

Caledonian Military Cables

MIL-W-22759/83

Application and Description

These PTFE tape insulation single-core MIL-W-22759/83 wires are used for MIL-Spec and Aerospace, these cables are large size, high-performance aerospace hook up wires with a four-layer insulation of PTFE tape and PTFE/polyimide/PTFE tape, with an outer layer of polyamide braid for superior abrasion resistance. These wires are designed for aerospace and other applications which require excellent thermal stability and abrasion resistance.

Construction Details

A PTFE layer with an intermediate K layer followed by two top PTFE layers Over these layers is a braid of an Aramid.

Construction

Conductor: Silver plated copper

Insulation: Fluoropolymer/Polyimide Tape

Braid: Aramid (option)

Insulating Material Thickness: Size 2 to 1 - 40 mil (1.0 mm) Size 1/0 to 4/0 - 50 mil (1.3 mm)

Characteristics

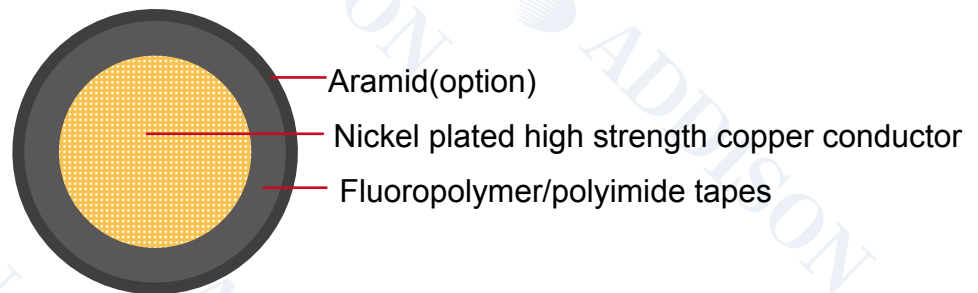
Temperature Rating: 200°C

Voltage Rating: 600 volts

MIL-Spec Wire

SAE AS22759/83

Color Code: MIL-STD-681



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	
2	665/30	0.320	8.128	0.340	8.636	0.360	9.144	0.380	9.652	227
1	817/30	0.366	9.296	0.380	9.652	0.400	10.160	0.420	10.668	295
1/0	1045/30	0.395	10.033	0.425	10.795	0.442	11.227	0.462	11.735	351
2/0	1330/30	0.440	11.176	0.475	12.065	0.498	12.649	0.528	13.411	432
3/0	1665/30	0.500	12.700	0.540	13.716	0.554	14.072	0.584	14.834	542
4/0	2109/30	0.565	14.351	0.605	15.367	0.615	15.621	0.655	16.637	689