

# Hook-Up Wire



# Everything You Need to Hook Up Anything



**T**he broad range of hook-up wire from Alpha Wire means you will find the wire exactly suited to your application—whether it’s as straightforward as a control cabinet in a protected environment or as specialized as a machine tool on the factory floor, a high-temperature oven, or off-road construction equipment. Our hook-up wire is available in a variety of insulation to meet

**your needs for temperature, ability to withstand wear and abrasion, electrical properties, and resistance to oil, solvents, and chemicals.**

- Stranded and solid copper conductors, bare or tinned, with other platings available for special application needs
- Broad range of insulations
- Color-coded insulation for easy circuit identification

- UL, CSA, and mil-spec compliance
- Convenient put-ups as short as 100 feet
- Excellent uniformity for easy handling, stripping, and termination



| Choice of Insulations to Meet Temperature Range and Mechanical and Environmental Requirements |                              |                   |                                                                                                                                                                                                                             |          |
|-----------------------------------------------------------------------------------------------|------------------------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| Insulation                                                                                    | Material                     | Temperature Range | Features                                                                                                                                                                                                                    | Page No. |
| PVC                                                                                           | Polyvinyl chloride           | -55°C to +105°C   | General-purpose insulation<br>Good abrasion resistance<br>Excellent flame resistance                                                                                                                                        | 4        |
| XL-PVC                                                                                        | Cross-linked PVC             | -55°C to +105°C   | Better abrasion and cut-through resistance than standard PVC<br>Improved temperature and solder iron resistance over standard PVC<br>Used in high-density wiring                                                            | 7, 8     |
| PTFE                                                                                          | Polytetrafluoroethylene      | -55°C to +200°C   | High temperature<br>Chemically inert: excellent chemical and solvent resistance<br>Excellent electrical properties                                                                                                          | 10       |
| XLPE                                                                                          | Cross-linked polyethylene    | -55°C to +125°C   | Higher temperature rating than PVC                                                                                                                                                                                          | 8        |
| Silicone                                                                                      | Silicone                     | -40°C to +150°C   | High-voltage material<br>Excellent flexibility<br>Excellent dielectric strength and resistance to radiation, corona, and ozone                                                                                              | 12       |
| PDVF                                                                                          | Polyvinylidene fluoride      | -40°C to +125°C   | Widely used in wire wrap applications                                                                                                                                                                                       | 12       |
| ETFE                                                                                          | Ethylene tetrafluoroethylene | -70°C to +150°C   |                                                                                                                                                                                                                             | 11       |
| MG                                                                                            | Mica glass                   | +450°C            | High-temperature applications, such as heat-treating furnaces, kilns, and food service equipment<br>Excellent thermal stability                                                                                             | 14       |
| mPPE                                                                                          | Modified polyphenylene ether | -40°C to +105°C   | Modified polyphenylene ether insulation (mPPE)<br>Lighter, tougher, and more durable than PVC<br>Meets RoHS and WEEE requirements, 100% recyclable<br>45% smaller diameter, 40% lighter                                     | 16       |
| mPPE*                                                                                         | Modified polyphenylene ether | -40°C to +110°C   | All the environmental benefits and abrasion resistance characteristics of EcoWire; 100% recyclable<br>Excellent resistance to oils, chemicals, solvents, and fuels<br>Meets ISO 6722 for thin-wall and ultra-thin wall wire | 16       |

\*EcoWire® Plus

| Choice of Features and Approvals by Application |            |                  |         |                                            |                   |                   |                 |
|-------------------------------------------------|------------|------------------|---------|--------------------------------------------|-------------------|-------------------|-----------------|
| Voltage                                         | Insulation | Wire Range (AWG) |         | Approvals                                  |                   | Temperature Range | Page No.        |
|                                                 |            | Stranded         | Solid   | UL                                         | CSA               |                   |                 |
| UL/CSA                                          |            |                  |         |                                            |                   |                   |                 |
| 150                                             | XL-PVC     | 26 - 16          | —       | CSA AWM I A/B FT1                          |                   | -55°C to +105°C   | 7               |
|                                                 |            |                  |         | UL AWM 1429                                |                   | -55°C to +80°C    |                 |
|                                                 |            | XLPE             | 22 - 18 | —                                          | UL AWM 3265       | CSA AWM I A/B FT1 | -55°C to +125°C |
| 300                                             |            |                  |         | UL AWM 1569                                |                   | -40°C to +105°C   | 4               |
|                                                 | PVC        | 30 - 16          | 24 - 16 | UL AWM 1007                                |                   | -40°C to +80°C    |                 |
|                                                 |            |                  |         | CSA TR-64                                  |                   | -40°C to +90°C    |                 |
|                                                 | SR-PVC     | 30 - 16          | —       | UL AWM 1061                                | CSA AWM I A/B FT1 | -10°C to +80°C    | 4               |
|                                                 | XL-PVC     | 26 - 16          | —       | UL AWM 1430                                | CSA REW XL-PVC    | -55°C to +105°C   | 8               |
|                                                 | XLPE       | 22 - 18          | —       | UL AWM 3266                                | CSA CL 1252 XLPE  | -55°C to +125°C   | 9               |
|                                                 | PTFE       | 24 - 8           | —       | UL AWM 1180                                |                   | -60°C to +200°C   | 11              |
| 600                                             | PVC        | 24 - 10          | 26 - 10 | UL AWM 1015, 1230<br>UL MTW, THW, TW       | CSA TEW-105       | -20°C to +105°C   | 5               |
|                                                 |            | 8 - 4/0          | —       | UL AWM 1242, 1284                          |                   | -20°C to +105°C   |                 |
|                                                 | XLPE       | 18 - 10          | —       | UL AWM 3271                                | CSA CL 1251 XLPE  | -55°C to +125°C   | 8               |
|                                                 | XLPE       | 20 - 2/0         | —       | UL AWM 3173, 3195, 3196,<br>3300 SIS Rated |                   | -55°C to +125°C   | 9               |
|                                                 | Silicone   | 22 - 4/0         | —       | UL AWM 3212, 3213, 3214                    | CSA AWM I A/B FT2 | -40°C to +150°C   | 12              |
| 10,000+                                         | Silicone   | 22 - 2           | —       | UL AWM 3239                                |                   | -40°C to +150°C   | 13              |
| Military                                        |            |                  |         |                                            |                   |                   |                 |
| 250                                             | PTFE       | 32 - 22          | 30 - 26 | MIL-DTL-16787/6 (Type ET)                  |                   | -60°C to +200°C   | 10              |
| 600                                             | XL-PVC     | 26 - 16          | —       | MIL-DTL-16878/1 (Type B)                   |                   | -55°C to +105°C   | 7               |
| 600                                             | PVC        | 32 - 14          | —       | MIL-DTL-16878/1 (Type B)                   |                   | -55°C to +105°C   | 6               |
|                                                 | PVC        | 14 - 8           | —       | MIL-W-76B Type HW                          |                   | -20°C to +80°C    | 6               |
|                                                 | PTFE       | 30 - 10          | 26 - 18 | MIL-DTL-16878/4 (Type E)                   |                   | -60°C to +200°C   | 10              |
| 1000                                            | XL-PVC     | 26 - 16          | —       | MIL-DTL-16878/1 (Type C)                   |                   | -55°C to +105°C   | 8               |
|                                                 | PVC        | 24 - 12          | 24 - 18 | MIL-DTL-16878/1 (Type C)                   |                   | -40°C to +80°C    | 8               |
|                                                 | XLPE       | 22 - 18          | —       | MIL-DTL-16878/1 (Type C)                   |                   | -55°C to +105°C   | 9               |
|                                                 | PTFE       | 24 - 8           | —       | MIL-DTL-16878/5 (Type EE)                  |                   | -60°C to +200°C   | 11              |
| 3000                                            | XLPE       | 18 - 10          | —       | MIL-DTL-16878/1 (Type D)                   |                   | -55°C to +105°C   | 8               |
| Wire Wrap                                       |            |                  |         |                                            |                   |                   |                 |
|                                                 | PVDF       | —                | 30 - 24 | UL 1422, 1423                              |                   | -40°C to +125°C   | 12              |
|                                                 | ETFE       | —                | 30 - 24 | UL 1516, 1523                              |                   | -70°C to +150°C   | 12              |
| Ribbon Cable: 5 to 30 Conductors                |            |                  |         |                                            |                   |                   |                 |
| 150/600                                         | PVC        | 26 - 22          | —       | UL 2713, 2555                              |                   | -55°C to +80°C    | 17              |
| 300/1000                                        | PVC        | 26 - 22          | —       | MIL-W-16878/1 (Types B & C)                |                   | -55°C to +105°C   | 18              |
| Bus Bar Wire                                    |            |                  |         |                                            |                   |                   |                 |
|                                                 | —          | —                | 30 - 12 | A-A59551                                   |                   |                   | 18              |

## Bulk Hook-Up Wire

We support your high-volume needs with large put-ups for a wide range of both military and UL style PVC hook-up wire.

Bulk PVC wire options include:

- Stranded and solid conductors
- Bare or tinned copper
- Standard and semirigid PVC
- Variety of temperature ranges

For additional information, visit **[www.alphawire.com](http://www.alphawire.com)**

# 600 V, mPPE Wire

## EcoWire®



Innovative EcoWire combines increased performance with a minimized environmental impact. Compared to PVC wire, EcoWire's modified polyphenylene ether (mPPE) insulation allows wire that are:

- Up to 45% smaller in diameter
- Up to 40% lighter
- Non-halogenated, with no heavy metal pigments
- 100% recyclable

**UL AWM 11028 VW-1**  
**CSA AWM I A/B FT1**  
**IEC 60332-2 Flame Behavior**  
**RoHS/RoHS2 Compliant**  
**REACH Compliant**  
**Halogen-Free**  
**CE compliant**

-40°C to +105°C

Stranded or solid tinned copper conductors

Modified polyphenylene ether insulation

| Part No.     | Conductor Size |                 | Stranding |            | Insulation Thickness |      | Wire Diameter |      |
|--------------|----------------|-----------------|-----------|------------|----------------------|------|---------------|------|
|              | AWG            | mm <sup>2</sup> | AWG       | mm         | Inch                 | mm   | Inch          | mm   |
| <b>6710</b>  | 28             | 0.08            | 7/36      | 7 x 0.12   | 0.010                | 0.25 | 0.034         | 0.86 |
| <b>6711</b>  | 26             | 0.13            | 7/34      | 7 x 0.16   | 0.010                | 0.25 | 0.038         | 0.97 |
| <b>6712</b>  | 24             | 0.20            | 7/32      | 7 x 0.20   | 0.010                | 0.25 | 0.043         | 1.09 |
| <b>6713</b>  | 22             | 0.32            | 7/30      | 7 x 0.25   | 0.010                | 0.25 | 0.049         | 1.24 |
| <b>6714</b>  | 20             | 0.52            | 10/30     | 10 x 0.25  | 0.010                | 0.25 | 0.055         | 1.40 |
| <b>6715</b>  | 18             | 0.82            | 16/30     | 16 x 0.25  | 0.010                | 0.25 | 0.067         | 1.70 |
| <b>6715S</b> | 18             | 0.82            | Solid     | Solid      | 0.010                | 0.25 | 0.059         | 1.50 |
| <b>6716</b>  | 16             | 1.30            | 26/30     | 26 x 0.25  | 0.011                | 0.28 | 0.081         | 2.06 |
| <b>6717</b>  | 14             | 2.08            | 41/30     | 41 x 0.25  | 0.011                | 0.28 | 0.096         | 2.44 |
| <b>6717S</b> | 14             | 2.08            | Solid     | Solid      | 0.011                | 0.28 | 0.086         | 2.18 |
| <b>6718</b>  | 12             | 3.30            | 65/30     | 65 x 0.25  | 0.012                | 0.30 | 0.117         | 2.97 |
| <b>6719</b>  | 10             | 5.26            | 105/30    | 105 x 0.25 | 0.012                | 0.30 | 0.142         | 3.66 |

White, Black, Red, Green, Yellow, Blue, Brown, Orange, Slate, Violet, Yellow/Green, Dark Blue

### Availability

100 ft (30.5 m)  
 1000 ft (305 m)  
 5000 ft (1524 m)  
 25,000 ft (7620 m) drum



EcoWire and EcoWire Plus are part of the EcoGen family of weight- and space-saving, environmentally friendly wires and cables.

# 300 V, mPPE Wire

## EcoWire® Plus

All the benefits of EcoWire, plus higher temperature range and additional fluid resistance for demanding factory applications.

