mario.Rivero@arrowasia.com  
Contact: Mario Rivero

**Avnet Philippines Pty Ltd Inc**

1505 Richville Corporate Tower  
1107 Alabang Zapote Road  
Madrigal Business Park, Ayala Alabang  
Muntinlupa City, Philippines 1780  
Tel: 632-772-4201/02/03  
Fax: 632-772-4204  
E-mail: Rommel.DelaCruz@Avnet.com  
Contact: Rommel Dela Cruz

**Cinergi Tech & Devices**

Rm 1002, 10F, South Center Tower  
2206 Market Street  
Madrigal Business Park  
Alabang, Muntinlupa City 1770,  
Philippines  
Tel: 632-842-6567  
Fax: 632-842-0185  
E-mail: rj.cabrera@cinergitech.com

**Marubun/Arrow Phils.-Inc.**

2nd Floor, MDD Building  
121 East Science Avenue  
Laguna Technopark, Special Economic Zone  
Binan, Laguna 4024 Philippines  
Tel: 63-49-541-3356  
Tel: 63-49-541-3357  
Fax 63-49-541-2977  
E-mail: Yasutka.Matsousa@  
marubunarrow-asia.com  
Contact: Yasutaka Matsuoaka

# Global Franchised Distributor Network

## Asia (cont)

### Singapore

**Arrow Electronics (S) Pte. Ltd.**  
750E Chai Chee Road #07-01/02,  
Technopark @ Chai Chee  
Singapore 469005  
Tel: 65-845-8388  
Fax: 65-845-8227  
E-mail: Wilson.Thoo@arrowasia.com

**Avnet Asia Pte. Ltd.**  
151 Lorong chuan #06-03  
New Tech Park  
Singapore 556741  
Tel: 65-6580-6000  
Fax: 65-6580-6122  
E-mail: David.Pong@avnet.com  
Contact: David Pong

**WPI International (S) Pte. Ltd.**  
53 Ubi Road 1  
Singapore 408698  
Tel: 65-6282-5188  
Fax: 65-6282-9251  
E-mail: munchoy.chow@wpgintl.com

**Empire Components Pte. Ltd.**  
887 Defu Lane 10 # 06-00  
MEC TechnoCentre  
Singapore 539219  
Tel: 65-6288-2593  
Fax: 65-6284-0538  
E-mail: cyuen@mec.com.sg  
Contact: Carrie Yuen

**Farnell Components Pte. Ltd.**  
15 Tai Seng Drive, Singapore 535220  
Tel: 00-65-788-0200  
Fax: 00-65-788-0300  
E-mail: singapore@farnell.com

**GSK Electronics Pte. Ltd.**  
15 Shaw Road  
#06-01/02  
Teo Industrial Building  
Singapore 367953  
Tel: 65-6284-8011  
Fax: 65-6284-5011  
E-mail: grene@gsk.com.sg

**TTI Electronics Asia Pte. Ltd.**  
3 Changi North Street 2 #03-01B  
Trivec Building  
Singapore 498827  
Tel: 65-6788-9200  
Fax: 65-6788-9300  
E-mail: Vincent.Chua@ttiinc.com  
Contact: Vincent Chua

**Marubun/Arrow (S) Pte. Ltd.**  
77 Robinson Rd #21-02 SIA Building  
Singapore 068896  
Tel: 65-6536-0050  
Fax: 65-6536-2400  
E-mail: gh.ye@marubunarrow-asia.com  
Contact: Ye GuanHan

---

### Taiwan

**Arrow Electronics Taiwan Ltd.**  
(Head Office - Taipei)  
19/F, No. 75, Hsin Tai Wu Road,  
Hsi Chih, Taipei,  
Taiwan, Republic of China  
Tel: 886-2-2698-2889  
Fax: 886-2-2698-2901  
E-mail: Anderson.Lo@arrowasia.com

**Arrow Electronics Taiwan Ltd.**  
(Hsin Chu)  
No. 75, Chin San 23 Street,  
Hsin Chu City 300  
Taiwan, Republic of China  
Tel: 886-35-788-138  
Fax: 886-35-788-440  
E-mail: peter.lin@arrowasia.com

