



Caledonian Military Cables

MIL-W-22759/87

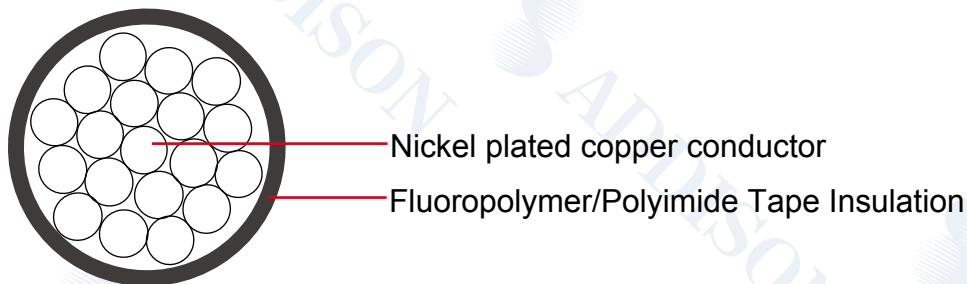
Application and Description

These PTFE tape insulation single-core MIL-W-22759/87 wires are used for MIL-Spec and Aerospace, these cables are normal weight, high-performance, aerospace hook up wires with insulation composed of PTFE/polyimide/PTFE tape and PTFE tape in several configurations. These wires are designed for aerospace and other applications which require excellent thermal stability and good abrasion resistance.

Construction Details

Sizes 10 to 26 have a PTFE/K/PTFE layer construction. Sizes 6 to 8 have a PTFE layer with an intermediate K layer and a top PTFE layer. Sizes 4 to 4/0 have a PTFE layer with an intermediate K layer and two top PTFE layers.

Construction



Conductor: Nickel plated copper

Insulation: Fluoropolymer/Polyimide Tape

Insulating Material Thickness: Size 10 to 26 - 16 mil (0.5 mm) Size 6 to 8 - 22 mil (0.6 mm) Size 4 - 25 mil (0.6 mm) Size 2 to 4/0 - 25 mil (0.6 mm)

Characteristics

Temperature Rating: 260°C

Voltage Rating: 600 volts

MIL-Spec Wire

SAE AS22759/87

Color Code: MIL-STD-681



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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	
26	19/38	0.018	0.445	0.020	0.518	0.033	0.838	0.037	0.940	1.55
24	19/36	0.023	0.572	0.024	0.620	0.038	0.965	0.042	1.067	2.15
22	19/34	0.029	0.724	0.031	0.798	0.043	1.092	0.047	1.194	3.00
20	19/32	0.037	0.927	0.039	1.001	0.051	1.295	0.055	1.397	4.55
18	19/30	0.046	1.156	0.049	1.255	0.061	1.549	0.065	1.651	6.70
16	19/29	0.052	1.308	0.055	1.407	0.068	1.727	0.073	1.854	8.60
14	19/27	0.065	1.638	0.069	1.763	0.081	2.057	0.086	2.184	12.95
12	37/28	0.084	2.121	0.089	2.271	0.100	2.540	0.105	2.667	20.10
10	37/26	0.106	2.692	0.112	2.845	0.122	3.099	0.127	3.226	31.40
8	133/29	0.158	4.013	0.169	4.293	0.18	4.572	0.188	4.775	57.60
6	133/27	0.198	5.029	0.212	5.385	0.219	5.563	0.229	5.817	88.30
4	133/25	0.250	6.350	0.268	6.807	0.276	7.010	0.288	7.315	143.00
2	665/30	0.320	8.128	0.340	8.636	0.344	8.738	0.364	9.246	222.00
1	817/30	0.366	9.296	0.380	9.652	0.388	9.855	0.408	10.363	289.00
1/0	1045/30	0.395	10.033	0.425	10.795	0.420	10.668	0.450	11.430	345.00
2/0	1330/30	0.440	11.176	0.476	12.090	0.475	12.065	0.505	12.827	432.00
3/0	1665/30	0.500	12.70	0.540	13.716	0.530	13.462	0.560	14.224	542.00
4/0	2109/30	0.565	14.351	0.605	15.367	0.590	14.986	0.630	16.002	681.00