**ISO 6722 Ultra Thin Wall**  
**ISO 6722 Thin Wall**  
**RoHS Compliant**  
**REACH Compliant**  
**Halogen-Free**  
**CE compliant**

-40°C to +110°C

Stranded bare copper conductors

Modified polyphenylene ether insulation

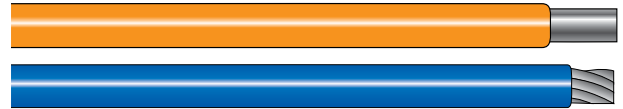
| Part No.    | Conductor Size |                 |               | Stranding |           | Insulation Thickness |      | Wire Diameter |      |
|-------------|----------------|-----------------|---------------|-----------|-----------|----------------------|------|---------------|------|
|             | AWG            | mm <sup>2</sup> | ISO mm Equiv. | AWG       | mm        | Inch                 | mm   | Inch          | mm   |
| <b>6820</b> | 28             | 0.09            | —             | 7/36      | 7 x 0.12  | 0.008                | 0.20 | 0.031         | 0.79 |
| <b>6821</b> | 26             | 0.14            | 0.13          | 7/34      | 7 x 0.16  | 0.008                | 0.20 | 0.035         | 0.89 |
| <b>6822</b> | 24             | 0.23            | 0.22          | 7/32      | 7 x 0.20  | 0.008                | 0.20 | 0.040         | 1.02 |
| <b>6823</b> | 22             | 0.35            | 0.35          | 7/30      | 7 x 0.25  | 0.008                | 0.20 | 0.046         | 1.17 |
| <b>6824</b> | 20             | 0.56            | 0.5           | 7/28      | 7 x 0.32  | 0.008                | 0.20 | 0.054         | 1.37 |
| <b>6825</b> | 18             | 0.81            | 0.75          | 19/0.0092 | 19 x 0.23 | 0.008                | 0.20 | 0.062         | 1.57 |
| <b>6826</b> | 17             | 0.96            | 1             | 19/30     | 19 x 0.25 | 0.008                | 0.20 | 0.066         | 1.68 |
| <b>6827</b> | 16             | 1.23            | —             | 19/29     | 19 x 0.29 | 0.010                | 0.24 | 0.077         | 1.96 |
| <b>6828</b> | 15             | 1.53            | 1.5           | 19/28     | 19 x 0.32 | 0.010                | 0.24 | 0.083         | 2.11 |
| <b>6829</b> | 14             | 1.94            | 2             | 19/27     | 19 x 0.36 | 0.012                | 0.30 | 0.095         | 2.41 |
| <b>6830</b> | 12             | 3.08            | 3             | 19/25     | 19 x 0.46 | 0.015                | 0.38 | 0.120         | 3.05 |
| <b>6831</b> | 10             | 4.92            | 5             | 19/23     | 19 x 0.57 | 0.017                | 0.43 | 0.147         | 3.73 |

White, Black, Red, Green, Yellow, Blue, Brown, Orange, Green/Yellow

### Availability

100 ft (30.5 m)  
 1000 ft (305 m)

## 300 V, PVC Wire



### UL AWM 1007, 1581, 1569 VW-1 CSA AWM I A/B FT1 CSA TR-64 FT1

-40°C to +105°C  
(AWM 1569, CSA AWM)  
-40°C to +90°C (CSA TR-64)  
-40°C to +80°C  
(AWM 1007, 1581)

Stranded or solid tinned  
copper conductor  
PVC insulation

#### Availability

100 ft (30.5 m)  
1000 ft (305 m)

| Part No.                   | Wire Size |                 | Stranding |            | Insulation Thickness |      | Nominal Diameter |      | Colors             |
|----------------------------|-----------|-----------------|-----------|------------|----------------------|------|------------------|------|--------------------|
|                            | AWG       | mm <sup>2</sup> | AWG       | mm         | Inch                 | mm   | Inch             | mm   |                    |
| <b>3047</b>                | 30        | 0.06            | 7/38      | 7 x 0.10   | 0.016                | 0.41 | 0.044            | 1.12 | Z1, 1 - 10         |
| <b>3048</b>                | 28        | 0.09            | 7/36      | 7 x 0.13   | 0.016                | 0.41 | 0.047            | 1.19 | Z1, 1 - 10         |
| <b>3049</b>                | 26        | 0.14            | 7/34      | 7 x 0.16   | 0.016                | 0.41 | 0.051            | 1.30 | Z1, 1 - 10         |
| <b>3050/1</b>              | 24        | 0.20            | Solid     | 1 x 0.51   | 0.016                | 0.41 | 0.052            | 1.32 | Z1, 1 - 10         |
| <b>3050</b>                | 24        | 0.23            | 7/32      | 7 x 0.20   | 0.016                | 0.41 | 0.056            | 1.42 | Z1, 1 - 19, 28, 30 |
| <b>892419<sup>†</sup></b>  | 24        | 0.24            | 19/36     | 19 x 0.13  | 0.016                | 0.41 | 0.057            | 1.45 | Z2, 0 - 9          |
| <b>3051/1</b>              | 22        | 0.32            | Solid     | 1 x 0.64   | 0.016                | 0.41 | 0.057            | 1.45 | Z1, 1 - 10         |
| <b>3051</b>                | 22        | 0.35            | 7/30      | 7 x 0.25   | 0.016                | 0.41 | 0.062            | 1.57 | Z1, 1 - 19, 28, 30 |
| <b>892219<sup>†</sup></b>  | 22        | 0.38            | 19/34     | 19 x 0.16  | 0.016                | 0.41 | 0.064            | 1.63 | Z2, 0 - 9          |
| <b>3053</b>                | 20        | 0.51            | 10/30     | 10 x 0.25  | 0.016                | 0.41 | 0.069            | 1.75 | Z1, 1 - 19, 28, 30 |
| <b>3053/1</b>              | 20        | 0.52            | Solid     | 1 x 0.81   | 0.016                | 0.41 | 0.064            | 1.63 | Z1, 1 - 10         |
| <b>892007<sup>†</sup></b>  | 20        | 0.56            | 7/28      | 7 x 0.32   | 0.016                | 0.41 | 0.070            | 1.78 | Z2, 0 - 9          |
| <b>892019<sup>†</sup></b>  | 20        | 0.62            | 19/32     | 19 x 0.20  | 0.016                | 0.41 | 0.072            | 1.83 | Z2, 0 - 9          |
| <b>3055</b>                | 18        | 0.81            | 16/30     | 16 x 0.25  | 0.016                | 0.41 | 0.079            | 2.01 | Z1, 1 - 19, 28, 30 |
| <b>3055/1</b>              | 18        | 0.82            | Solid     | 1 x 1.02   | 0.016                | 0.41 | 0.072            | 1.83 | Z1, 1 - 10         |
| <b>891819<sup>†</sup></b>  | 18        | 0.96            | 19/30     | 19 x 0.25  | 0.016                | 0.41 | 0.082            | 2.08 | Z2, 0 - 9          |
| <b>3057/1</b>              | 16        | 1.31            | Solid     | 1 x 1.29   | 0.016                | 0.41 | 0.083            | 2.11 | Z1, 1 - 10         |
| <b>3057</b>                | 16        | 1.32            | 26/30     | 26 x 0.25  | 0.016                | 0.41 | 0.092            | 2.34 | Z1, 1 - 19, 28, 30 |
| <b>891441<sup>†</sup></b>  | 14        | 2.08            | 41/30     | 41 x 0.25  | 0.016                | 0.41 | 0.106            | 2.69 | Z2, 0 - 9          |
| <b>891265<sup>††</sup></b> | 12        | 3.30            | 65/30     | 65 x 0.25  | 0.016                | 0.41 | 0.125            | 3.18 | Z2, 0 - 9          |
| <b>891000<sup>††</sup></b> | 10        | 5.32            | 105/30    | 105 x 0.25 | 0.016                | 0.41 | 0.150            | 3.81 | Z2, 0 - 9          |

**Z1 Insulation Colors:** 1 White • 2 Black • 3 Red • 4 Green • 5 Yellow • 6 Blue • 7 Brown • 8 Orange • 9 Slate • 10 Violet • 11 White/Black • 12 White/Red • 13 White/Green • 14 White/Yellow • 15 White/Blue • 16 White/Brown • 17 White/Orange • 18 White/Slate • 19 White/Violet • 28 Green/Yellow • 29 Yellow/Green • 30 Pink

**Z2 Insulation Colors:** 0 Black • 1 Brown • 2 Red • 3 Orange • 4 Yellow • 5 Green • 6 Blue • 7 Violet • 8 Slate • 9 White

<sup>†</sup>These wires also available in 500 ft (152 m) put-ups.

## 300 V, Semirigid PVC Wire



### UL AWM 1061 VW-1 CSA AWM I A/B FT1

-10°C to +80°C  
Stranded or solid tinned  
copper conductor  
Semirigid PVC insulation

#### Availability

100 ft (30.5 m)  
1000 ft (305 m)

| Part No.      | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      | Colors |
|---------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|--------|
|               | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |        |
| <b>422807</b> | 28        | 0.09            | 7/36      | 7 x 0.13  | 0.010                | 0.25 | 0.035            | 0.89 | Z2     |
| <b>422801</b> | 28        | 0.08            | Solid     | 1 x 0.32  | 0.010                | 0.25 | 0.033            | 0.84 | Z2     |
| <b>422607</b> | 26        | 0.14            | 7/34      | 7 x 0.16  | 0.010                | 0.25 | 0.039            | 0.99 | Z2     |
| <b>422601</b> | 26        | 0.13            | Solid     | 1 x 0.40  | 0.010                | 0.25 | 0.036            | 0.91 | Z2     |
| <b>3250</b>   | 24        | 0.23            | 7/32      | 7 x 0.20  | 0.010                | 0.25 | 0.044            | 1.12 | Z1     |
| <b>3251</b>   | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.010                | 0.25 | 0.050            | 1.27 | Z1     |
| <b>422010</b> | 20        | 0.51            | 10/30     | 10 x 0.25 | 0.010                | 0.25 | 0.057            | 1.45 | Z2     |
| <b>3252</b>   | 20        | 0.56            | 7/28      | 7 x 0.32  | 0.010                | 0.25 | 0.058            | 1.47 | Z1     |
| <b>422001</b> | 20        | 0.52            | Solid     | 1 x 0.81  | 0.010                | 0.25 | 0.052            | 1.32 | Z2     |
| <b>421816</b> | 18        | 0.81            | 16/30     | 16 x 0.25 | 0.010                | 0.25 | 0.067            | 1.70 | Z2     |
| <b>3253</b>   | 18        | 0.90            | 7/26      | 7 x 0.40  | 0.010                | 0.25 | 0.068            | 1.73 | Z1     |
| <b>421626</b> | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.010                | 0.25 | 0.080            | 2.03 | Z2     |
| <b>3254</b>   | 16        | 1.43            | 7/24      | 7 x 0.51  | 0.010                | 0.25 | 0.080            | 2.03 | Z1     |

**Z1 Insulation Colors:** 1 White • 2 Black • 3 Red • 4 Green • 5 Yellow • 6 Blue • 7 Brown • 8 Orange • 9 Slate • 10 Violet

**Z2 Insulation Colors:** 0 Black • 1 Brown • 2 Red • 3 Orange • 4 Yellow • 5 Green • 6 Blue • 7 Violet • 8 Slate • 9 White

# 600 V, PVC Wire



**UL AWM 1015, 1028, 1230, 1231, 1232, 1283, 1284**  
**UL MTW (22 to 1/0 AWG)**  
**UL THW (6 to 1/0 AWG)**  
**CSA AWM I A/B FT1 and TEW 105**  
**UL VW-1**

-20°C to +105°C (AWM, TEW)  
 -20°C to +90°C (MTW)  
 -20°C to +75°C (THW)  
 -20°C to +60°C (TW)

