



Caledonian Military Cables

MIL-W-25038/1

Application and Description:

These Composite Inorganic Dielectric insulated single-core MIL-W-25038/1 cables are used for critical circuit applications where wires must operate in extremely harsh environments, under vibration, and with direct flame exposure. This heavy-duty, non-asbestos construction offers excellent mechanical performance and abrasion resistance.

Construction:

Conductor: Stranded 27% nickel coated copper conductor

Insulation: Composite Inorganic Dielectric Insulation

Jacket: Polytetrafluoroethylene (PTFE) coated fiberglass braid jacket

Identification: Surface printed per MIL-W-25038

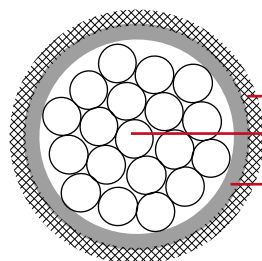
Characteristics:

Temperature Range:

-55°C +260°C

Voltage Rating: 600 volts

Color coded: MIL-STD-104



PTFE coated fiberglass braid jacket

Nickel coated copper

Composite Inorganic Dielectric insulation

Dimensions and Weight:

AWG Size	Conductor Stranding	Conductor Diam.		Max. O.D.		Min. O.D.		Max. Resistance @ 20°C OHMS/ MFT	Approx LBS/MFT
		in	mm	in	mm	in	mm		
22	19/34	0.031	0.790	0.116	2.946	0.100	2.540	23.700	10.0
20	19/32	0.040	1.020	0.125	3.175	0.109	2.769	14.600	12.0
18	19/30	0.050	1.270	0.135	3.429	0.119	3.023	9.400	15.0
16	19/29	0.056	1.420	0.147	3.734	0.127	3.226	6.850	19.0
14	19/27	0.072	1.830	0.170	4.318	0.150	3.810	4.320	25.0
12	19/25	0.090	2.290	0.185	4.699	0.165	4.191	2.780	35.0
10	49/27	0.122	3.099	0.230	5.842	0.210	5.334	1.680	55.0
8	133/29	0.190	4.039	0.280	7.112	0.256	6.502	0.936	85.0
6	133/27	0.200	5.080	0.342	8.687	0.318	8.077	0.591	127.0
4	133/25	0.253	6.426	0.407	10.338	0.383	9.728	0.375	192.0
2	665/30	0.315	8.001	0.484	12.294	0.460	11.684	0.241	291.0
1	817/30	0.350	8.890	0.533	13.538	0.497	12.624	0.196	347.0
1/0	1035/30	0.395	10.033	0.573	14.554	0.537	13.640	0.153	415.0
2/0	1330/30	0.446	11.328	0.635	16.129	0.595	15.113	0.120	520.0
3/0	1672/30	0.505	12.827	0.700	17.780	0.660	16.764	0.096	648.0
4/0	2109/30	0.562	14.275	0.770	19.558	0.730	18.542	0.077	793.0