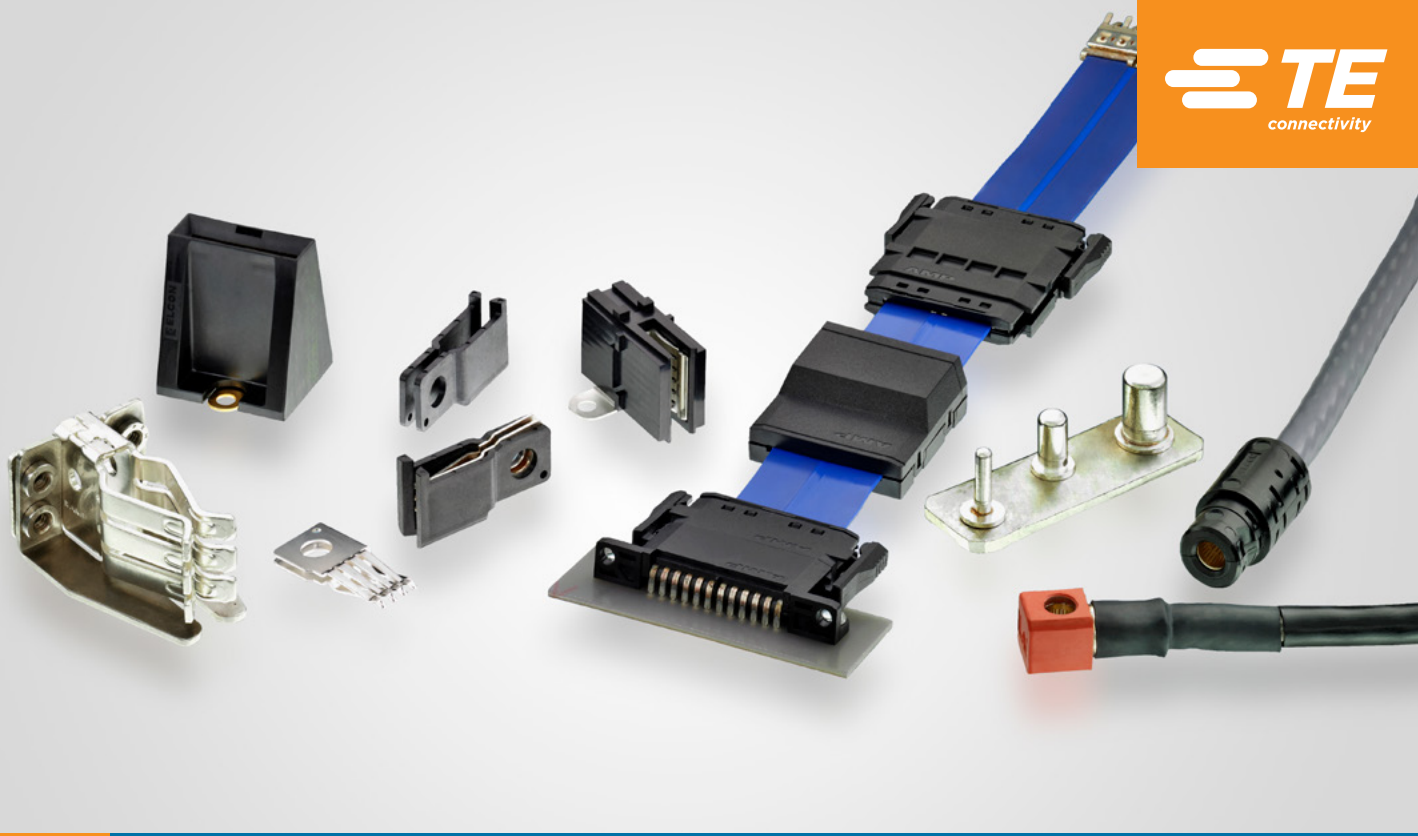




BUSBAR CONNECTIVITY

QUICK REFERENCE GUIDE

THINGS TO CONSIDER WHEN CHOOSING BUSBAR PRODUCTS

Application: Properties like dimensions, shape, isolation, plating, base material, and use of connector should be considered when choosing a busbar product.