Stranded or solid tinned copper conductor

## Availability

100 ft (30.5 m)  
 1000 ft (305 m)

| Part No.       | Wire Size |                 | Stranding |             | Insulation Thickness |      | Nominal Diameter |       | UL Style   | Colors         |
|----------------|-----------|-----------------|-----------|-------------|----------------------|------|------------------|-------|------------|----------------|
|                | AWG       | mm <sup>2</sup> | AWG       | mm          | Inch                 | mm   | Inch             | mm    |            |                |
| <b>782607*</b> | 26        | 0.14            | 7/34      | 7 x 0.16    | 0.032                | 0.81 | 0.083            | 2.11  | 1015, 1230 | Z2, 0 - 9      |
| <b>782401*</b> | 24        | 0.20            | Solid     | 1 x 0.51    | 0.032                | 0.81 | 0.084            | 2.13  | 1015, 1230 | Z2, 0 - 9      |
| <b>3070*</b>   | 24        | 0.23            | 7/32      | 7 x 0.20    | 0.032                | 0.81 | 0.088            | 2.24  | 1015, 1230 | Z1, 1 - 10, 28 |
| <b>782201</b>  | 22        | 0.32            | Solid     | 1 x 0.64    | 0.032                | 0.81 | 0.089            | 2.26  | 1015, 1230 | Z2, 0 - 9      |
| <b>3071</b>    | 22        | 0.35            | 7/30      | 7 x 0.25    | 0.032                | 0.81 | 0.094            | 2.39  | 1015, 1230 | Z1, 1 - 10, 28 |
| <b>782010T</b> | 20        | 0.51            | 10/30     | 10 x 0.25   | 0.032                | 0.81 | 0.101            | 2.57  | 1015, 1230 | Z2, 0 - 9      |
| <b>3073</b>    | 20        | 0.51            | 10/30     | 10 x 0.25   | 0.032                | 0.81 | 0.101            | 2.57  | 1015, 1230 | Z1, 1 - 10, 28 |
| <b>782001</b>  | 20        | 0.52            | Solid     | 1 x 0.81    | 0.032                | 0.81 | 0.096            | 2.44  | 1015, 1230 | Z2, 0 - 9      |
| <b>3075</b>    | 18        | 0.81            | 16/30     | 16 x 0.25   | 0.032                | 0.81 | 0.111            | 2.82  | 1015, 1230 | Z1, 1 - 10, 28 |
| <b>781801</b>  | 18        | 0.82            | Solid     | 1 x 1.02    | 0.032                | 0.81 | 0.104            | 2.64  | 1015, 1230 | Z2, 0 - 9      |
| <b>781601</b>  | 16        | 1.31            | Solid     | 1 x 1.29    | 0.032                | 0.81 | 0.115            | 2.92  | 1015, 1230 | Z2, 0 - 9      |
| <b>3077</b>    | 16        | 1.32            | 26/30     | 26 x 0.25   | 0.032                | 0.81 | 0.124            | 3.15  | 1015, 1230 | Z1, 1 - 10, 28 |
| <b>781401</b>  | 14        | 2.08            | Solid     | 1 x 1.63    | 0.032                | 0.81 | 0.128            | 3.25  | 1015, 1230 | Z2, 0 - 9      |
| <b>3079</b>    | 14        | 2.08            | 41/30     | 41 x 0.25   | 0.032                | 0.81 | 0.138            | 3.51  | 1015, 1230 | Z1, 1 - 10, 28 |
| <b>3080</b>    | 12        | 3.29            | 65/30     | 65 x 0.25   | 0.032                | 0.81 | 0.157            | 3.99  | 1015, 1230 | Z1, 1 - 10     |
| <b>781201</b>  | 12        | 3.31            | Solid     | 1 x 2.06    | 0.032                | 0.81 | 0.145            | 3.68  | 1015, 1230 | Z2, 0 - 9      |
| <b>781001</b>  | 10        | 5.26            | Solid     | 1 x 2.59    | 0.032                | 0.81 | 0.166            | 4.22  | 1015, 1230 | Z2, 0 - 9      |
| <b>3081</b>    | 10        | 5.32            | 105/30    | 105 x 0.25  | 0.032                | 0.81 | 0.184            | 4.67  | 1015, 1230 | Z1, 1 - 4      |
| <b>788133</b>  | 8         | 8.61            | 133/29    | 133 x 0.29  | 0.047                | 1.19 | 0.263            | 6.68  | 1028, 1231 | Z2, 0 - 9      |
| <b>786133</b>  | 6         | 13.57           | 133/27    | 133 x 0.36  | 0.063                | 1.60 | 0.336            | 8.53  | 1283, 1232 | Z2, 0 - 9      |
| <b>784133</b>  | 4         | 21.55           | 133/25    | 133 x 0.45  | 0.063                | 1.60 | 0.395            | 10.03 | 1283, 1232 | Z2, 0 - 9      |
| <b>782665</b>  | 2         | 33.72           | 665/30    | 665 x 0.25  | 0.063                | 1.60 | 0.461            | 11.71 | 1283, 1232 | Z2, 0 - 9      |
| <b>782133</b>  | 2         | 34.45           | 133/23    | 133 x 0.57  | 0.063                | 1.60 | 0.465            | 11.81 | 1283, 1232 | Z2, 0 - 9      |
| <b>781259</b>  | 1         | 41.96           | 259/25    | 259 x 0.45  | 0.082                | 2.08 | 0.540            | 13.72 | 1284, 1232 | Z2, 0 - 9      |
| <b>781836</b>  | 1         | 42.39           | 836/30    | 836 x 0.25  | 0.082                | 2.08 | 0.547            | 13.89 | 1284, 1232 | Z2, 0 - 9      |
| <b>780001</b>  | 1/0       | 52.98           | 1045/30   | 1045 x 0.25 | 0.082                | 2.08 | 0.592            | 15.04 | 1284, 1232 | Z2, 0 - 9      |

\*Not MTW

**Z1 Insulation Colors:** 1 White • 2 Black • 3 Red • 4 Green • 5 Yellow • 6 Blue • 7 Brown • 8 Orange • 9 Slate • 10 Violet • 28 Green/Yellow • 29 Yellow/Green

**Z2 Insulation Colors:** 0 Black • 1 Brown • 2 Red • 3 Orange • 4 Yellow • 5 Green • 6 Blue • 7 Violet • 8 Slate • 9 White

\*These wires also available in 500 ft (152 m) put-ups.

**UL AWM 1015, 1028, 1230, 1231, 1232, 1283, 1284 VW-1**  
**UL MTW, TW (14 to 8 AWG), THW (6 to 1/0 AWG)**  
**CSA AWM I A/B FT1 and TEW-105**

-40°C to +105°C (AWM, TEW)  
 -40°C to +90°C (MTW)  
 -40°C to +75°C (THW)  
 -40°C to +60°C (TW)

Stranded bare copper conductor

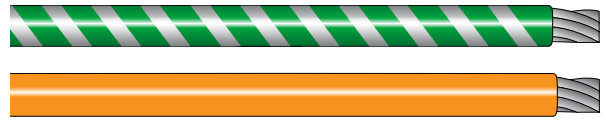
## Availability

100 ft (30.5 m)  
 1000 ft (305 m)

| Part No.      | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |       | UL Style   |
|---------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|-------|------------|
|               | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm    |            |
| <b>461816</b> | 18        | 0.81            | 16/30     | 16 x 0.25 | 0.032                | 0.81 | 0.111            | 2.82  | 1015, 1230 |
| <b>461626</b> | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.032                | 0.81 | 0.124            | 3.15  | 1015, 1230 |
| <b>461419</b> | 14        | 2.07            | 19/0.0147 | 19 x 0.37 | 0.032                | 0.81 | 0.138            | 3.51  | 1015, 1230 |
| <b>461219</b> | 12        | 3.29            | 19/0.0185 | 19 x 0.47 | 0.032                | 0.81 | 0.157            | 3.99  | 1015, 1230 |
| <b>461265</b> | 12        | 3.29            | 65/0.010  | 65 x 0.25 | 0.031                | 0.79 | 0.153            | 3.89  | 1015, 1230 |
| <b>461019</b> | 10        | 5.26            | 19/0.0234 | 19 x 0.59 | 0.032                | 0.81 | 0.181            | 4.60  | 1015, 1230 |
| <b>460819</b> | 8         | 8.38            | 19/0.0295 | 19 x 0.75 | 0.047                | 1.19 | 0.242            | 6.15  | 1028, 1231 |
| <b>460619</b> | 6         | 13.32           | 19/0.0372 | 19 x 0.94 | 0.063                | 1.59 | 0.311            | 7.90  | 1283, 1232 |
| <b>460419</b> | 4         | 21.09           | 19/0.0469 | 19 x 1.19 | 0.063                | 1.59 | 0.360            | 9.14  | 1283, 1232 |
| <b>460219</b> | 2         | 33.63           | 19/0.0591 | 19 x 1.50 | 0.063                | 1.59 | 0.421            | 10.69 | 1283, 1232 |

**Insulation Colors:** White • Black • Red • Green • Yellow • Blue • Brown • Orange • Slate • Violet

## 600 V, PVC Wire



### MIL-DTL-16878/1 (Type B) MIL-W-76 Type LW

-55°C to +105°C

Stranded or solid tinned  
copper conductor

PVC insulation

#### Availability

100 ft (30.5 m)

1000 ft (305 m)

| Part No. | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      | Colors     |
|----------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|------------|
|          | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |            |
| 1850     | 32        | 0.03            | 7/40      | 7 x 0.08  | 0.010                | 0.25 | 0.029            | 0.74 | Z1, 1 - 6  |
| 1851*    | 30        | 0.06            | 7/38      | 7 x 0.10  | 0.010                | 0.25 | 0.032            | 0.81 | Z1, 1 - 6  |
| 1852*    | 28        | 0.09            | 7/36      | 7 x 0.12  | 0.010                | 0.25 | 0.035            | 0.89 | Z1, 1 - 10 |
| 1853*    | 26        | 0.14            | 7/34      | 7 x 0.16  | 0.010                | 0.25 | 0.039            | 0.99 | Z1, 1 - 19 |
| 172619   | 26        | 0.15            | 19/38     | 19 x 0.10 | 0.010                | 0.25 | 0.040            | 1.02 | Z2, 0 - 9  |
| 1854*    | 24        | 0.23            | 7/32      | 7 x 0.20  | 0.010                | 0.25 | 0.044            | 1.12 | Z1, 1 - 19 |
| 1854/19  | 24        | 0.24            | 19/36     | 19 x 0.13 | 0.010                | 0.25 | 0.045            | 1.14 | Z1, 1 - 19 |
| 1855     | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.010                | 0.25 | 0.050            | 1.27 | Z1, 1 - 19 |
| 1855/19  | 22        | 0.38            | 19/34     | 19 x 0.16 | 0.010                | 0.25 | 0.052            | 1.32 | Z1, 1 - 19 |
| 1856*    | 20        | 0.56            | 7/28      | 7 x 0.32  | 0.010                | 0.25 | 0.058            | 1.47 | Z1, 1 - 19 |
| 1856/19  | 20        | 0.62            | 19/32     | 19 x 0.20 | 0.010                | 0.25 | 0.060            | 1.52 | Z1, 1 - 19 |
| 1857     | 18        | 0.90            | 7/26      | 7 x 0.40  | 0.010                | 0.25 | 0.068            | 1.73 | Z1, 1 - 19 |
| 1857/19  | 18        | 0.96            | 19/30     | 19 x 0.25 | 0.010                | 0.25 | 0.070            | 1.78 | Z1, 1 - 19 |
| 1858/19  | 16        | 1.23            | 19/29     | 19 x 0.29 | 0.010                | 0.25 | 0.076            | 1.93 | Z1, 1 - 19 |
| 1859/19  | 14        | 1.94            | 19/27     | 19 x 0.36 | 0.010                | 0.25 | 0.091            | 2.31 | Z1, 1 - 10 |

**Z1 Insulation Colors:** 1 White • 2 Black • 3 Red • 4 Green • 5 Yellow • 6 Blue • 7 Brown • 8 Orange • 9 Slate • 10 Violet • 11 White/Black • 12 White/Red • 13 White/Green • 14 White/Yellow • 15 White/Blue • 16 White/Brown • 17 White/Orange • 18 White/Slate • 19 White/Violet

**Z2 Insulation Colors:** 0 Black • 1 Brown • 2 Red • 3 Orange • 4 Yellow • 5 Green • 6 Blue • 7 Violet • 8 Slate • 9 White

### MIL-W-76 Type HW

-20°C to +80°C

Stranded tinned copper  
conductor

#### Availability

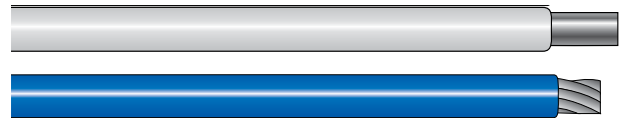
100 ft (30.5 m)

1000 ft (305 m)

| Part No. | Wire Size |                 | Stranding |            | Insulation Thickness |      | Nominal Diameter |      |
|----------|-----------|-----------------|-----------|------------|----------------------|------|------------------|------|
|          | AWG       | mm <sup>2</sup> | AWG       | mm         | Inch                 | mm   | Inch             | mm   |
| 1579     | 14        | 2.08            | 41/30     | 41 x 0.25  | 0.045                | 1.14 | 0.164            | 4.17 |
| 1651     | 12        | 3.29            | 65/30     | 65 x 0.25  | 0.045                | 1.14 | 0.183            | 4.65 |
| 1653     | 10        | 5.32            | 105/30    | 105 x 0.25 | 0.045                | 1.14 | 0.210            | 5.33 |
| 1655     | 8         | 8.61            | 133/29    | 133 x 0.28 | 0.045                | 1.14 | 0.259            | 6.58 |