**Avnet Electronics Marketing**  
Avnet Asia Pte Ltd, Taiwan Branch  
(Singapore)  
5F, no. 3, Yuan Cyu Rd.,  
(Nankang Software Park)  
Taipei, Taiwan  
Republic of China  
Tel: 886-2-2655-8688 #838  
Fax: 886-2-2655-8666  
E-mail: Lily.Fan@avnet.com

**Abacus International Co., Ltd.**  
3F-1, No. 192, Ruei-Guang Road,  
Nei-Hu, Taipei  
Taiwan, Republic of China  
Tel: 886-2-2797-5598  
Fax: 886-2-2798-5828  
E-mail: alex@abacusaic.com.tw

**Long Think Enterprise Co., Ltd.**  
3F, No. 162, Dah-Yeh Rd. Peitou  
Taipei  
Taiwan, Republic of China  
Tel: 886-2-2898-6899  
Fax: 886-2-2898-6820  
E-mail: jack@longthink.com.tw

**Sinyue Enterprise Co., Ltd.**  
4F, No. 66-8 Sec. 2, Nan Kan Road, Lu Chu,  
Taoyuan Hsien, Taipei  
Taiwan, Republic of China  
Tel: 886-3321-5588  
Fax: 886-3321-5533  
E-mail: winnie@sinyue.com.tw

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### Thailand

**GSK Electronics (Thailand) Co., Ltd.**  
11th Fl, Zone B1  
222 Thanseetakij Bldg.  
Vibhavadi-Rangsit rd., Ladyao  
Chatuchak, Bangkok  
Tel: 662-512-0477  
Fax: 662-512-0478  
E-mail: nicky@gsk.com.sg  
Contact: Nicky

**Marubun Arrow (Thailand) Co., Ltd.**  
**Unit 2907-2908,**  
29th floor, Empire Tower  
195 South Sathorn rd., Yannaw  
Sathorn, Bangkok  
Tel: 662-670-0770  
Fax: 662-670-0780  
E-mail: hideyuki.ogura@  
marubunarrow-asia.com

# Global Franchised Distributor Network

## Australia/Middle East/New Zealand

### Australia

**Adilam Electronics Pty. Ltd.**

14 Nicole Close  
Bayswater, Victoria 3153  
Tel: 61-3-9737-4900  
E-mail: robert.haddick@adilam.com.au

**Arrow Electronics Australia Pty. Ltd. (Melbourne Head Office)**

9-10 Bastow Place,  
Mulgrave, Victoria 3170  
Tel: 61-3-9574-9300  
Fax: 61-3-9574-9773  
E-mail: rob.montetooth@arrowasia.com

**Arrow Electronics Australia Pty. Ltd. (Sydney Office)**

Suite 301, Building A  
240-244 Beecroft Road  
Epping, NSW 2121  
Tel: 61-2-9868-9900  
Fax: 61-2-9868-9901  
E-mail: richard.searle@arrowasia.com

**Arrow Electronics Australia (Brisbane Office)**

Unit 2A 23 Vauxhall Street  
Virginia, QLD 4014  
Tel: 61-7-3623-9000  
Fax: 61-7-3216-5750  
E-mail: russell.oakes@arrowasia.com

**Arrow Electronics Australia (Adelaide Office)**

Suite 8, The Parks  
154 Fullarton Road,  
Rose Park, S.A 5067  
Tel: 61-08-8333-2122  
Fax: 61-08-8333-2322  
E-mail: ian.wallis@arrowasia.com

**Arrow Electronics Australia (Perth Office)**

Western Australia Suite 1  
64 Canning Highway  
Victoria Park, W.A. 5100  
Tel: 61-8-9472-3855  
Fax: 61-8-9470-3273  
E-mail: steve.squires@arrowasia.com

**Avnet Sydney**

2 Giffnock Avenue  
North Ryde  
New South Wales 2113  
Australia  
Tel: 61-02-9878-1299  
Fax: 61-02-9878-1266  
E-mail: Australia.Sales@avnet.com

