SAE AS22759/33

-55°C to +200°C, 600V



Construction
Conductor: Silver-Plated High-Strength Copper Alloy
Insulation: Extruded · XL-ETFE

Thermal Characteristics
Operating Temperature: -55°C to +200°C

Electrical Characteristics
Operating Voltage: 600V

Application
Aerospace & Avionics Wiring: Fine-gauge aerospace signal and avionics wiring requiring high tensile break strength and compact thin-wall XL-ETFE insulation.

General Characteristics
Lightweight Thin-Wall XL-ETFE: Radiation cross-linked modified ETFE reduces bundle diameter and harness weight while preserving mechanical cut-through strength.
Fluid & Arc-Tracking Resistance: Resists aircraft hydraulic fluids, fuels, cleaning solvents, and electrical arc tracking.

Standards & Approvals
SAE AS22759/33: Fluoropolymer-insulated airframe wire, cross-linked modified ETFE (XL-ETFE), lightweight thin-wall, silver-coated high-strength copper alloy conductor, 600 V, 200 °C.

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)		
AS22759/33-30-*	30	7	0.102	0.33	0.61	0.05	381	0.98
AS22759/33-28-*	28	7	0.127	0.41	0.69	0.05	239	1.35
AS22759/33-26-*	26	19	0.102	0.51	0.81	0.05	147	2.08
AS22759/33-24-*	24	19	0.127	0.64	0.94	0.05	94.2	2.98
AS22759/33-22-*	22	19	0.16	0.79	1.09	0.05	57.7	4.17
AS22759/33-20-*	20	19	0.203	0.99	1.27	0.05	35.8	6.4

Table Notes

* Replace "*" in part number with insulation color digit 0–9 per MIL-STD-681 (see Color Code Chart below; 9 White preferred).

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		

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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