**Insulation Colors:** White • Black • Red

## 600 V, PVC/Nylon Wire



### UL THHN, THWN, TFN, TFFN

-40°C to +90°C

(THHN, TFN, TFFN)

-40°C to +75°C (THWN)

Stranded or solid bare  
copper conductor

PVC/nylon insulation

#### Availability

100 ft (30.5 m)

500 ft (152 m)

1000 ft (305 m)

| Part No. | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      | UL Type    |
|----------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|------------|
|          | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |            |
| 541816   | 18        | 0.81            | 16/30     | 16 x 0.25 | 0.016                | 0.41 | 0.089            | 2.26 | TFFN       |
| 541801   | 18        | 0.82            | Solid     | 1 x 1.02  | 0.016                | 0.41 | 0.082            | 2.08 | TFN        |
| 541626   | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.016                | 0.41 | 0.102            | 2.59 | TFFN       |
| 541419   | 14        | 2.07            | 19/0.0147 | 19 x 0.37 | 0.016                | 0.41 | 0.116            | 2.95 | THHN, THWN |
| 541401   | 14        | 2.08            | Solid     | 1 x 1.63  | 0.016                | 0.41 | 0.106            | 2.69 | THHN, THWN |
| 541219   | 12        | 3.29            | 19/0.0185 | 19 x 0.47 | 0.016                | 0.41 | 0.135            | 3.43 | THHN, THWN |
| 541201   | 12        | 3.31            | Solid     | 1 x 2.06  | 0.016                | 0.41 | 0.123            | 3.12 | THHN, THWN |
| 541019   | 10        | 5.26            | 19/0.0234 | 19 x 0.59 | 0.022                | 0.56 | 0.166            | 4.22 | THHN, THWN |
| 541001   | 10        | 5.26            | Solid     | 1 x 2.59  | 0.022                | 0.56 | 0.156            | 3.96 | THHN, THWN |
| 540819   | 8         | 8.38            | 19/0.0295 | 19 x 0.75 | 0.032                | 0.81 | 0.224            | 5.69 | THHN, THWN |
| 540619   | 6         | 13.32           | 19/0.0372 | 19 x 0.94 | 0.032                | 0.81 | 0.262            | 6.65 | THHN, THWN |
| 540419   | 4         | 21.09           | 19/0.0469 | 19 x 1.19 | 0.042                | 1.07 | 0.333            | 8.46 | THHN, THWN |
| 540219   | 2         | 33.63           | 19/0.0591 | 19 x 1.50 | 0.042                | 1.07 | 0.383            | 9.73 | THHN, THWN |

**Insulation Colors:** White • Black • Red • Green • Yellow • Blue • Brown • Orange • Slate • Violet

# 1000 V, PVC Wire



## MIL-W-76 Type MWP

-55°C to +90°C

Stranded or solid tinned copper conductor

PVC insulation

### Availability

1000 ft (305 m)

| Part No.      | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      |
|---------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|
|               | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |
| <b>302407</b> | 24        | 0.23            | 7/32      | 7 x 0.20  | 0.016                | 0.41 | 0.056            | 1.42 |
| <b>302207</b> | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.016                | 0.41 | 0.064            | 1.63 |
| <b>302010</b> | 20        | 0.51            | 10/30     | 10 x 0.25 | 0.016                | 0.41 | 0.069            | 1.75 |
| <b>301816</b> | 18        | 0.81            | 16/30     | 16 x 0.25 | 0.016                | 0.41 | 0.079            | 2.01 |
| <b>301626</b> | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.016                | 0.41 | 0.092            | 2.34 |
| <b>301619</b> | 16        | 1.23            | 19/29     | 19 x 0.29 | 0.016                | 0.41 | 0.088            | 2.24 |
| <b>301441</b> | 14        | 2.08            | 41/30     | 41 x 0.25 | 0.016                | 0.41 | 0.106            | 2.69 |

**Insulation Colors:** White • Black • Red • Green • Yellow • Blue • Brown • Orange • Slate • Violet

## MIL-W-76 B Type MW

-40°C to +80°C

Stranded or solid tinned copper conductor

PVC insulation

### Availability

100 ft (30.5 m)

1000 ft (305 m)

| Part No.       | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      | Colors* |
|----------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|---------|
|                | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |         |
| <b>1550</b>    | 24        | 0.23            | 7/32      | 7 x 0.20  | 0.016                | 0.41 | 0.056            | 1.42 | 1 - 19  |
| <b>1561/24</b> | 24        | 0.20            | Solid     | 1 x 0.51  | 0.016                | 0.41 | 0.052            | 1.32 | 1 - 6   |
| <b>1551</b>    | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.016                | 0.41 | 0.062            | 1.57 | 1 - 19  |
| <b>1561</b>    | 22        | 0.32            | Solid     | 1 x 0.64  | 0.016                | 0.41 | 0.057            | 1.45 | 1 - 6   |
| <b>1553</b>    | 20        | 0.51            | 10/30     | 10 x 0.25 | 0.016                | 0.41 | 0.069            | 1.75 | 1 - 19  |
| <b>1563</b>    | 20        | 0.52            | Solid     | 1 x 0.81  | 0.016                | 0.41 | 0.064            | 1.63 | 1 - 6   |
| <b>1555</b>    | 18        | 0.81            | 16/30     | 16 x 0.25 | 0.016                | 0.41 | 0.079            | 2.01 | 1 - 19  |
| <b>1565</b>    | 18        | 0.82            | Solid     | 1 x 1.02  | 0.016                | 0.41 | 0.072            | 1.83 | 1 - 6   |
| <b>1557</b>    | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.016                | 0.41 | 0.092            | 2.34 | 1 - 19  |
| <b>1559</b>    | 14        | 2.08            | 41/30     | 41 x 0.25 | 0.016                | 0.41 | 0.106            | 2.69 | 1 - 10  |
| <b>1560</b>    | 12        | 3.29            | 65/30     | 65 x 0.25 | 0.016                | 0.41 | 0.125            | 3.18 | 1 - 10  |

**Insulation Colors:** 1 White • 2 Black • 3 Red • 4 Green • 5 Yellow • 6 Blue • 7 Brown • 8 Orange • 9 Slate • 10 Violet • 11 White/Black • 12 White/Red • 13 White/Green • 14 White/Yellow • 15 White/Blue • 16 White/Brown • 17 White/Orange • 18 White/Slate • 19 White/Violet

# 600/150 V, Irradiated PVC Wire



Soldering Iron Resistant

## MIL-DTL-16878/1 (Type B) (600 V)

**UL AWM 1429 (150 V)**

**CSA AWM I A/B FT1 (150 V)**

-55°C to +105°C (MIL)

-55°C to +80°C (AWM, CSA)

Stranded tinned copper conductor

Irradiated PVC insulation

### Availability

100 ft (30.5 m)

1000 ft (305 m)

| Part No.       | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      |
|----------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|
|                | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |
| <b>7053</b>    | 26        | 0.14            | 7/34      | 7 x 0.16  | 0.010                | 0.25 | 0.039            | 0.99 |
| <b>7054</b>    | 24        | 0.23            | 7/32      | 7 x 0.20  | 0.010                | 0.25 | 0.044            | 1.12 |
| <b>7054/19</b> | 24        | 0.24            | 19/36     | 19 x 0.13 | 0.010                | 0.25 | 0.045            | 1.14 |
| <b>7055</b>    | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.010                | 0.25 | 0.050            | 1.27 |
| <b>7055/19</b> | 22        | 0.38            | 19/34     | 19 x 0.16 | 0.010                | 0.25 | 0.052            | 1.32 |
| <b>7056</b>    | 20        | 0.56            | 7/28      | 7 x 0.32  | 0.010                | 0.25 | 0.058            | 1.47 |
| <b>7056/19</b> | 20        | 0.62            | 19/32     | 19 x 0.20 | 0.010                | 0.25 | 0.060            | 1.52 |
| <b>7057</b>    | 18        | 0.90            | 7/26      | 7 x 0.40  | 0.010                | 0.25 | 0.068            | 1.73 |
| <b>7057/19</b> | 18        | 0.96            | 19/30     | 19 x 0.25 | 0.010                | 0.25 | 0.070            | 1.78 |
| <b>7058/19</b> | 16        | 1.32            | 19/0.0117 | 19 x 0.30 | 0.010                | 0.25 | 0.076            | 1.93 |

**Insulation Colors:** White • Black • Red • Green • Yellow • Blue • Brown • Orange • Slate • Violet

# 1000/300 V, Irradiated PVC Wire

Soldering Iron Resistant



**MIL-DTL-16878/2 (Type C)**  
**(1000 V)**  
**UL AWM 1430 (300 V)**  
**CSA REW XLPVC FT1 (300 V)**

-55°C to +105°C

Stranded tinned copper  
conductor

Irradiated PVC insulation

## Availability

100 ft (30.5 m)

1000 ft (305 m)

| Part No.     | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      | Colors     |
|--------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|------------|
|              | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |            |
| <b>7130</b>  | 24        | 0.23            | 7/32      | 7 x 0.20  | 0.016                | 0.41 | 0.056            | 1.42 | 1 - 10, 29 |
| <b>7131</b>  | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.016                | 0.41 | 0.062            | 1.57 | 1 - 10     |
| <b>7132</b>  | 20        | 0.56            | 7/28      | 7 x 0.32  | 0.016                | 0.41 | 0.070            | 1.78 | 1 - 10     |
| <b>7133</b>  | 18        | 0.89            | 7/26      | 7 x 0.40  | 0.016                | 0.41 | 0.080            | 2.03 | 1 - 10, 29 |
| <b>7134</b>  | 16        | 1.32            | 19/0.0117 | 19 x 0.30 | 0.016                | 0.41 | 0.088            | 2.24 | 1 - 10, 29 |
| <b>7035*</b> | 14        | 2.07            | 19/0.0147 | 19 x 0.37 | 0.016                | 0.41 | 0.103            | 2.62 | 1 - 10, 29 |
| <b>7036*</b> | 12        | 3.29            | 19/0.0185 | 19 x 0.47 | 0.016                | 0.41 | 0.122            | 3.10 | 1 - 10, 29 |

**Insulation Colors:** 1 White • 2 Black • 3 Red • 4 Green • 5 Yellow • 6 Blue • 7 Brown • 8 Orange • 9 Slate • 10 Violet • 29 Yellow/Green

# 3000/600 V, XLPE Wire



**MIL-DTL-16878/3 (Type D)**  
**(3000 V)**  
**UL AWM 3271 (600 V) VW-1**  
**CSA CL 1251 XLPE (600 V)**

-55°C to +105°C (MIL)

-55°C to +125°C (UL, CSA)

Stranded tinned copper  
conductor

Cross-linked polyolefin  
insulation

## Availability

100 ft (30.5 m)

1000 ft (305 m)

| Part No.    | Wire Size |                 | Stranding |            | Insulation Thickness |      | Nominal Diameter |      |
|-------------|-----------|-----------------|-----------|------------|----------------------|------|------------------|------|
|             | AWG       | mm <sup>2</sup> | AWG       | mm         | Inch                 | mm   | Inch             | mm   |
| <b>7044</b> | 18        | 0.81            | 16/30     | 16 x 0.25  | 0.032                | 0.81 | 0.111            | 2.82 |
| <b>7045</b> | 16        | 1.32            | 26/30     | 26 x 0.25  | 0.032                | 0.81 | 0.119            | 3.02 |
| <b>7046</b> | 14        | 2.08            | 41/30     | 41 x 0.25  | 0.032                | 0.81 | 0.138            | 3.51 |
| <b>7047</b> | 12        | 3.29            | 65/30     | 65 x 0.25  | 0.032                | 0.81 | 0.155            | 3.94 |
| <b>7048</b> | 10        | 5.32            | 105/30    | 105 x 0.25 | 0.032                | 0.81 | 0.184            | 4.67 |

**Insulation Colors:** White • Black • Red

# 1000/300 V, XLPE



**MIL-DTL-16878/2 (Type C)  
(1000 V)  
UL AWM 3266 (300 V) VW-1  
CSA CL 1252 XLPE (300 V)**

-55°C to +105°C (MIL)  
-55°C to +125°C (UL, CSA)

Stranded tinned copper  
conductor

Cross-linked polyolefin  
insulation

## Availability

100 ft (30.5 m)  
1000 ft (305 m)

| Part No.    | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      |
|-------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|
|             | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |
| <b>7024</b> | 22        | 0.38            | 19/34     | 19 x 0.16 | 0.016                | 0.41 | 0.064            | 1.63 |
| <b>7025</b> | 20        | 0.62            | 19/32     | 19 x 0.20 | 0.016                | 0.41 | 0.072            | 1.83 |
| <b>7026</b> | 18        | 0.96            | 19/30     | 19 x 0.25 | 0.016                | 0.41 | 0.080            | 2.03 |