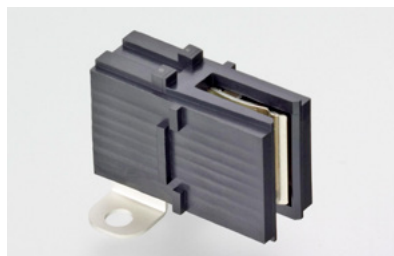
Current and Voltage: Does the connector require power only, or a combination of power and signal? How much current is required in the application? Keep in mind that busbar products performance is usually measured in amperes (or amps). The voltage is also highly important as it defines the spacing between the contacts and is related to safety requirements.

Hot-Pluggability: Will the application be mated while under electrical load? If so, a hot-pluggable connector is required. Many of the products in this guide have been approved for use in hot-plug applications.

TYPICAL POWER CONNECTOR APPLICATIONS

- Busbar based power distribution
- Power racks
- Rack mounted switching power supplies
- Core network energy systems
- Cellular base stations
- PSU power distribution
- Servers, storage & network routers
- Industrial
- Computer
- Modular power supply
- Alternative (green) energy systems
- Power inverters

CROWN CLIP Jr. Connectors

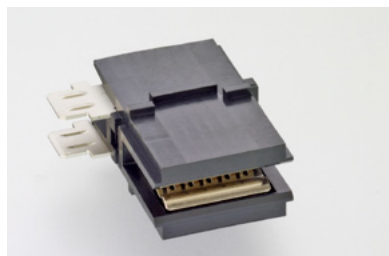


Screw Mount

Reference Part Number*

1982995-1 | 1982995-2

- Mates directly to a power bus bar
- Provides a space efficient interconnection in solder or screw mount configurations
- Low insertion/extraction forces
- Ideal for power supply/distribution applications
- Bus Bar misalignment: $\pm .75$ mm



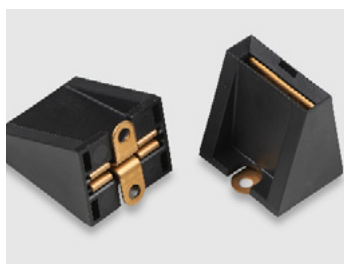
Solder Tail

Reference Part Numbers*

2178410-1 | 2178411-1 | 1551953-1

- Blind mate
- Hot pluggable
- Copper busbar, plated nickel or suitable alternative
- Current = 170A
- Anti Over Stress Feature
- Mating Bus Bar Thickness: 3.0 ± 0.1 mm

CROWN CLIP Sr. Connectors



CROWN CLIP Sockets

Reference Part Number*

1643906-1



CROWN CLIP II Sockets

Reference Part Number*

1643903-1



Dual CROWN CLIP Sockets

Reference Part Number*

1926671-1

CROWN CLIP Sockets Features:

- Compact, high-current, blind-mate design. Supports true hot-plug, complying with safety regulatory requirements for current interruption under load.
- Utilizes the well-known ELCON CROWN BAND contact technology.
- Mates to a solid blade (CROWN CLIP) or laminated bus bar tabs for feed and return currents (CROWN CLIP II and Dual CROWN CLIP).
- CROWN CLIP is a single pole, float mount socket provides up to 6 degrees of float. CROWN CLIP II is a dual pole, float-mount socket offering ± 1.0 mm of bus bar misalignment. Dual CROWN CLIP is a dual pole, feed-through socket allowing insertion of mating blade from both top or bottom of socket.
- Mating bus bar blades to be .125" (3.18mm) or .118" (3.00mm) thick. Insertion length .650" (16.50mm) minimum, 1.00" (25.40mm) maximum

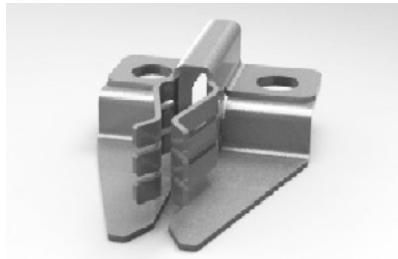
	Part Number	Length (mm [in1])	Width (mm [in1])	Comment	Rated Current	Current Interruption
CROWN CLIP	1643906-1	36.45 [1.435]	25.40 [1.000]	Single Pole	300A	100A at 48V 200A at 42V
CROWN CLIP II	1643903-1	36.45 [1.435]	25.40 [1.000]	Dual Pole	300A	100A at 48V 200A at 42V
Dual CROWN CLIP	1926671-1	35.56 [1.400]	25.40 [1.000]	Dual Pole	350A	100A at 60V 200A at 5V
CROWN CLIP Jr.	1982995-1 1982995-2 2178410-1 2178411-1 2178531-1 1551953-1	35.56 [1.400]	26.67 [1.050]	Feed Through	170A	-

