

Caledonian Military Cables

MIL-W-81044/9

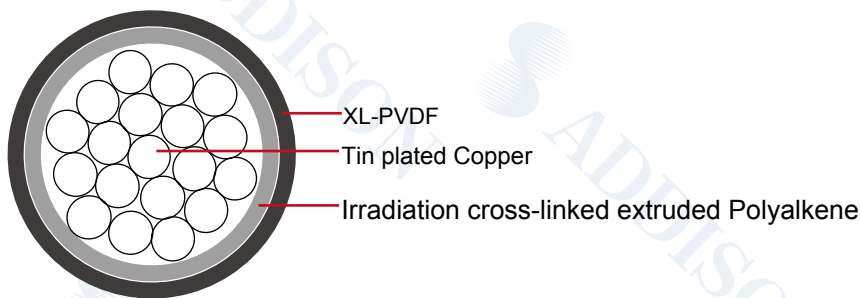
Applications:

MIL-W-81044 wire may be used for airframe, avionics, military vehicle, shipboard, missile and other electronic applications. Additionally, the dual layer, lightweight, high temperature wire offers outstanding performance that makes it suitable for many functions where high density cabling and harnessing are required, these wires have excellent resistance to cut-through, abrasion, cold flow, shrink back, notch propagation and common chemicals.

Construction Details

The jacket is XL-PVDF

Construction



Conductor: Tin plated Copper

Insulation: Irradiation cross-linked extruded Polyalkene insulation

jacket: Extruded XL Polyvinylidene Fluoride (XL-PVDF)

Insulating Material Thickness: 30 mil (0.8 mm) to 85 mil (2.2mm)

Characteristics

Temperature Rating: 150°C

Voltage Rating: 600 volts

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SAE AS81044

10 basic colors



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Dimensions and Weight

| AWG Size | Conductor Stranding | Min O.D. | | Max O.D. | | Approx LBS/ MFT |
|----------|---------------------|----------|--------|----------|--------|-----------------|
| | | In | Mm | In | mm | |
| 24 | 19/36 | 0.052 | 1.321 | 0.056 | 1.422 | 2.70 |
| 22 | 19/34 | 0.059 | 1.499 | 0.065 | 1.651 | 3.90 |
| 20 | 19/32 | 0.067 | 1.702 | 0.073 | 1.854 | 5.50 |
| 18 | 19/30 | 0.077 | 1.956 | 0.083 | 2.108 | 8.00 |
| 16 | 19/29 | 0.085 | 2.159 | 0.093 | 2.362 | 10.10 |
| 14 | 19/27 | 0.104 | 2.642 | 0.112 | 2.845 | 15.50 |
| 12 | 37/28 | 0.122 | 3.099 | 0.130 | 3.302 | 23.00 |
| 10 | 37/26 | 0.150 | 3.810 | 0.160 | 4.064 | 35.70 |
| 8 | 133/29 | 0.208 | 5.283 | 0.220 | 5.588 | 62.80 |
| 6 | 133/27 | 0.257 | 6.528 | 0.271 | 6.883 | 99.30 |
| 4 | 133/25 | 0.321 | 8.153 | 0.328 | 8.331 | 153.00 |
| 2 | 665/30 | 0.388 | 9.855 | 0.412 | 10.465 | 247.00 |
| 1/0 | 1045/30 | 0.474 | 12.040 | 0.506 | 12.852 | 377.00 |