**Insulation Colors:** White • Black • Red

# 600/150 V, XLPE

**MIL-DTL-16878/1 (Type B)  
(600 V)  
UL AWM 3265 (150 V) VW-1  
CSA AWM I A/B FT1 (150 V)**

-55°C to +105°C (MIL)  
-55°C to +125°C (UL, CSA)

Stranded tinned copper  
conductor

Cross-linked polyolefin  
insulation

## Availability

1000 ft (305 m)

| Part No.    | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      |
|-------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|
|             | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |
| <b>7012</b> | 22        | 0.38            | 19/34     | 19 x 0.16 | 0.011                | 0.28 | 0.054            | 1.37 |
| <b>7013</b> | 20        | 0.62            | 19/32     | 19 x 0.20 | 0.011                | 0.28 | 0.06             | 1.52 |
| <b>7014</b> | 18        | 0.96            | 19/30     | 19 x 0.25 | 0.011                | 0.28 | 0.070            | 1.78 |

**Insulation Colors:** White • Black

# 600 V, XLPE Wire



**UL AWM 3173  
UL SIS  
CSA AWM I A/B FT2  
CSA CL1251 XLPE**

-40°C to +125°C (AWM)  
-40°C to +150°C (CSA CL)  
-40°C to +90°C (SIS)

Stranded tinned copper  
conductor

Cross-linked polyethylene  
insulation

## Availability

1000 ft (305 m)

| Part No.        | Wire Size |                 | Stranding |            | Insulation Thickness |      | Nominal Diameter |      |
|-----------------|-----------|-----------------|-----------|------------|----------------------|------|------------------|------|
|                 | AWG       | mm <sup>2</sup> | AWG       | mm         | Inch                 | mm   | Inch             | mm   |
| <b>752010</b>   | 20        | 0.51            | 10/30     | 10 x 0.25  | 0.031                | 0.79 | 0.099            | 2.51 |
| <b>751816</b>   | 18        | 0.81            | 16/30     | 16 x 0.25  | 0.031                | 0.79 | 0.109            | 2.77 |
| <b>751626</b>   | 16        | 1.32            | 26/30     | 26 x 0.25  | 0.031                | 0.79 | 0.122            | 3.10 |
| <b>751441*</b>  | 14        | 2.08            | 41/30     | 41 x 0.25  | 0.031                | 0.79 | 0.136            | 3.45 |
| <b>751265*</b>  | 12        | 3.29            | 65/30     | 65 x 0.25  | 0.031                | 0.79 | 0.155            | 3.94 |
| <b>751000*</b>  | 10        | 5.32            | 105/30    | 105 x 0.25 | 0.031                | 0.79 | 0.180            | 4.57 |
| <b>758133**</b> | 8         | 8.63            | 133/29    | 133 x 0.29 | 0.047                | 1.19 | 0.263            | 6.68 |

**Insulation Colors:** White • Black • Red • Green • Yellow • Blue • Brown • Orange • Slate • Violet

# 250 V, PTFE Wire



**MIL-DTL-16878/6 (Type ET)**  
**UL VW-1**  
**NEMA HP3**

-60°C to +200°C

Stranded or solid silver-plated copper conductor

PTFE insulation

## Availability

100 ft (30.5 m)

1000 ft (305 m)\*

\*May contain multiple lengths

| Part No.        | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      | NEMA HP3 Type | Colors |
|-----------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|---------------|--------|
|                 | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |               |        |
| <b>33201</b>    | 32        | 0.03            | Solid     | 1 x 0.20  | 0.006                | 0.15 | 0.019            | 0.48 | —             | Z2     |
| <b>2840/7*</b>  | 32        | 0.03            | 7/40      | 7 x 0.08  | 0.006                | 0.15 | 0.022            | 0.56 | ETXBAB        | Z1     |
| <b>2841/7*</b>  | 30        | 0.06            | 7/38      | 7 x 0.10  | 0.006                | 0.15 | 0.024            | 0.61 | ETXBBB        | Z1     |
| <b>2841/1*</b>  | 30        | 0.05            | Solid     | 1 x 0.25  | 0.006                | 0.15 | 0.022            | 0.56 | ETXBBA        | Z1     |
| <b>2842/7*</b>  | 28        | 0.09            | 7/36      | 7 x 0.12  | 0.006                | 0.15 | 0.027            | 0.69 | ETXBCB        | Z1     |
| <b>2842/19*</b> | 28        | 0.09            | 19/40     | 19 x 0.08 | 0.006                | 0.15 | 0.027            | 0.69 | ETXBCE        | Z1     |
| <b>2842/1*</b>  | 28        | 0.08            | Solid     | 1 x 0.32  | 0.006                | 0.15 | 0.025            | 0.64 | ETXBCE        | Z1     |
| <b>2843/7*</b>  | 26        | 0.14            | 7/34      | 7 x 0.16  | 0.006                | 0.15 | 0.031            | 0.79 | ETXBDB        | Z1     |
| <b>2843/19*</b> | 26        | 0.15            | 19/38     | 19 x 0.10 | 0.006                | 0.15 | 0.031            | 0.79 | ETXBDE        | Z1     |
| <b>2843/1*</b>  | 26        | 0.13            | Solid     | 1 x 0.40  | 0.006                | 0.15 | 0.028            | 0.71 | ETXBDA        | Z1     |
| <b>2844/7*</b>  | 24        | 0.23            | 7/32      | 7 x 0.20  | 0.006                | 0.15 | 0.036            | 0.91 | ETXBEB        | Z1     |
| <b>2844/19*</b> | 24        | 0.24            | 19/36     | 19 x 0.13 | 0.006                | 0.15 | 0.036            | 0.91 | ETXBEE        | Z1     |
| <b>2845/7</b>   | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.006                | 0.15 | 0.042            | 1.07 | ETXBFB        | Z1     |
| <b>2845/19</b>  | 22        | 0.38            | 19/34     | 19 x 0.16 | 0.005                | 0.13 | 0.042            | 1.07 | ETXBFE        | Z1     |

\*Not VW-1

**Z1 Insulation Colors:** 1 White • 2 Black • 3 Red • 4 Green • 5 Yellow • 6 Blue • 7 Brown • 8 Orange • 9 Slate • 10 Violet

**Z2 Insulation Colors:** 0 Black • 1 Brown • 2 Red • 3 Orange • 4 Yellow • 5 Green • 6 Blue • 7 Violet • 8 Slate • 9 White

\*These wires also available in 500 ft (152 m) put-ups.

# 600 V, PTFE Wire

**MIL-DTL-16878/4 (Type E)**  
**(600 V)**  
**UL AWM 1213\***  
**NEMA HP3**

-60°C to +200°C (MIL)

-60°C to +105°C (UL)

Stranded or solid silver-plated copper conductor

PTFE insulation

## Availability

100 ft (30.5 m)

1000 ft (305 m)\*

\*May contain multiple lengths

| Part No.         | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      | NEMA HP3 Type |
|------------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|---------------|
|                  | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |               |
| <b>5851</b>      | 30        | 0.06            | 7/38      | 7 x 0.10  | 0.010                | 0.25 | 0.032            | 0.81 | EXBBB         |
| <b>5852</b>      | 28        | 0.09            | 7/36      | 7 x 0.13  | 0.010                | 0.25 | 0.035            | 0.89 | EXBCB         |
| <b>5853</b>      | 26        | 0.14            | 7/34      | 7 x 0.16  | 0.010                | 0.25 | 0.039            | 0.99 | EXBDB         |
| <b>5853/19</b>   | 26        | 0.15            | 19/38     | 19 x 0.10 | 0.010                | 0.25 | 0.039            | 0.99 | EXBDE         |
| <b>2853/1</b>    | 26        | 0.13            | Solid     | 1 x 0.40  | 0.010                | 0.25 | 0.036            | 0.91 | EXBDA         |
| <b>5854</b>      | 24        | 0.24            | 19/36     | 19 x 0.13 | 0.010                | 0.25 | 0.044            | 1.12 | EXBEE         |
| <b>5854/7</b>    | 24        | 0.23            | 7/32      | 7 x 0.20  | 0.010                | 0.25 | 0.044            | 1.12 | EXBEB         |
| <b>2854/1</b>    | 24        | 0.20            | Solid     | 1 x 0.51  | 0.010                | 0.25 | 0.040            | 1.02 | EXBEA         |
| <b>5855</b>      | 22        | 0.38            | 19/34     | 19 x 0.16 | 0.010                | 0.25 | 0.050            | 1.27 | EXBFE         |
| <b>5855/7</b>    | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.010                | 0.25 | 0.050            | 1.27 | EXBFB         |
| <b>2855/1</b>    | 22        | 0.32            | Solid     | 1 x 0.64  | 0.010                | 0.25 | 0.045            | 1.14 | EXBFA         |
| <b>5856</b>      | 20        | 0.62            | 19/32     | 19 x 0.20 | 0.010                | 0.25 | 0.058            | 1.47 | EXBGE         |
| <b>5856/7</b>    | 20        | 0.56            | 7/28      | 7 x 0.32  | 0.010                | 0.25 | 0.058            | 1.47 | EXBGB         |
| <b>2856/1***</b> | 20        | 0.52            | Solid     | 1 x 0.81  | 0.010                | 0.25 | 0.052            | 1.32 | EXBGA         |
| <b>5857</b>      | 18        | 0.96            | 19/30     | 19 x 0.25 | 0.010                | 0.25 | 0.069            | 1.75 | EXBHE         |
| <b>2857/1***</b> | 18        | 0.82            | Solid     | 1 x 1.02  | 0.011                | 0.27 | 0.061            | 1.55 | EXBHA         |
| <b>5858</b>      | 16        | 1.23            | 19/29     | 19 x 0.29 | 0.012                | 0.30 | 0.080            | 2.03 | EXBJE         |
| <b>5859†</b>     | 14        | 1.94            | 19/27     | 19 x 0.36 | 0.012                | 0.30 | 0.095            | 2.41 | EXBKE         |
| <b>5859/12†</b>  | 12        | 3.08            | 19/25     | 19 x 0.45 | 0.012                | 0.30 | 0.114            | 2.90 | EXBLE         |
| <b>5859/10†</b>  | 10        | 4.74            | 37/26     | 37 x 0.40 | 0.012                | 0.30 | 0.134            | 3.40 | EXBMG         |

\*Voltage rating not specified.

\*\*\*White, black, red only.

†Colors 1-5 only, not UL AWM 1213.

**Insulation Colors:** White • Black • Red • Green • Yellow • Blue • Brown • Orange • Slate • Violet

# 1000/300 V, PTFE Wire



**MIL-DTL-16878/5 (TYPE EE)  
(1000V)  
UL AWM 1180 (300V)  
NEMA HP3**

-60°C to +200°C

Stranded or solid silver-plated  
copper conductor

PTFE insulation

## Availability

100 ft (30.5 m)

1000 ft (305 m)\*

\*May contain multiple lengths

| Part No.       | Wire Size |                 | Stranding |            | Insulation Thickness |      | Nominal Diameter |      | NEMA HP3 Type |
|----------------|-----------|-----------------|-----------|------------|----------------------|------|------------------|------|---------------|
|                | AWG       | mm <sup>2</sup> | AWG       | mm         | Inch                 | mm   | Inch             | mm   |               |
| <b>5874</b>    | 24        | 0.24            | 19/36     | 19 x 0.13  | 0.015                | 0.37 | 0.054            | 1.37 | EEXBEE        |
| <b>5875</b>    | 22        | 0.38            | 19/34     | 19 x 0.16  | 0.014                | 0.36 | 0.060            | 1.52 | EEXBFE        |
| <b>5876</b>    | 20        | 0.62            | 19/32     | 19 x 0.20  | 0.014                | 0.36 | 0.068            | 1.73 | EEXBGE        |
| <b>5877</b>    | 18        | 0.96            | 19/30     | 19 x 0.25  | 0.015                | 0.37 | 0.079            | 2.01 | EEXBHE        |
| <b>5878</b>    | 16        | 1.23            | 19/29     | 19 x 0.29  | 0.016                | 0.41 | 0.089            | 2.26 | EEXBJE        |
| <b>5879</b>    | 14        | 1.94            | 19/27     | 19 x 0.36  | 0.017                | 0.43 | 0.106            | 2.69 | EEXBKE        |
| <b>5879/10</b> | 10        | 4.74            | 37/26     | 37 x 0.40  | 0.017                | 0.43 | 0.145            | 3.68 | EEXBMG        |
| <b>5879/12</b> | 12        | 3.08            | 19/25     | 19 x 0.45  | 0.017                | 0.43 | 0.125            | 3.18 | EEXBLE        |
| <b>5879/8*</b> | 8         | 8.61            | 133/29    | 133 x 0.29 | 0.020                | 0.51 | 0.209            | 5.31 | EEXBNL        |

\*Not UL AWM 1180.