*Part numbers listed are examples of some available samples, please visit website for additional and mating part numbers

Features

- Board-to-Busbar, Wire-to-Busbar, Board-to-Busbar
- Silver plated Copper alloy
- Mate with .125" or .062" thick plated bus bar providing a separable connection that eases assembly, inspection, and troubleshooting
- Ideal for computer, industrial control, modular power supply or other applications that demand low millivolt drop and reliable separation. Commonly used in rack-mounted equipment with bus bar architecture.
- Blind mateable (misalignment up to + .060" [1.52mm] for both series)

125 Series



Reference Part Number*
104502-1



Reference Part Number*
104501-1



Reference Part Number*
213647-1

- Contact Rated Current = 500 A
- 100 mating cycles minimum
- 1" [25.4mm] minimum width bus bar

Series	Part Number	Dimensions		
		"A" (Width)	"B" (Height)	"C" (Length)
125 Series Fits Busbar .125 [3.18] Thick	104502-1*	2.290 58.17	1.141 28.99	3.200 81.28
	104501-1*	.850 21.59	1.122 28.5	3.294 83.67
	213647-1	1.250 31.75	1.141 28.99	1.993 50.61
	2212011-1	1.25 31.8	1.01 25.8	2.00 50.9

*Busbar or Cable Power Feed

062 Series



Reference Part Number*
104729-1



Reference Part Number*
104742-2

Series	Part Number	Dimensions		
		"A" (Width)	"B" (Height)	"C" (Length)
062 Series Fits Busbar .062 [1.57] Thick	104729-1	1.360 34.54	.705 17.91	1.342 34.09
	104742-2	.356 9.04	.705 17.91	1.342 34.09

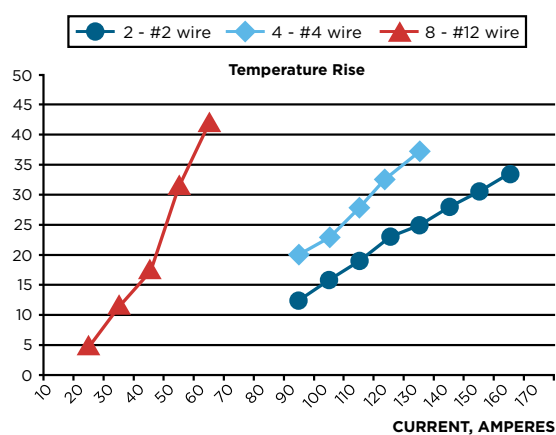
- Contact Rated Current = 250 A
- 50 cycle minimum
- ½" [12.7mm] minimum width busbar

*Part numbers listed are examples of some available samples, please visit website for additional and mating part numbers



Features

- Replacement for threaded studs
- No loose nuts = no fretting/heat rise
- Quick Connect/Disconnect
- Safety Locking feature
- Currents from 50A to 250A
- Wire sizes from 2.5 to 95mm²
- Color coding available
- Straight and right angle versions



Pin Contacts - Swage Type

Type	Type	Size	Current Rating	Part No
Pin Contact	Swage	#8	50A	6648221-1
Pin Contact	Swage	#4	120A	6648222-1
Pin Contact	Swage	#2	150A	6648223-1
Pin Contact	Swage	12mm	250A	1857523-3

Pin Sockets - Screw and Washer Type

Type	Type	Part No	Size	Current Rating
Pin Contact	Screw & Washer	2085957-1	#4	120A
Pin Contact	Screw & Washer	6648226-1	#2	150A

Socket Connectors - Right Angle

Part No	Size	Wire Size	Current Rating	Color*
6648237-1	#8	AWG #12		Black
6648228-1	#8	AWG #8	50A	Black
1766484-1	#8	AWG #6		Black
6648235-1	#4	AWG #8		Black
6648239-1	#4	AWG #6	110A	Black
6648236-1	#4	AWG #4		Black
6648238-1	#2	AWG #2	150A	Black
6648234-1	#2	AWG #0		Black
1857547-1	12mm	95mm ²	250A	Red

*Black, Red and Blue colors available

Insulation Boots

Part No	Size	Color
1651003-1	#4 #8	Black
1651003-2	#4 #8	Red
1651003-3	#4 #8	Grey
1651003-4	#4 #8	Blue
1766600-1	#2	Black
1766600-2	#2	Red
1766600-3	#2	Grey
1766600-4	#2	Blue

