SAE AS22759/12

-55°C to +260°C, 600V



Construction
Conductor: Nickel Plated Copper
Insulation: Extruded · PTFE

Thermal Characteristics
Operating Temperature: -55°C to +260°C

Electrical Characteristics
Operating Voltage: 600V

Application
Aerospace & Avionics Wiring: High-temperature aerospace and avionics equipment wiring requiring 600 V extruded PTFE insulation up to 260°C.

General Characteristics
Thermal & Fluid Inertness: Extruded PTFE insulation resists aviation fuels, hydraulic fluids, lubricants, and extreme thermal cycling.
Dielectric & Non-Flammability Performance: Low dielectric loss and inherent fluoropolymer non-flammability for demanding airframe and avionics service.

Standards & Approvals
SAE AS22759/12: Fluoropolymer-insulated airframe wire, extruded PTFE, medium weight, nickel-coated copper conductor, 600 V, 260 °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)		
AS22759/12-28-*	28	7	0.127	0.41	0.84	0.05	222.1	1.64
AS22759/12-26-*	26	19	0.102	0.53	0.97	0.05	134.5	2.38
AS22759/12-24-*	24	19	0.127	0.64	1.09	0.05	84.3	3.42
AS22759/12-22-*	22	19	0.16	0.81	1.27	0.05	52.2	5.06
AS22759/12-20-*	20	19	0.203	1.02	1.47	0.05	32.5	7.44
AS22759/12-18-*	18	19	0.254	1.27	1.75	0.08	20.3	11.31
AS22759/12-16-*	16	19	0.287	1.45	1.96	0.08	15.6	14.43
AS22759/12-14-*	14	19	0.361	1.83	2.39	0.08	9.84	22.02
AS22759/12-12-*	12	19	0.455	2.29	2.87	0.1	6.17	33.48
AS22759/12-10-*	10	37	0.404	2.9	3.53	0.1	4.07	52.08
AS22759/12-8-*	8	133	0.287	4.39	5.21	0.15	2.28	98.22

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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