**Insulation Colors:** White • Black • Red • Green • Yellow • Blue • Brown • Orange • Slate • Violet

Parts 5878, 5879, 5879/8, 5879/10, 5879/12: white only.

# 600 V, ETFE or PTFE Wire



**SAE AS22759/11  
(MIL-DTL-22759/11)  
SAE AS22759/16  
(MIL-DTL-22759/16)**

-55°C to +200°C (PTFE)

-55°C to +150°C (ETFE)

Stranded silver-plated copper  
conductors (SAE AS22759/11)

Stranded tinned copper  
conductor (SAE AS22759/16)

ETFE or PTFE insulation

## Availability

100 ft (30.5 m)

1000 ft (305 m)\*

\*May contain multiple lengths

**PTFE, SAE AS22759/11, -55°C to +200°C, Silver-Plated Copper Conductors**

| Part No.        | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      |
|-----------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|
|                 | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |
| <b>AT261938</b> | 26        | 0.15            | 19/38     | 19 x 0.10 | 0.010                | 0.25 | 0.038            | 0.97 |
| <b>AT241936</b> | 24        | 0.24            | 19/36     | 19 x 0.13 | 0.009                | 0.23 | 0.043            | 1.09 |
| <b>AT221934</b> | 22        | 0.38            | 19/34     | 19 x 0.16 | 0.009                | 0.23 | 0.049            | 1.24 |
| <b>AT201932</b> | 20        | 0.62            | 19/32     | 19 x 0.20 | 0.011                | 0.28 | 0.058            | 1.47 |
| <b>AT181930</b> | 18        | 0.96            | 19/30     | 19 x 0.25 | 0.010                | 0.25 | 0.068            | 1.73 |
| <b>AT161929</b> | 16        | 1.23            | 19/29     | 19 x 0.29 | 0.010                | 0.25 | 0.075            | 1.90 |
| <b>AT141927</b> | 14        | 1.94            | 19/27     | 19 x 0.36 | 0.011                | 0.27 | 0.090            | 2.29 |
| <b>AT121925</b> | 12        | 3.08            | 19/25     | 19 x 0.45 | 0.013                | 0.32 | 0.111            | 2.82 |

**ETFE, SAE AS22759/16, -55°C to +150°C, Tinned Copper Conductors**

| Part No.        | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      |
|-----------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|
|                 | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |
| <b>AZ241936</b> | 24        | 0.24            | 19/36     | 19 x 0.13 | 0.011                | 0.27 | 0.045            | 1.14 |
| <b>AZ221934</b> | 22        | 0.38            | 19/34     | 19 x 0.16 | 0.011                | 0.28 | 0.052            | 1.32 |
| <b>AZ201932</b> | 20        | 0.62            | 19/32     | 19 x 0.20 | 0.011                | 0.28 | 0.060            | 1.52 |
| <b>AZ181930</b> | 18        | 0.96            | 19/30     | 19 x 0.25 | 0.012                | 0.29 | 0.071            | 1.80 |
| <b>AZ161929</b> | 16        | 1.23            | 19/29     | 19 x 0.29 | 0.013                | 0.33 | 0.079            | 2.01 |
| <b>AZ141927</b> | 14        | 1.94            | 19/27     | 19 x 0.36 | 0.013                | 0.33 | 0.093            | 2.36 |
| <b>AZ123728</b> | 12        | 2.97            | 37/28     | 37 x 0.32 | 0.014                | 0.34 | 0.114            | 2.90 |

**Insulation Colors:** White • Black • Red • Green • Yellow • Blue • Brown • Orange • Slate • Violet

# Wire Wrap, PVDF or ETFE Wire



## UL 1422, 1423, 1516, 1523 VW-1

-40°C to +125°C (PVDF)  
-70°C to +150°C (ETFE)  
+105°C (UL)

Silver-plated solid  
copper conductors

PVDF or ETFE insulation

### Availability

100 ft (30.5 m) (ETFE)  
1000 ft (305 m) (PVDF or ETFE)

### PVDF Insulation

| Part No.    | Wire Size |                 | Insulation Thickness |      | Nominal Diameter |      | UL Style |
|-------------|-----------|-----------------|----------------------|------|------------------|------|----------|
|             | AWG       | mm <sup>2</sup> | Inch                 | mm   | Inch             | mm   |          |
| <b>5951</b> | 30        | 0.05            | 0.005                | 0.11 | 0.019            | 0.51 | 1423     |
| <b>5952</b> | 28        | 0.08            | 0.006                | 0.14 | 0.024            | 0.61 | 1422     |
| <b>5953</b> | 26        | 0.13            | 0.006                | 0.14 | 0.027            | 0.69 | 1422     |
| <b>5954</b> | 24        | 0.20            | 0.005                | 0.11 | 0.030            | 0.76 | 1423     |

### ETFE Insulation

| Part No.    | Wire Size |                 | Insulation Thickness |      | Nominal Diameter |      | UL Style |
|-------------|-----------|-----------------|----------------------|------|------------------|------|----------|
|             | AWG       | mm <sup>2</sup> | Inch                 | mm   | Inch             | mm   |          |
| <b>1805</b> | 30        | 0.05            | 0.005                | 0.11 | 0.020            | 0.51 | 1516     |
| <b>1806</b> | 28        | 0.08            | 0.006                | 0.14 | 0.024            | 0.61 | 1523     |
| <b>1807</b> | 26        | 0.13            | 0.006                | 0.14 | 0.027            | 0.69 | 1523     |
| <b>1808</b> | 24        | 0.20            | 0.005                | 0.11 | 0.030            | 0.76 | 1516     |

**Insulation Colors:** White • Black • Red • Green • Yellow • Blue • Brown • Orange • Slate • Violet

# Test Lead, EPR Rubber Wire



-30°C to +90°C

See table for voltage rating

Stranded tinned  
copper conductors

EPR rubber insulation

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)

| Part No.    | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      | Breakdown Voltage (RMS) | Working Voltage (RMS) |
|-------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|-------------------------|-----------------------|
|             | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |                         |                       |
| <b>1632</b> | 20        | 0.52            | 41/36     | 41 x 0.13 | 0.040                | 1.02 | 0.118            | 3.00 | 6000                    | 1500                  |
| <b>1635</b> | 20        | 0.52            | 41/36     | 41 x 0.13 | 0.047                | 1.19 | 0.132            | 3.35 | 12,000                  | 3000                  |
| <b>1636</b> | 18        | 0.83            | 65/36     | 65 x 0.13 | 0.045                | 1.14 | 0.137            | 3.48 | 20,000                  | 5000                  |

**Insulation Colors:** Black • Red

# 600 V, Silicone Rubber Wire



## UL AWM 3212, 3213, 3214 CSA AWM I A/B FT2

-40°C to +150°C

Stranded tinned  
copper conductor

Silicone rubber insulation

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)

| Part No.      | Wire Size |                 | Stranding |            | Insulation Thickness |      | Nominal Diameter |       | UL AWM |
|---------------|-----------|-----------------|-----------|------------|----------------------|------|------------------|-------|--------|
|               | AWG       | mm <sup>2</sup> | AWG       | mm         | Inch                 | mm   | Inch             | mm    |        |
| <b>392207</b> | 22        | 0.35            | 7/30      | 7 x 0.25   | 0.047                | 1.19 | 0.124            | 3.15  | 3212   |
| <b>392010</b> | 20        | 0.51            | 10/30     | 10 x 0.25  | 0.047                | 1.19 | 0.131            | 3.33  | 3212   |
| <b>391816</b> | 18        | 0.81            | 16/30     | 16 x 0.25  | 0.047                | 1.19 | 0.141            | 3.58  | 3212   |
| <b>391626</b> | 16        | 1.32            | 26/30     | 26 x 0.25  | 0.047                | 1.19 | 0.154            | 3.91  | 3212   |
| <b>391441</b> | 14        | 2.08            | 41/30     | 41 x 0.25  | 0.047                | 1.19 | 0.168            | 4.27  | 3212   |
| <b>391265</b> | 12        | 3.29            | 65/30     | 65 x 0.25  | 0.047                | 1.19 | 0.187            | 4.75  | 3212   |
| <b>391000</b> | 10        | 5.32            | 105/30    | 105 x 0.25 | 0.047                | 1.19 | 0.212            | 5.38  | 3212   |
| <b>398133</b> | 8         | 8.61            | 133/29    | 133 x 0.29 | 0.063                | 1.60 | 0.295            | 7.49  | 3213   |
| <b>396133</b> | 6         | 13.57           | 133/27    | 133 x 0.36 | 0.063                | 1.60 | 0.339            | 8.61  | 3213   |
| <b>394133</b> | 4         | 21.55           | 133/25    | 133 x 0.45 | 0.063                | 1.60 | 0.395            | 10.03 | 3213   |
| <b>392259</b> | 2         | 33.15           | 259/26    | 259 x 0.40 | 0.063                | 1.60 | 0.460            | 11.68 | 3213   |
| <b>391259</b> | 1         | 41.96           | 259/25    | 259 x 0.45 | 0.078                | 1.98 | 0.532            | 13.51 | 3214   |

**Insulation Colors:** White • Black

# High Voltage, Silicone Rubber Wire



## UL AWM 3239

-40°C to +150°C

Stranded tinned  
copper conductor

Silicone rubber insulation

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)

## UL 3239

| Part No. | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |      | Voltage |
|----------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|------|---------|
|          | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm   |         |
| 392297   | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.097                | 2.46 | 0.224            | 5.69 | 40 kV   |
| 392275   | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.075                | 1.90 | 0.180            | 4.57 | 30 kV   |
| 392262   | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.062                | 1.57 | 0.154            | 3.91 | 25 kV   |
| 392250   | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.050                | 1.27 | 0.131            | 3.33 | 20 kV   |
| 392245   | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.045                | 1.14 | 0.120            | 3.05 | 15 kV   |
| 392240   | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.040                | 1.02 | 0.11             | 2.79 | 10 kV   |
| 392097   | 20        | 0.51            | 10/30     | 10 x 0.25 | 0.097                | 2.46 | 0.231            | 5.87 | 40 kV   |
| 392075   | 20        | 0.51            | 10/30     | 10 x 0.25 | 0.075                | 1.90 | 0.187            | 4.75 | 30 kV   |
| 392062   | 20        | 0.51            | 10/30     | 10 x 0.25 | 0.062                | 1.57 | 0.161            | 4.09 | 25 kV   |
| 392050   | 20        | 0.51            | 10/30     | 10 x 0.25 | 0.050                | 1.27 | 0.137            | 3.48 | 20 kV   |
| 392045   | 20        | 0.51            | 10/30     | 10 x 0.25 | 0.045                | 1.14 | 0.127            | 3.23 | 15 kV   |
| 392040   | 20        | 0.51            | 10/30     | 10 x 0.25 | 0.040                | 1.02 | 0.117            | 2.97 | 10 kV   |
| 391897   | 18        | 0.81            | 16/30     | 16 x 0.25 | 0.097                | 2.46 | 0.241            | 6.12 | 40 kV   |
| 391875   | 18        | 0.81            | 16/30     | 16 x 0.25 | 0.075                | 1.90 | 0.197            | 5.00 | 30 kV   |
| 391862   | 18        | 0.81            | 16/30     | 16 x 0.25 | 0.062                | 1.57 | 0.171            | 4.34 | 25 kV   |
| 391850   | 18        | 0.81            | 16/30     | 16 x 0.25 | 0.050                | 1.27 | 0.147            | 3.73 | 20 kV   |
| 391845   | 18        | 0.81            | 16/30     | 16 x 0.25 | 0.045                | 1.14 | 0.137            | 3.48 | 15 kV   |
| 391840   | 18        | 0.81            | 16/30     | 16 x 0.25 | 0.040                | 1.02 | 0.127            | 3.23 | 10 kV   |
| 391699   | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.150                | 3.81 | 0.360            | 9.14 | 50 kV   |
| 391697   | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.097                | 2.46 | 0.254            | 6.45 | 40 kV   |
| 391675   | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.075                | 1.90 | 0.210            | 5.33 | 30 kV   |
| 391662   | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.062                | 1.57 | 0.184            | 4.67 | 25 kV   |
| 391650   | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.050                | 1.27 | 0.160            | 4.06 | 20 kV   |
| 391645   | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.045                | 1.14 | 0.150            | 3.81 | 15 kV   |
| 391640   | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.040                | 1.02 | 0.140            | 3.56 | 10 kV   |
| 391499   | 14        | 2.08            | 41/30     | 41 x 0.25 | 0.150                | 3.81 | 0.374            | 9.50 | 50 kV   |
| 391497   | 14        | 2.08            | 41/30     | 41 x 0.25 | 0.097                | 2.46 | 0.268            | 6.81 | 40 kV   |
| 391475   | 14        | 2.08            | 41/30     | 41 x 0.25 | 0.075                | 1.90 | 0.224            | 5.69 | 30 kV   |
| 391462   | 14        | 2.08            | 41/30     | 41 x 0.25 | 0.062                | 1.57 | 0.198            | 5.03 | 25 kV   |
| 391450   | 14        | 2.08            | 41/30     | 41 x 0.25 | 0.050                | 1.27 | 0.174            | 4.42 | 20 kV   |
| 391445   | 14        | 2.08            | 41/30     | 41 x 0.25 | 0.045                | 1.14 | 0.164            | 4.17 | 15 kV   |
| 391440   | 14        | 2.08            | 41/30     | 41 x 0.25 | 0.040                | 1.02 | 0.154            | 3.91 | 10 kV   |