Socket Connectors - Straight

Type	Size	Wire Size	Current Rating	Color	Part No
Plastic locking hood	#8			Black	1643279-1
Plastic locking hood	#8			Red	1643279-2
Plastic locking hood	#8			Blue	1643279-3
Socket contact	#8	#8	50A		6648317-1
Plastic locking hood	#4			Black	1651766-1
Socket contact	#4	#4	120A		6648434-1

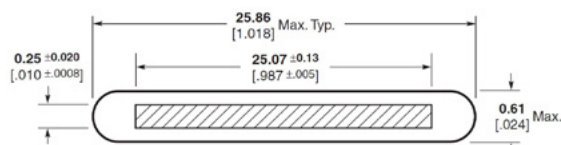
Part numbers listed are examples of some available samples, please visit website for additional and mating part numbers

Features

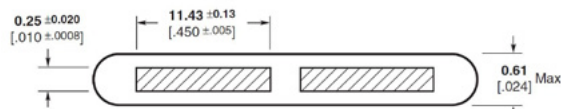
- Insulated flat copper cable conductors and associated interface components enable solutions to power distribution challenges through its unmatched packaging flexibility.
- Single and dual conductor cable types with various conductor and insulation thicknesses available. Standard cable types support 80-135 Amps and operating voltages up to 600V.
- Flat power cables offer a number of advantages over both round jacketed power cables or traditional bus bars.
- Variety of interfaces for end of cable or mid-cable terminations enable high application versatility and customization.
- Flat cables can be easily formed and will hold their shape, enabling high packaging flexibility. Cables can be easily routed through confined spaces.
- Fully touch-safe. Less copper compared to round jacketed cable; therefore less weight and lower cost per ampere of rated current.

Copper Cable Options

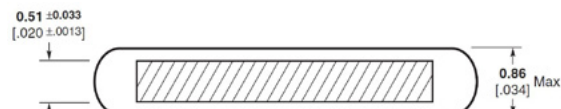
Part Number	Width (mm [in1])	Thickness (mm [in1])	Copper Conductor(s) W (inch[mm]) x T (inch [mm])	Color	Operating Voltage	Max Current (A)
1-765210-7	1.018 (25.86)	0.024 (0.61)	1 x 0.987 (25.07) x 0.01 (0.25)	Blue	300	80
1-765210-8	1.018 (25.86)	0.034 (0.86)	1 x 0.987 (25.07) x 0.02 (0.51)	Blue	300	110
1-765210-9	1.018 (25.86)	0.024 (0.61)	2 x 0.45 (11.43) x 0.01 (0.25)	Blue	300	40/40
2-765210-0	1.018 (25.86)	0.034 (0.86)	2 x 0.45 (11.43) x 0.02 (0.51)	Blue	300	55/55
2-765210-3	0.484 (12.29)	0.024 (0.61)	1 x 0.45 (11.43) x 0.01 (0.25)	Blue	300	40
2-765210-4	0.484 (12.29)	0.034 (0.86)	1 x 0.45 (11.43) x 0.02 (0.51)	Blue	300	55
2-765210-5	1.018 (25.86)	0.044 (1.12)	1 x 0.987 (25.07) x 0.03 (0.76)	Red	300	135
2-765210-6	1.018 (25.86)	0.052 (1.32)	1 x 0.987 (25.07) x 0.03 (0.76)	Red	600	135
2-765210-7	1.018 (25.86)	0.052 (1.32)	1 x 0.987 (25.07) x 0.03 (0.76)	Blue	600	135
2-765210-8	0.484 (12.29)	0.034 (0.86)	1 x 0.45 (11.43) x 0.02 (0.51)	Red	300	55
2-765210-9	1.018 (25.86)	0.034 (0.86)	2 x 0.45 (11.43) x 0.02 (0.51)	Red	300	55/55
3-765210-0	1.018 (25.86)	0.034 (0.86)	1 x 0.987 (25.07) x 0.02 (0.51)	Red	300	110



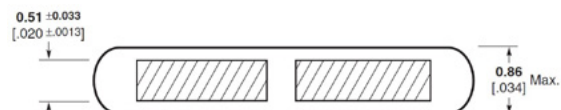
Single Conductor



Dual Conductor



Single Conductor



Dual Conductor

Circular MILS	Approx AWG	Amps
Per Conductor		

12,566	9	80
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5,729	13	40/40
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25,133	6	110
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11,459	10	55/55
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Cable-to-Cable Connectors

