# SAE AS22759/34

**-55°C to +150°C, 600V**



## Construction
**Conductor:** Tinned Copper
**Insulation:** Extruded · XL-ETFE
**Jacket:** Extruded overall jacket · XL-ETFE
**Aromatic polyamide braid:** Sizes 2 AWG and larger: additional treated dark green aromatic polyamide braid.

## Thermal Characteristics
**Operating Temperature:** -55°C to +150°C

## Electrical Characteristics
**Operating Voltage:** 600V

## Application
**General purpose airframe:** Airframe and aerospace equipment wiring requiring a normal-weight cross-linked ETFE-insulated wire.

## General Characteristics
**Cross-Linked Modified ETFE Insulation:** Radiation cross-linked modified ETFE provides cut-through and abrasion resistance in airframe service.
**Arc-Tracking Resistance:** Modified ETFE insulation resists electrical arc tracking and offers exceptional resistance to aircraft fluids and solvents.

## Standards & Approvals
**SAE AS22759/34:** Fluoropolymer-insulated airframe wire, cross-linked modified ETFE (XL-ETFE), normal weight, tin-coated copper conductor, 600 V, 150 °C.

RoHS COMPLIANT REACH COMPLIANT

| CASMO Part No. | Conductor | | | | Cable | | Max. DCR @20°C (Ω/km) | Max. Cable Weight (kg/km) |
|---|---|---|---|---|---|---|---|---|
| | Conductor Size (AWG) | No. Of Strands | Nom. Strand Dia. (mm) | Max. Conductor Dia. (mm) | Nom. O.D. (mm) | O.D. Tolerance ± (mm) | | |
| AS22759/34-24-* | 24 | 19 | 0.127 | 0.64 | 1.14 | 0.05 | 86 | 3.423 |
| AS22759/34-22-* | 22 | 19 | 0.16 | 0.79 | 1.27 | 0.05 | 53.1 | 4.762 |
| AS22759/34-20-* | 20 | 19 | 0.203 | 0.99 | 1.47 | 0.05 | 32.4 | 6.994 |
| AS22759/34-18-* | 18 | 19 | 0.254 | 1.24 | 1.78 | 0.08 | 20.4 | 10.71 |
| AS22759/34-16-* | 16 | 19 | 0.287 | 1.4 | 1.96 | 0.08 | 15.8 | 13.39 |
| AS22759/34-14-* | 14 | 19 | 0.361 | 1.75 | 2.39 | 0.08 | 10 | 20.54 |
| AS22759/34-12-* | 12 | 37 | 0.32 | 2.26 | 2.82 | 0.08 | 6.63 | 30.51 |
| AS22759/34-10-* | 10 | 37 | 0.404 | 2.87 | 3.4 | 0.1 | 4.13 | 48.22 |
| AS22759/34-8-* | 8 | 133 | 0.287 | 4.39 | 4.95 | 0.2 | 2.3 | 89.74 |
| AS22759/34-6-* | 6 | 133 | 0.361 | 5.51 | 6.12 | 0.25 | 1.46 | 140.6 |
| AS22759/34-4-* | 4 | 133 | 0.455 | 6.96 | 7.87 | 0.25 | 0.919 | 223.2 |
| AS22759/34-2-5D | 2 | 665 | 0.254 | 8.64 | 10.29 | 0.41 | 0.6 | 355.7 |
| AS22759/34-1-5D | 1 | 817 | 0.254 | 9.65 | 11.3 | 0.41 | 0.489 | 431.6 |
| AS22759/34-01-5D | 1/0 | 1045 | 0.254 | 10.8 | 12.32 | 0.41 | 0.381 | 561 |
| AS22759/34-02-5D | 2/0 | 1330 | 0.254 | 12.07 | 13.84 | 0.41 | 0.299 | 724.7 |

**Table Notes**

* Replace "*" in part number with insulation color digit 0–9 per MIL-STD-681 (see Color Code Chart below; 9 White preferred). Sizes 2 AWG and larger include a treated dark green aromatic polyamide braid (designator 5D).

Please confirm application-specific requirements with CASMO before ordering. Specifications are subject to change; please ensure you are using the latest revision.

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**Table Notes (continued)**

1. Manufactured to SAE AS22759 (non-QPL); Max. DCR at 20°C and Max. Cable Weight are standard limits.

| COLOR CODE CHART | | | | | |
|---|---|---|---|---|---|
| **Cond. #** | **Color** | **Cond. #** | **Color** | **Cond. #** | **Color** |
| 0 | Black | 4 | Yellow | 8 | Gray |
| 1 | Brown | 5 | Green | 9 | White |
| 2 | Red | 6 | Blue | | |
| 3 | Orange | 7 | Violet | | |

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