

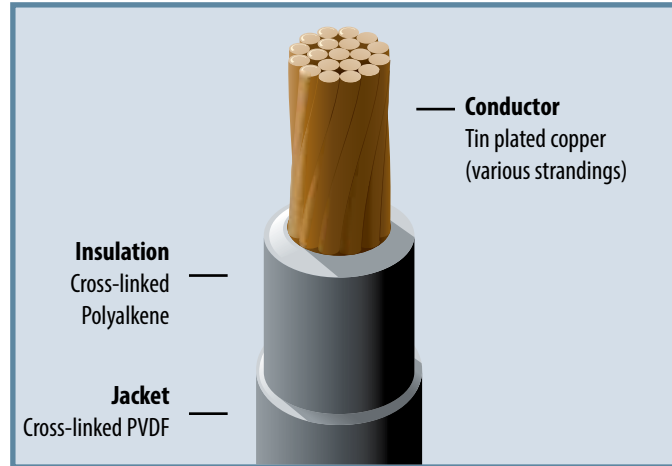
SAE AS81044/12

Cross-Linked Polyalkene /PVDF - 600V, 150°C

APPLICATION

This dual layer, lightweight, high temperature wire offers outstanding performance that makes it suitable for many applications where high density cabling and harnessing are required. Besides offering size and weight advantages, these wires have excellent resistance to cut-through, abrasion, cold flow, shrink back, notch propagation, and common chemicals. In addition, they strip and stripe easily, may be potted, and have low smoke characteristics. This wire should be considered for airframe, avionics, military vehicle, shipboard, missile, and other electronic applications.

Lightweight Wall



CONDUCTOR

Soft annealed tin plated copper, stranded as listed below.

INSULATION

Irradiation cross-linked extruded Polyalkene meeting the requirements of the below specification.

JACKET

Clear Irradiation cross-linked extruded Polyvinylidene Fluoride (PVDF) with a wall thickness of $0.003 \pm .001$ inches ($.076 \pm .025$ mm). Finished wire diameter and weight as listed below.

| Part Number | Conductor | | | Material | Conductor Resistance @20°C | | Nom. Diameter | | Weight | |
|---------------|-----------|-----------------|-----------|----------|----------------------------|------|---------------|------|---------|-------|
| | Size | | Stranding | | Ω/kft | Ω/km | Inch | mm | lbs/kft | kg/km |
| | AWG | mm ² | | | | | | | | |
| 81044/12-28-X | 28 | .09 | 7/36 | TC | 68.6 | 225 | .030 | .76 | .96 | 1.43 |
| 81044/12-26-X | 26 | .15 | 19/38 | | 41.3 | 136 | .034 | .86 | 1.4 | 2.08 |
| 81044/12-24-X | 24 | .24 | 19/36 | | 26.2 | 86.0 | .040 | 1.02 | 2.1 | 3.12 |
| 81044/12-22-X | 22 | .38 | 19/34 | | 16.2 | 53.2 | .047 | 1.19 | 3.1 | 4.61 |
| 81044/12-20-X | 20 | .62 | 19/32 | | 9.88 | 32.4 | .055 | 1.40 | 4.6 | 6.84 |
| 81044/12-18-X | 18 | .96 | 19/30 | | 6.23 | 20.4 | .065 | 1.65 | 7.0 | 10.4 |
| 81044/12-16-X | 16 | 1.23 | 19/29 | | 4.81 | 15.8 | .072 | 1.83 | 8.9 | 13.2 |
| 81044/12-14-X | 14 | 1.94 | 19/27 | | 3.06 | 10.0 | .089 | 2.26 | 13.9 | 21.0 |
| 81044/12-12-X | 12 | 4.74 | 37/28 | | 2.02 | 6.63 | .108 | 2.74 | 21.7 | 32.0 |

X = color. See page 67 for color designator.

The above part numbers represent the more popular constructions. However, other designs are available upon request. All products are manufactured to meet RoHS compliance. For exceptions, please contact our sales department.

APPROVALS AND RATINGS

150°C conductor temperature, 600 volt. SAE AS81044/12.

CABLES

Cables may be assembled using the requirements of NEMA WC 27500, using Type ML components.