Insulation Colors: White • Black • Red

## UL AWM 3239

-40°C to +150°C

Finely stranded tinned  
copper conductor

Silicone rubber insulation

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)

## UL 3239

| Part No. | Wire Size |                 | Stranding |            | Insulation Thickness |      | Nominal Diameter |       | Voltage |
|----------|-----------|-----------------|-----------|------------|----------------------|------|------------------|-------|---------|
|          | AWG       | mm <sup>2</sup> | AWG       | mm         | Inch                 | mm   | Inch             | mm    |         |
| 391297   | 12        | 3.29            | 65/30     | 65 x 0.25  | 0.097                | 2.46 | 0.287            | 7.29  | 40 kV   |
| 391275   | 12        | 3.29            | 65/30     | 65 x 0.25  | 0.075                | 1.90 | 0.243            | 6.17  | 30 kV   |
| 391262   | 12        | 3.29            | 65/30     | 65 x 0.25  | 0.062                | 1.57 | 0.217            | 5.51  | 25 kV   |
| 391250   | 12        | 3.29            | 65/30     | 65 x 0.25  | 0.050                | 1.27 | 0.193            | 4.90  | 20 kV   |
| 391245   | 12        | 3.29            | 65/30     | 65 x 0.25  | 0.045                | 1.14 | 0.183            | 4.65  | 15 kV   |
| 391099   | 10        | 5.32            | 105/30    | 105 x 0.25 | 0.150                | 3.81 | 0.418            | 10.62 | 50 kV   |
| 391097   | 10        | 5.32            | 105/30    | 105 x 0.25 | 0.097                | 2.46 | 0.312            | 7.92  | 40 kV   |
| 391045   | 10        | 5.32            | 105/30    | 105 x 0.25 | 0.045                | 1.14 | 0.208            | 5.28  | 15 kV   |
| 391040   | 10        | 5.32            | 105/30    | 105 x 0.25 | 0.040                | 1.02 | 0.198            | 5.03  | 10 kV   |
| 390897   | 8         | 8.61            | 133/29    | 133 x 0.28 | 0.097                | 2.46 | 0.363            | 9.22  | 40 kV   |
| 390862*  | 8         | 8.61            | 133/29    | 133 x 0.28 | 0.062                | 1.57 | 0.293            | 7.44  | 25 kV   |
| 390845   | 8         | 8.61            | 133/29    | 133 x 0.28 | 0.045                | 1.14 | 0.259            | 6.58  | 15 kV   |
| 390662*  | 6         | 13.57           | 133/27    | 133 x 0.36 | 0.062                | 1.57 | 0.337            | 8.56  | 25 kV   |
| 390645   | 6         | 13.57           | 133/27    | 133 x 0.36 | 0.045                | 1.14 | 0.303            | 7.70  | 15 kV   |
| 390462*  | 4         | 21.55           | 133/25    | 133 x 0.45 | 0.062                | 1.57 | 0.393            | 9.98  | 25 kV   |
| 390262*  | 2         | 34.45           | 259/26    | 259 x 0.40 | 0.062                | 1.57 | 0.463            | 11.76 | 25 kV   |

\*Not UL Recognized.

Insulation Colors: White • Black

# High Voltage, Silicone Rubber Wire



## UL VW-1

-40°C to +200°C

Stranded silver-plated  
copper conductor

White silicone rubber insulation

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)

| Part No.       | Wire Size |                 | Stranding |           | Insulation Thickness |      | Nominal Diameter |       | Voltage |
|----------------|-----------|-----------------|-----------|-----------|----------------------|------|------------------|-------|---------|
|                | AWG       | mm <sup>2</sup> | AWG       | mm        | Inch                 | mm   | Inch             | mm    |         |
| <b>39X2220</b> | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.050                | 1.27 | 0.130            | 3.30  | 20 kV   |
| <b>39X2215</b> | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.040                | 1.02 | 0.110            | 2.79  | 15 kV   |
| <b>39X2205</b> | 22        | 0.35            | 7/30      | 7 x 0.25  | 0.020                | 0.51 | 0.070            | 1.78  | 5 kV    |
| <b>39X2025</b> | 20        | 0.62            | 19/32     | 19 x 0.20 | 0.063                | 1.60 | 0.166            | 4.22  | 25 kV   |
| <b>39X2020</b> | 20        | 0.62            | 19/32     | 19 x 0.20 | 0.055                | 1.40 | 0.150            | 3.81  | 20 kV   |
| <b>39X2015</b> | 20        | 0.62            | 19/32     | 19 x 0.20 | 0.040                | 1.02 | 0.120            | 3.05  | 15 kV   |
| <b>39X1825</b> | 18        | 0.96            | 19/30     | 19 x 0.25 | 0.055                | 1.40 | 0.160            | 4.06  | 25 kV   |
| <b>39X1660</b> | 16        | 1.32            | 26/30     | 26 x 0.25 | 0.162                | 4.11 | 0.384            | 9.75  | 60 kV   |
| <b>39X1645</b> | 16        | 1.23            | 19/29     | 19 x 0.28 | 0.125                | 3.18 | 0.306            | 7.77  | 45 kV   |
| <b>39X1635</b> | 16        | 1.23            | 41/32     | 41 x 0.20 | 0.105                | 2.67 | 0.269            | 6.83  | 35 kV   |
| <b>39X1620</b> | 16        | 1.33            | 41/32     | 41 x 0.20 | 0.053                | 1.33 | 0.164            | 4.17  | 20 kV   |
| <b>39X1460</b> | 14        | 1.94            | 19/27     | 19 x 0.36 | 0.157                | 3.99 | 0.385            | 9.78  | 60 kV   |
| <b>39X1260</b> | 12        | 3.08            | 19/25     | 19 x 0.45 | 0.178                | 4.51 | 0.445            | 11.30 | 60 kV   |

# 600 V, Mica-Glass, PTFE Wire



## UL AWM 5107 CSA AWM I A/B

-55°C to +538°C

-55°C to +450°C (UL, CSA)

Stranded nickel-plated  
copper conductor

Mica-glass tape insulation

Tan PTFE-impregnated  
fiberglass jacket

### Availability

100 ft (30.5 m)  
500 ft (152 m)  
1000 ft (305 m)  
Bulk, cut to length

| Part No.       | Wire Size |                 | Stranding |            | Insulation Thickness |      | Nominal Diameter |       |
|----------------|-----------|-----------------|-----------|------------|----------------------|------|------------------|-------|
|                | AWG       | mm <sup>2</sup> | AWG       | mm         | Inch                 | mm   | Inch             | mm    |
| <b>3112010</b> | 20        | 0.51            | 10/30     | 10 x 0.25  | 0.025                | 0.64 | 0.101            | 2.57  |
| <b>3111816</b> | 18        | 0.81            | 16/30     | 16 x 0.25  | 0.025                | 0.64 | 0.111            | 2.82  |
| <b>3111626</b> | 16        | 1.32            | 26/30     | 26 x 0.25  | 0.025                | 0.64 | 0.124            | 3.15  |
| <b>3111441</b> | 14        | 2.08            | 41/30     | 41 x 0.25  | 0.025                | 0.64 | 0.138            | 3.51  |
| <b>3111265</b> | 12        | 3.29            | 65/30     | 65 x 0.25  | 0.025                | 0.64 | 0.157            | 3.99  |
| <b>3111000</b> | 10        | 5.32            | 105/30    | 105 x 0.25 | 0.030                | 0.76 | 0.206            | 5.23  |
| <b>3118133</b> | 8         | 8.63            | 133/29    | 133 x 0.28 | 0.030                | 0.76 | 0.260            | 6.60  |
| <b>3116133</b> | 6         | 13.6            | 133/27    | 133 x 0.36 | 0.030                | 0.76 | 0.304            | 7.72  |
| <b>3114133</b> | 4         | 21.6            | 133/25    | 133 x 0.36 | 0.030                | 0.76 | 0.361            | 9.17  |
| <b>3112133</b> | 2         | 34.4            | 133/23    | 133 x 0.57 | 0.035                | 0.89 | 0.444            | 11.28 |

## 600 V, PTFE/Glass Braid Wire

### High-Temperature



**UL AWM 5196**  
**CSA AWM I A/B**

-55°C to +250°C

Stranded nickel-plated  
copper conductor

White PTFE tape insulation

Double fiberglass serve

Tan PTFE-impregnated  
fiberglass jacket

| Part No.       | Wire Size |                 | Stranding |            | Insulation Thickness |      | Nominal Diameter |      |
|----------------|-----------|-----------------|-----------|------------|----------------------|------|------------------|------|
|                | AWG       | mm <sup>2</sup> | AWG       | mm         | Inch                 | mm   | Inch             | mm   |
| <b>3131816</b> | 18        | 0.81            | 19/30     | 16 x 0.25  | 0.016                | 0.41 | 0.109            | 2.77 |
| <b>3131626</b> | 16        | 1.32            | 26/30     | 26 x 0.25  | 0.016                | 0.41 | 0.122            | 3.10 |
| <b>3131441</b> | 14        | 2.08            | 41/30     | 41 x 0.25  | 0.016                | 0.41 | 0.136            | 3.45 |
| <b>3131265</b> | 12        | 3.29            | 65/30     | 65 x 0.25  | 0.016                | 0.41 | 0.155            | 3.94 |
| <b>3131000</b> | 10        | 5.32            | 105/30    | 105 x 0.25 | 0.016                | 0.41 | 0.180            | 4.57 |
| <b>3138133</b> | 8         | 8.61            | 133/29    | 133 x 0.29 | 0.016                | 0.41 | 0.232            | 5.89 |
| <b>3136133</b> | 6         | 13.6            | 133/27    | 133 x 0.36 | 0.016                | 0.41 | 0.315            | 8.00 |

#### Availability

100 ft (30.5 m)

500 ft (152 m)

1000 ft (305 m)

Bulk, cut to length

## 600V, EPDM Welding Cable



-50°C to +105°C

Stranded bare  
copper conductor

Black EPDM rubber insulation

#### Availability

Bulk, cut to length

| Part No.    | Wire Size |                 | Stranding |             | Insulation Thickness |      | Nominal Diameter |       | Current-Carrying Capacity | Voltage Drop* |
|-------------|-----------|-----------------|-----------|-------------|----------------------|------|------------------|-------|---------------------------|---------------|
|             | AWG       | mm <sup>2</sup> | AWG       | mm          | Inch                 | mm   | Inch             | mm    |                           |               |
| <b>6112</b> | 6         | 13.5            | 266/30    | 266 x 0.25  | 0.060                | 1.52 | 0.320            | 8.13  | 75                        | 3.30          |
| <b>6113</b> | 4         | 19.9            | 392/30    | 392 x 0.25  | 0.060                | 1.52 | 0.375            | 9.53  | 100                       | 2.80          |
| <b>6115</b> | 2         | 32.6            | 644/30    | 644 x 0.25  | 0.060                | 1.52 | 0.440            | 11.18 | 200                       | 3.60          |
| <b>6116</b> | 1         | 39.7            | 784/30    | 784 x 0.25  | 0.080                | 2.03 | 0.515            | 13.08 | 250                       | 3.80          |
| <b>6117</b> | 1/0       | 52.0            | 1026/30   | 1026 x 0.25 | 0.080                | 2.03 | 0.550            | 13.97 | 300                       | 3.60          |
| <b>6118</b> | 2/0       | 63.5            | 1254/30   | 1254 x 0.25 | 0.080                | 2.03 | 0.590            | 14.99 | 375                       | 3.37          |
| <b>6119</b> | 3/0       | 81.8            | 1615/30   | 1615 x 0.25 | 0.080                | 2.03 | 0.660            | 16.76 | 450                       | 3.40          |
| <b>6120</b> | 4/0       | 104             | 2056/30   | 2056 x 0.25 | 0.080                | 2.03 | 0.725            | 18.42 | 550                       | 3.30          |

\*Voltage drop per 100 ft (30.5 m) at 60°C.