Part Number	Description	Tail Type	Tail Length (inch)
765191-1	slim plug	N/A	N/A
765478-1	slim receptacle	N/A	N/A
766569-1	Cable to Cable Receptacle PM*	N/A	N/A
766569-1 PM needs:	765530-1, 765245-1	N/A	N/A
766569-1	Cable to Cable Receptacle STR**	N/A	N/A
766569-1 STR needs:	765529-1, 765245-1	N/A	N/A

*PM = Panel Mount

**STR = Squeeze-to-Release



Cable Receptacle



Mid-Cable Termination
.250 FASTON Tab Tap



PCB-Mounted Header

Blindmate PCB-Mounted Headers

Part Number	Description	Tail Type	Tail Length (inch)
5765527-1	2 Cable Vert Header	Solder	0.131
5765527-2	2 Cable Vert Header	Solder	0.165
765608-1	2 Cable R/A Header	Solder	0.273
5765208-1	4 Cable Vert header	Solder	0.131
5765208-2	4 Cable Vert header	Solder	0.165
5765208-3	4 Cable Vert header	Solder	0.235
5765208-4	4 Cable Vert header	Solder	0.305
766510-1	4 Cable R/A Header	Solder	0.273
765208-5	4 Cable Vert header	Press Fit	0.144

PCB Mounted Headers

Part Number	Description	Tail Type	Tail Length (inch)
1-765206-7	slim vert header	Solder	0.131
1-765206-8	slim vert header	Solder	0.165
1-765206-9	slim vert header	Solder	0.225
2-765206-0	slim vert header with eyelet	Solder	0.131
765271-1	slim vert header	Press Fit	0.144
765204-5	slim R/A header	Solder	0.124
765204-6	slim R/A header	Solder	0.165

Mid-Cable Terminations

Part Number	Description	Tail Type	Tail Length (inch)
765277-1	Tap	N/A	N/A
765311-1	Side Tap, R/A	N/A	N/A
765275-1	Side Tap, Jogged	N/A	N/A
765276-1	.250 FASTON Tab Tap	N/A	N/A

Blindmate Cable-Mounted Receptacles

Part Number	Description	Tail Type	Tail Length (inch)
765528-1	2 Cable housing	N/A	N/A
765528-1 needs:	765529-1, 765209-1, 768209-2	N/A	N/A
765247-1	4 Cable housing	N/A	N/A
765247-1 needs:	765248-1, 765209-1, 768209-2	N/A	N/A

Terminal Block Interface

Part Number	Description	Centerline [inch,(mm)]	Hole Size [inch,(mm)]
765228-1	Full-Width Cover		
765216-1	Termination Assembly, .562	0.562 (14.27)	0.171 x 0.250 (4.34 x 6.35)
765225-1	Termination Assembly, .688	0.688 (17.48)	0.270 x 0.296 (6.86 x 7.52)
765229-1	Half-Width Cover		
765216-1	Termination Assembly, .562	0.562 (14.27)	0.171 x 0.250 (4.34 x 6.35)
765225-1	Termination Assembly, .688	0.688 (17.48)	0.270 x 0.296 (6.86 x 7.52)

Stud Interface

Part Number	Description	Stud Size [inch,(mm)]	Hole Size [inch,(mm)]
765228-1	Cover		
765226-1	Termination Assembly for 1/4	0.250 (6.35)	0.266 (6.76)
765226-2	Termination Assembly for 5/16	0.312 (7.92)	0.328 (8.33)

Associated Content

Open Compute Project (OCP) Bus Bar Clip and Cable Assemblies QRG ([Doc # 1-1773867-8](#))

2-Piece Power Connectors QRG ([Doc # 4-17773458-1](#))

TE also has a broad offering of **cable-mounted** bus bar connectivity solutions; contact TE for more details.

For More Information

TE Technical Support Center

USA:	1.800.522.6752
Canada:	1.905.475.6222
Mexico:	52.0.55.1106.0800
Latin/S. America:	54.0.11.4733.2200
Germany:	49.0.6251.133.1999
UK:	44.0.800.267666
France:	33.0.1.3420.8686
Netherlands:	31.0.73.6246.999
China:	86.0.400.820.6015

te.com/products/busbar

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