

Caledonian Military Cables

MIL-W-22759/3

Application and Description

These PTFE, FEP, and Glass insulated single-core MIL-W-22759/3 wires are used for MIL-Spec and Aerospace, government applications. These wires are used in aircraft engines and abrasion environment.

Construction Details

The first layer is PTFE either as a wrapped tape or PTFE coated glass tape. The second layer is PTFE coated glass braid and finisher. The jacket FEP is either extruded or on larger wire sizes a tape; the FEP has to be fused.

Construction

Conductor: Nickel plated copper

Insulation: PTFE, FEP, and Glass

Insulating Material Thickness: 40 mil (1.0 mm) to 125 mil (3.2mm)

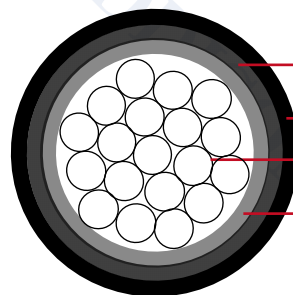
Characteristics

Temperature Rating: 260°C

Voltage Rating: 600 volts

SAE AS22759/3

Color Code: MIL-STD-681



Glass insulation

FEP insulation

Nickel plated copper conductor

PTFE insulation

Dimensions and Weight

AWG Size	Conductor Stranding	Conductor Diam. Min		Conductor Diam. Max		Min O.D.		Max O.D.		Approx LBS/MFT
		in	mm	in	mm	in	mm	in	mm	
22	19/34	0.029	0.737	0.033	0.838	0.08	2.032	0.088	2.235	5.9
20	19/32	0.037	0.940	0.041	1.041	0.09	2.286	0.098	2.489	7.9
18	19/30	0.046	1.168	0.051	1.295	0.10	2.540	0.110	2.794	11.0
16	19/29	0.052	1.321	0.058	1.473	0.115	2.921	0.125	3.175	13.6
14	19/27	0.065	1.651	0.073	1.854	0.133	3.378	0.143	3.632	18.5
12	37/28	0.084	2.134	0.090	2.286	0.152	3.861	0.162	4.115	26.6
10	37/16	0.106	2.692	0.114	2.896	0.174	4.420	0.188	4.775	41.5
8	133/29	0.158	4.013	0.173	4.394	0.241	6.121	0.255	6.477	77.4
6	133/27	0.198	5.029	0.217	5.512	0.283	7.188	0.303	7.696	115.0
4	133/25	0.250	6.350	0.274	6.960	0.40	10.16	0.430	10.922	184.0
2	665/30	0.320	8.128	0.340	8.636	0.405	10.287	0.435	11.049	281.0
1	817/30	0.360	9.144	0.380	9.652	0.455	11.557	0.485	12.319	358.0
1/0	1045/30	0.395	10.033	0.425	10.795	0.495	12.573	0.535	13.589	436.0
2/0	1330/30	0.440	11.176	0.475	12.065	0.555	14.097	0.595	15.113	554.0