**Avnet Adelaide**

PO Box 742  
Brighton SA 5048  
Australia  
Tel: 1300-888364  
Fax: 61-2-9878-1266  
E-mail: Australia.Sales@avnet.com

**Avnet Brisbane**

PO Box 3228  
Bracken Ridge QLD 4017  
Australia  
Tel: 1300-888364  
Fax: 61-2-9878-1266  
E-mail: Australia.Sales@avnet.com

**Avnet Melbourne**

PO Box 767  
Bayswater VIC 3153  
Australia  
Tel: 1300-888364  
Fax: 61-2-9878-1266  
E-mail: Australia.Sales@avnet.com

**Captron Pty. Limited**

PO Box 884  
Brookvale  
New South Wales 2100 Australia  
Tel: 61-2-9905-5888 or  
Toll free: 800-813-838/  
Tel: 61-2-9905-5851 or  
Toll free: 800-995-851  
E-mail: info@captron.com.au

**Farnell Components**

72 Ferndell Street  
NSW 2162, Australia  
Tel: 61-2-9644-7722  
Fax: 61-2-9644-7898  
E-mail: ausales@farnell.com

## Middle East

### Israel

**Arrow Rapac Ltd.**

60 Amal St. Kiryat-Arieh  
49130 Petach-Tikva, Israel  
Tel: 972-3-9203456  
Fax: 972-3-9203443

**Telsys Ltd**

Atidim, Bldg 3, Dvora  
Hanevia Str. Neve Sharet  
61431 Tel Aviv, Israel  
Tel: 972-3-7657660  
Fax: 972-3-6497407

### Turkey

**Arrow Elektronik Ticaret A.Ş.**

Çayırıolu Sok. Üçgen Plaza No: 7 Kat: 8  
81120 İçerenköy, Istanbul  
Turkey  
Tel: 90-216-5751820  
Fax: 90-216-5751830  
E-mail: oyilmaz@arrowtr.com

**Alfa Elektronik San. ve Tic. Ltd. Şti.**

Yenisahra Mahallesi  
Mimar Sinan Cad.  
No: 2/A, Kadikoy,  
34746 Istanbul,  
Turkey  
Tel: 90-216-472-83-17  
Fax: 90-216-472-83-22  
E-mail: alfa@al-fa.com.tr

**Fiber Optics Distributors****0.3 dB la logistique de la Fibre Optique**

27, rue du Général de Gaulle BP 12  
95640-Marines-France  
Tel: 33-0-1-30-30-92-03  
Fax: 33-0-1-30-39-99-03  
E-mail: contact@03db.com

## New Zealand

### New Zealand

**Adilam Electronics Pty. Ltd.**

5A Tenahuan Place Sockburn  
Christchurch  
Tel: 64-3-341-3050  
E-mail: trevor.foster@adilam.com.au

**Arrow Components (NZ) Ltd. (Auckland)**

Suite 3, Unit F 8 Torrens Rd Pakuranga  
Tel: 64-9-622-0101  
Fax: 64-9-272-2310  
E-mail: martin.tompkins@arrowasia.com

**Arrow Components (NZ) Ltd. (Christchurch)**

Suite 3, Level 1 12-18 Moorhouse Ave  
Christchurch  
Tel: 64-3-366-2000  
Fax: 64-3-366-2111  
E-mail: gary.campbell@arrowasia.com

**Arrow Components (NZ) Ltd. (Wellington)**

Level 3, Crest House 92 Queens Drive  
Lower Hutt  
Tel: 64-4-570-2260  
Fax: 64-4-566-2111  
E-mail: john.hardie@arrowasia.com

**Avnet NZ Ltd.**

295 Coshel Street  
Christchurch  
New Zealand  
Tel: 64-3-366-0191  
Mr. Andrew Plimmer  
Fax: 64-3-366-3911  
E-mail: andrew.plimmer@avnet.com