## 1000/2000 V, XLPE, PVC

### Photovoltaic Wire



**UL 4703 PV VW-1 (2000 V)**  
**UL Sunlight Resistant**

-40°C to +90°C

Stranded tinned  
copper conductor

Black cross-linked  
polyethylene insulation

Black PVC jacket

| Part No.      | Wire Size |                 | Stranding |            | Insulation/Jacket Thickness |           | Nominal Diameter |       |
|---------------|-----------|-----------------|-----------|------------|-----------------------------|-----------|------------------|-------|
|               | AWG       | mm <sup>2</sup> | AWG       | mm         | Inch                        | mm        | Inch             | mm    |
| <b>PV1430</b> | 14        | 2.08            | 41/30     | 41 x 0.25  | 0.063/0.032                 | 1.60/0.81 | 0.267            | 6.78  |
| <b>PV1230</b> | 12        | 3.29            | 65/30     | 65 x 0.25  | 0.063/0.032                 | 1.60/0.81 | 0.286            | 7.26  |
| <b>PV1030</b> | 10        | 5.32            | 105/30    | 105 x 0.25 | 0.063/0.032                 | 1.60/0.81 | 0.311            | 7.90  |
| <b>PV0830</b> | 8         | 8.51            | 168/30    | 168 x 0.25 | 0.078/0.032                 | 1.98/0.81 | 0.390            | 9.91  |
| <b>PV0630</b> | 6         | 13.5            | 266/30    | 266 x 0.25 | 0.078/0.032                 | 1.98/0.81 | 0.433            | 11.00 |
| <b>PV0430</b> | 4         | 21.3            | 420/30    | 420 x 0.25 | 0.078/0.032                 | 1.98/0.81 | 0.491            | 12.47 |
| <b>PV0230</b> | 2         | 33.7            | 665/30    | 665 x 0.25 | 0.078/0.032                 | 1.98/0.81 | 0.558            | 14.17 |

#### Availability

100 ft (30.5 m)

1000 ft (305 m)

# 150/600 V, PVC

## Ribbon Cable



**MIL-DTL-16878/1 (Type B)**  
**(600 V)**  
**UL AWM 2713 (150 V) VW-1**

-20°C to +105°C (MIL)  
-20°C to +80°C (AWM)

Brown, red, orange, yellow,  
green, blue, violet, slate, white,  
black . . . repeats

Stranded tinned  
copper conductors

Color-coded PVC insulation  
bonded into a flat configuration

### Availability

100 ft (30.5 m)

#### 26 AWG (0.14 mm<sup>2</sup>)

Stranding: 7/34 (7 x 0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Cable height: 0.039 (0.99 mm)

| Part No.       | Conductors | Width |       |
|----------------|------------|-------|-------|
|                |            | Inch  | mm    |
| <b>3550</b>    | 10         | 0.392 | 9.96  |
| <b>3550/14</b> | 14         | 0.546 | 13.87 |
| <b>3551</b>    | 15         | 0.585 | 14.68 |
| <b>3551/16</b> | 16         | 0.624 | 15.85 |
| <b>3553</b>    | 30         | 1.170 | 29.72 |

#### 24 AWG (0.23 mm<sup>2</sup>)

Stranding: 7/32 (7 x 0.20 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Cable height: 0.044 (1.12 mm)

| Part No.      | Conductors | Width |       |
|---------------|------------|-------|-------|
|               |            | Inch  | mm    |
| <b>3540/7</b> | 10         | 0.440 | 11.18 |
| <b>3541/7</b> | 15         | 0.660 | 16.76 |
| <b>3542/7</b> | 20         | 0.880 | 22.35 |

#### 24 AWG (0.24 mm<sup>2</sup>)

Stranding: 19/36 (19 x 0.12 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Cable height: 0.044 (1.12 mm)

| Part No.    | Conductors | Width |       |
|-------------|------------|-------|-------|
|             |            | Inch  | mm    |
| <b>3540</b> | 10         | 0.440 | 11.18 |
| <b>3541</b> | 15         | 0.660 | 16.76 |
| <b>3542</b> | 20         | 0.880 | 22.35 |
| <b>3543</b> | 30         | 1.320 | 33.53 |

#### 22 AWG (0.35 mm<sup>2</sup>)

Stranding: 7/30 (7 x 0.25 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Cable height: 0.050 (1.27 mm)

| Part No.      | Conductors | Width |       |
|---------------|------------|-------|-------|
|               |            | Inch  | mm    |
| <b>3530/7</b> | 10         | 0.500 | 12.70 |
| <b>3531/7</b> | 15         | 0.750 | 19.05 |
| <b>3532/7</b> | 20         | 1.000 | 25.40 |
| <b>3533/7</b> | 30         | 1.500 | 38.10 |

#### 22 AWG (0.38 mm<sup>2</sup>)

Stranding: 19/34 (19 x 0.16 mm)  
Insulation thickness: 0.010 (0.25 mm)  
Cable height: 0.051 (1.29 mm)

| Part No.    | Conductors | Width |       |
|-------------|------------|-------|-------|
|             |            | Inch  | mm    |
| <b>3530</b> | 10         | 0.510 | 12.95 |
| <b>3531</b> | 15         | 0.765 | 19.43 |
| <b>3532</b> | 20         | 1.020 | 25.91 |
| <b>3533</b> | 30         | 1.530 | 38.86 |

# 300/1000 V, PVC

## Ribbon Cable



**MIL-DTL-16878/2 (Type C)**  
**(1000 V)**  
**UL AWM 2555 (300 V)**

-20°C to +105°C (MIL)  
-20°C to +80°C (AWM)

Brown, red, orange, yellow,  
green, blue, violet, slate, white,  
black . . . repeats

Stranded tinned  
copper conductors

Color-coded PVC insulation  
bonded into a flat configuration

**Availability**

100 ft (30.5 m)

| 22 AWG (0.35 mm²)                                                                                       |            |       |       |
|---------------------------------------------------------------------------------------------------------|------------|-------|-------|
| Stranding: 7/30 (7 x 0.25 mm)<br>Insulation thickness: 0.016 (0.41 mm)<br>Cable height: 0.065 (1.65 mm) |            |       |       |
| Part No.                                                                                                | Conductors | Width |       |
|                                                                                                         |            | Inch  | mm    |
| <b>3505</b>                                                                                             | 5          | 0.310 | 7.87  |
| <b>3510</b>                                                                                             | 10         | 0.620 | 15.75 |
| <b>3515</b>                                                                                             | 15         | 0.930 | 23.62 |
| <b>3520</b>                                                                                             | 20         | 1.240 | 31.50 |

## Bus Bar Wire



**CID AA-59551 Type S**  
**ASTM B33**

Electrolytic soft-drawn  
and annealed solid tin-plated  
copper conductor

**Availability**

100 ft (30.5 m)  
1000 ft (305 m)

| Part No      | Wire Size |       |      | Diameter |      |
|--------------|-----------|-------|------|----------|------|
|              | AWG       | CMA   | mm²  | Inch     | mm   |
| <b>938</b>   | 38        | 16    | .008 | 0.004    | 0.10 |
| <b>936</b>   | 36        | 25    | 0.01 | 0.005    | 0.13 |
| <b>934</b>   | 34        | 40    | 0.02 | 0.006    | 0.15 |
| <b>932</b>   | 32        | 64    | 0.03 | 0.008    | 0.20 |
| <b>299/3</b> | 30        | 100   | 0.05 | 0.010    | 0.25 |
| <b>299/2</b> | 28        | 159   | 0.08 | 0.013    | 0.33 |
| <b>299/1</b> | 26        | 253   | 0.12 | 0.016    | 0.41 |
| <b>299</b>   | 24        | 404   | 0.20 | 0.020    | 0.51 |
| <b>298</b>   | 22        | 640   | 0.32 | 0.025    | 0.64 |
| <b>297</b>   | 20        | 1020  | 0.51 | 0.032    | 0.81 |
| <b>296</b>   | 18        | 1620  | 0.82 | 0.040    | 1.02 |
| <b>295</b>   | 16        | 2580  | 1.31 | 0.051    | 1.30 |
| <b>286</b>   | 14        | 4110  | 2.08 | 0.064    | 1.63 |
| <b>289</b>   | 12        | 6530  | 3.31 | 0.081    | 2.06 |
| <b>910</b>   | 10        | 10380 | 5.26 | 0.102    | 2.59 |
| <b>908</b>   | 8         | 16510 | 8.37 | 0.129    | 3.28 |
| <b>906</b>   | 6         | 26250 | 13.3 | 0.162    | 4.11 |

# Hook-Up Wire Kits



Alpha's hook-up wire kits contain an assortment of 100 ft (30.5 m) spools of hook-up wire suitable for military or UL/CSA applications. These kits have been designed for use by technicians, engineers, and designers in the R&D lab or maintenance shop. Each kit contains a stripping tool and five spools of hook-up wire in a unique, rack-mounted, transparent dispensing tube. The tube and rack system keeps hook-up wire neat, clean, and conveniently at hand.

| Part No.         | Wire Type                               | Wire Size |                 | Colors                                 | Wire Length (each order) |        | Reorder No. |
|------------------|-----------------------------------------|-----------|-----------------|----------------------------------------|--------------------------|--------|-------------|
|                  |                                         | AWG       | mm <sup>2</sup> |                                        | Feet                     | Meters |             |
| <b>HU-KIT-40</b> | UL AWM 1007<br>UL AWM 1569<br>CSA TR 64 | 24        | 0.23            | White<br>Black<br>Red<br>Green<br>Blue | 100                      | 30.5   | 3050        |
| <b>HU-KIT-30</b> | MIL-W-76B Type MW                       | 24        | 0.23            | White<br>Black<br>Red<br>Green<br>Blue | 100                      | 30.5   | 1550        |
| <b>HU-KIT-20</b> | UL AWM 1007<br>UL AWM 1569<br>CSA TR 64 | 22        | 0.36            | White<br>Black<br>Red<br>Green<br>Blue | 100                      | 30.5   | 3051        |
| <b>HU-KIT-10</b> | MIL-W-76B Type MW                       | 22        | 0.36            | White<br>Black<br>Red<br>Green<br>Blue | 100                      | 30.5   | 1551        |

-40°C to +80°C  
(HU-KIT-10, 30)

-40°C to +105°C  
(HU-KIT-20, 40)

1000 V (HU-KIT-10, 30)

300 V (HU-KIT-20, 40)

Stranded tinned  
copper conductor

Color-coded PVC insulation

## Availability

1 box

## How to Order Alpha Hook-Up Wire

The following applies to our most popular hook-up wires.

**1.** Start with the base part number for the product.

**2.** Add the insulation color code. The most common choices are:

|                 |                        |                        |                  |
|-----------------|------------------------|------------------------|------------------|
| <b>BK</b> Black | <b>GY</b> Green/Yellow | <b>SL</b> Slate        | <b>YL</b> Yellow |
| <b>BL</b> Blue  | <b>OR</b> Orange       | <b>VI</b> Violet       |                  |
| <b>BR</b> Brown | <b>PK</b> Pink         | <b>WH</b> White        |                  |
| <b>GR</b> Green | <b>RD</b> Red          | <b>YG</b> Yellow/Green |                  |

**3.** Add the put-up code for the desire length. The most common choices are:

|                    |
|--------------------|
| <b>005</b> 100 ft  |
| <b>001</b> 1000 ft |
| <b>013</b> 5000 ft |

## Example:

**3070 BK001** = Part No. 3070 with black insulation in a 100-foot put-up.

Note: See the wire's Product Specification for complete range of color choices. Product Specifications are available at [www.alphawire.com](http://www.alphawire.com).

## The cables you trust. The service you deserve.

Every application is critical and wire failure is not an option when the safety of your equipment and personnel is paramount. Specify Alpha hook-up wire for harsh environments and crucial applications; since the integrity of your system is only as robust as the products you use.

## Superior availability

Alpha offers hook-up wire from stock in most sizes and constructions, in both small and large put-ups, so you can order it when you need it. Our products are available for same-day shipment, eliminating long lead times.

## Service and support, second-to-none

Selecting the correct wire for your critical application is essential to overall system reliability, performance, and safety. So we make it easy for you select the right Alpha hook-up wire for your specific application.

Our online resources include a wire and cable selection guide, technical information, full product catalog, and a distributor locator to make it easy to select and get the cable you need. Can't find what you're looking for? Design the cable to your specification, it's easy, just visit **[www.alphawire.com](http://www.alphawire.com)**!

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Tel: 1-908-925-8000  
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**AlphaWire**

*Cables you trust. Service you deserve.*

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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

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