



# Caledonian Military Cables

## MIL-W-22759/1

### Application and Description

These PTFE, FEP, and Glass insulated single-core MIL-W-22759/1 wires are used for MIL-Spec and Aerospace, government applications in which wire must operate in extremely harsh environments. These wires are abrasion resistant, withstanding vibration and exposure to open flame.

### Construction Details

The first layer is PTFE wrapped tape. The second and third layers are PTFE coated glass braid.

### Construction

**Conductor:** Silver-plated copper

**Insulation:** PTFE, FEP, and Glass

**Insulating Material Thickness:** 54 mil ( 1.4 mm) to 125 mil ( 3.2mm)

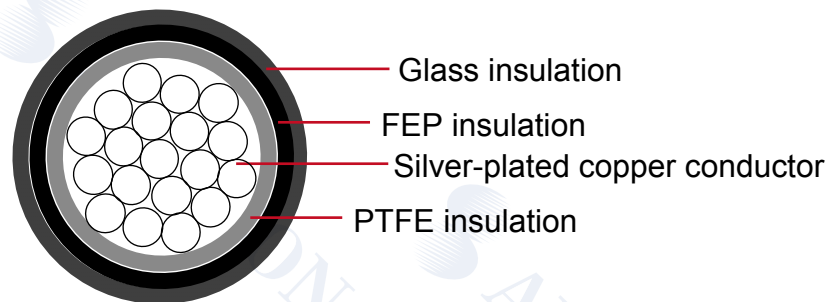
### Characteristics

**Temperature Rating:** 200°C

**Voltage Rating:** 600 volts

SAE AS22759/1

**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	
22	19/34	0.029	0.737	0.032	0.813	0.08	2.032	0.088	2.235	7.5
20	19/32	0.037	0.940	0.040	1.016	0.09	2.286	0.098	2.489	9.5
18	19/30	0.046	1.168	0.050	1.270	0.100	2.540	0.110	2.794	13.0
16	19/29	0.052	1.321	0.057	1.448	0.115	2.921	0.125	3.175	16.5
14	19/27	0.065	1.651	0.072	1.829	0.133	3.378	0.143	3.632	23.0
12	37/28	0.084	2.134	0.089	2.261	0.152	3.861	0.162	4.115	32.1
10	37/16	0.406	10.312	0.112	2.845	0.174	4.420	0.188	4.775	47
8	133/29	0.158	4.013	0.169	4.293	0.241	6.121	0.255	6.477	82
6	133/27	0.198	5.029	0.213	5.410	0.283	7.188	0.303	7.696	122
4	133/25	0.250	6.350	0.268	6.807	0.400	10.160	0.43	10.922	180
2	665/30	0.320	8.128	0.340	8.636	0.405	10.287	0.435	11.049	275
1	817/30	0.360	9.144	0.380	9.652	0.455	11.557	0.485	12.319	348
1/0	1045/30	0.395	10.033	0.425	10.795	0.495	12.573	0.535	13.589	429
2/0	1330/30	0.440	11.176	0.475	12.065	0.555	14.097	0.595	15.113	542
3/0	1665/30	0.500	12.70	0.540	13.716	0.620	15.748	0.660	16.764	668
4/0	2109/30	0.565	14.351	0.605	15.367	0.69	17.526	0.730	18.542	835