**Farnell Components**

PO Box 74-342  
Market Road  
Auckland  
New Zealand  
Tel: 0800-90-80-80  
Fax: 0800-90-80-81  
E-mail: nzsales@farnell.com

## Notes

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## Notes

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## Notes

# CONVERSION TABLES

## Wire Gauge Conversion to Decimal Equivalents\*

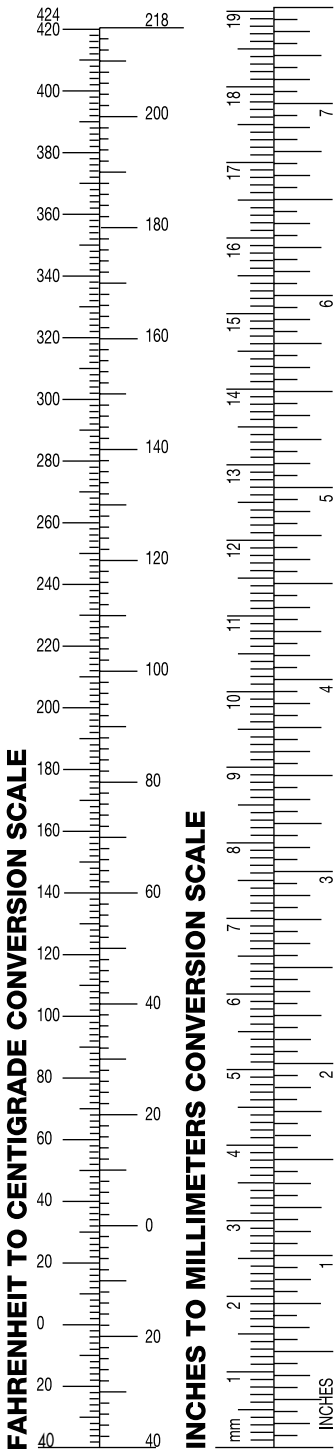
| Inch Fraction | Inch Decimal | Millimeters | Inch Fraction | Inch Decimal | Millimeters |
|---------------|--------------|-------------|---------------|--------------|-------------|
| 1/64          | .0156        | 0.397       | 33/64         | .5156        | 13.097      |
| 1/32          | .0312        | 0.794       | 17/32         | .5312        | 13.494      |
| 3/64          | .0468        | 1.191       | 35/64         | .5468        | 13.891      |
| 1/16          | .0625        | 1.588       | 9/16          | .5625        | 14.288      |
| 5/64          | .0781        | 1.984       | 37/64         | .5781        | 14.684      |
| 3/32          | .0937        | 2.381       | 19/32         | .5937        | 15.081      |
| 7/64          | .1093        | 2.778       | 39/64         | .6093        | 15.478      |
| 1/8           | .1250        | 3.175       | 5/8           | .6250        | 15.875      |
| 9/64          | .1406        | 3.572       | 41/64         | .6406        | 16.272      |
| 5/32          | .1562        | 3.969       | 21/32         | .6562        | 16.669      |
| 11/64         | .1718        | 4.366       | 43/64         | .6718        | 17.066      |
| 3/16          | .1875        | 4.763       | 11/16         | .6875        | 17.463      |
| 13/64         | .2031        | 5.159       | 45/64         | .7031        | 17.859      |
| 7/32          | .2187        | 5.556       | 23/32         | .7187        | 18.256      |
| 15/64         | .2343        | 5.954       | 47/64         | .7343        | 18.653      |
| 1/4           | .2500        | 6.350       | 3/4           | .7500        | 19.050      |
| 17/64         | .2656        | 6.747       | 49/64         | .7656        | 19.447      |
| 9/32          | .2812        | 7.144       | 25/32         | .7812        | 19.884      |
| 19/64         | .2968        | 7.541       | 51/64         | .7968        | 20.241      |
| 5/16          | .3125        | 7.938       | 13/16         | .8125        | 20.638      |
| 21/64         | .3281        | 8.334       | 53/64         | .8281        | 21.034      |
| 11/32         | .3437        | 8.731       | 27/32         | .8437        | 21.431      |
| 26/64         | .3593        | 9.128       | 55/64         | .8593        | 21.828      |
| 3/8           | .3750        | 9.525       | 7/8           | .8750        | 22.225      |
| 25/64         | .3906        | 9.922       | 57/64         | .8906        | 22.622      |
| 13/32         | .4062        | 10.319      | 29/32         | .9062        | 23.019      |
| 27/64         | .4218        | 10.716      | 59/64         | .9218        | 23.416      |
| 7/16          | .4375        | 11.113      | 15/16         | .9375        | 23.813      |
| 29/64         | .4531        | 11.509      | 64/64         | .9531        | 24.209      |
| 15/32         | .4687        | 11.906      | 31/32         | .9687        | 24.606      |
| 31/64         | .4843        | 12.303      | 63/64         | .9843        | 25.003      |
| 1/2           | .5000        | 12.700      | 1             | 1.000        | 25.400      |

