

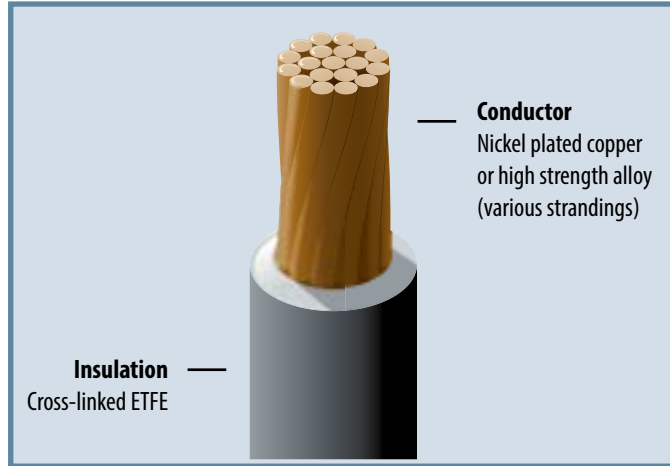
SAE AS22759/45 & 46

Cross-Linked ETFE - 600V, 200°C

APPLICATION

These lightweight, high-temperature airframe and avionics wires utilize an insulation of cross-linked, modified ethylene tetrafluoroethylene copolymer (ETFE). The insulation resists high PH cleaning fluids, fuels, lubricating oils, and many other chemicals. These wires can withstand temperature test extremes ranging from cold bend at -65°C through aging at 300°C for 7 hours. These wires are a mechanically tough, flame retardant, and weight saving solution to many aerospace applications.

Lightweight Wall



CONDUCTOR

Nickel plated copper for /45 and nickel plated high strength copper alloy for /46, stranded as listed above.

INSULATION

Single layer of irradiation cross-linked extruded ETFE meeting the requirements of the above specification.

| Part Number | Conductor | | | | Conductor Resistance @20°C | | Nom. Diameter | | Weight | |
|---------------|-----------|-----------------|-----------|----------|----------------------------|------|---------------|------|---------|-------|
| | Size | | Stranding | Material | Ω/kft | Ω/km | Inch | mm | lbs/kft | kg/km |
| | AWG | mm ² | | | | | | | | |
| 22759/45-26-X | 26 | .15 | 19/38 | NC | 42.2 | 138 | .032 | .81 | 1.4 | 2.08 |
| 22759/45-24-X | 24 | .24 | 19/36 | | 25.9 | 85.0 | .037 | .94 | 2.0 | 2.98 |
| 22759/45-22-X | 22 | .38 | 19/34 | | 16.0 | 52.5 | .043 | 1.09 | 2.8 | 4.17 |
| 22759/45-20-X | 20 | .62 | 19/32 | | 9.77 | 32.1 | .050 | 1.27 | 4.3 | 6.40 |
| 22759/45-18-X | 18 | .96 | 19/30 | | 6.10 | 20.0 | .060 | 1.52 | 6.5 | 9.67 |
| 22759/45-16-X | 16 | 1.23 | 19/29 | | 4.76 | 15.6 | .068 | 1.73 | 8.3 | 12.3 |
| 22759/45-14-X | 14 | 1.94 | 19/27 | | 3.00 | 9.84 | .085 | 2.16 | 13.0 | 19.0 |
| 22759/45-12-X | 12 | 3.08 | 37/28 | | 1.98 | 6.50 | .103 | 2.62 | 19.7 | 29.0 |
| 22759/46-26-X | 26 | .15 | 19/38 | NA | 49.4 | 162 | .032 | .81 | 1.4 | 2.08 |
| 22759/46-24-X | 24 | .24 | 19/36 | | 30.1 | 98.8 | .037 | .94 | 2.0 | 2.98 |
| 22759/46-22-X | 22 | .38 | 19/34 | | 18.6 | 61.0 | .043 | 1.09 | 2.9 | 4.31 |
| 22759/46-20-X | 20 | .62 | 19/32 | | 11.4 | 37.4 | .050 | 1.27 | 4.4 | 6.55 |

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

200°C conductor temperature, 600 volt. SAE AS22759/45 and /46.

CABLES

Cables may be assembled using the requirements of NEMA WC 27500, using Type SS and ST components of /45 and /46 respectively.