Move decimal point three places to the right to read mills.  
\*All decimals plus or minus .003". Fractions plus or minus .055".

| AWG | mm <sup>2</sup> | Diameter |       |        |
|-----|-----------------|----------|-------|--------|
|     |                 | CMA      | mm    | Inches |
| 28  | 0.09            | 175      | 0.33  | .013   |
| 26  | 0.13            | 250      | 0.51  | .020   |
| 24  | 0.22            | 442      | 0.58  | .023   |
| 22  | 0.38            | 754      | 0.79  | .031   |
| 20  | 0.62            | 1,216    | 0.94  | .037   |
| 18  | 0.96            | 1,900    | 1.24  | .049   |
| 16  | 1.23            | 2,426    | 1.47  | .058   |
| 14  | 1.94            | 3,831    | 1.85  | .073   |
| 12  | 3.09            | 6,088    | 2.36  | .093   |
| 10  | 5.01            | 9,880    | 2.95  | .116   |
| 8   | 7.96            | 15,700   | 3.73  | .147   |
| 6   | 13.48           | 26,600   | 4.67  | .184   |
| 4   | 21.28           | 42,000   | 5.89  | .232   |
| 2   | 33.70           | 66,500   | 7.42  | .292   |
| 1/0 | 52.95           | 104,500  | 9.35  | .368   |
| 2/0 | 67.39           | 133,000  | 10.52 | .414   |
| 3/0 | 84.72           | 167,200  | 11.79 | .464   |
| 4/0 | 107.76          | 210,700  | 13.26 | .522   |

Hole diameter  
#10 and 3/8" are available  
in metric reference.

#10 .190 .209 (5,31) M5  
3/8" .375 .413 (10,5) M9-10



Stud size with hole sizes.

|   | SCREW DIA. (Inch) | HOLE DIA. Inch/mm |          |
|---|-------------------|-------------------|----------|
| • | #0 .060           | .094 (2,39)       | M1,7-2,2 |
| • | #1 .073           |                   |          |
| • | #2 .086           |                   |          |
| • | #3 .099           | .120 (3,025)      | M2,6     |
| • | #4 .112           |                   |          |
| • | #5 .125           | .146 (3,71)       | M3-3,5   |
| • | #6 .138           |                   |          |
| • | #8 .164           | .173 (4,39)       | M4       |
| • | #10 .190          | .198 (5,03)       |          |
| • | #12 .216          | .250 (6,35)       | M6       |
| • | #14 .242          |                   |          |
| • | 1/4" .250         |                   |          |
| • | 5/16" .312        | .312 (8,33)       | M8       |
| • | 3/8" .375         | .375 (9,92)       | M9       |
| • | 7/16" .437        | .437 (11,51)      | M11      |
| • | 1/2" .500         | .500 (13,10)      | M12      |
| • | 5/8" .625         | .625 (16,67)      | M16      |
| • | 3/4" .750         | .750 (19,84)      | M18      |
| • | 7/8" .875         | .875 (23,02)      | M20      |
| • | 1" 1.000          | 1.000 (26,19)     | M25      |

## Данный компонент на территории Российской Федерации

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9