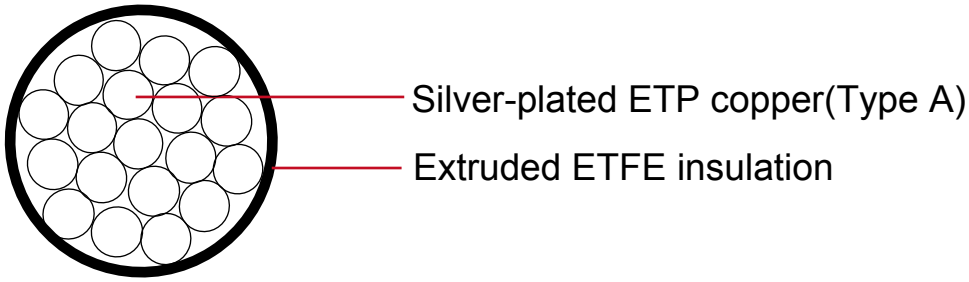
MIL-W-81822/13

Application and Description:

These extruded ETFE (polyvinylidene fluoride) insulated single-core MIL-W-81822/13 cables are used for aerospace and other applications where light weight, tight jacket diameter tolerances and mechanical toughness are required. ETFE insulation also provides exceptional resistance to radiation and chemicals.

Construction:



Conductor:

Type A: Silver-plated ETP copper

Type B: Silver-plated OFHC copper

Type C: Silver-plated High-Strength Copper Alloy

Insulation: Extruded ETFE

Characteristics:

Temperature Range: -55˚C to 150°C

Voltage Rating: 300 volts

SAE AS81822/13

Color code: MIIL-STD-104(See page 65)

Dimensions and Weight:

AWG Size	Conductor Stranding	Conductor Diam.		Insulation Diam. Min.		Insulation Diam. Max.		Max. Resistance @ 20°C OHMS/MFT	Approx LBS/MFT
		in	mm	in	mm	in	mm		
Type A									
20	Solid	0.0320	0.813	0.0440	1.120	0.0480	1.220	10.40	4.1
22	Solid	0.0253	0.643	0.0370	0.940	0.0410	1.040	16.80	2.5
24	Solid	0.0201	0.511	0.0325	0.826	0.0355	0.902	26.50	1.7
24	Solid	0.0201	0.511	0.0285	0.724	0.0315	0.800	26.50	1.7
26	Solid	0.0159	0.404	0.0280	0.711	0.0310	0.787	42.70	1.1
26	Solid	0.0159	0.404	0.0245	0.622	0.0275	0.699	42.70	1.1
28	Solid	0.0126	0.320	0.0250	0.635	0.0280	0.711	68.00	0.8
28	Solid	0.0126	0.320	0.0215	0.546	0.0245	0.622	68.00	0.8
30	Solid	0.0100	0.254	0.0185	0.470	0.0205	0.521	108.0	0.5
Type B									
20	Solid	0.0320	0.813	0.0440	1.120	0.0480	1.220	10.40	3.6
22	Solid	0.0253	0.643	0.0370	0.940	0.0410	1.040	16.80	2.5
24	Solid	0.0201	0.511	0.0325	0.826	0.0355	0.902	26.50	1.7
24	Solid	0.0201	0.511	0.0285	0.724	0.0315	0.800	26.50	1.7
26	Solid	0.0159	0.404	0.0280	0.711	0.0310	0.787	42.70	1.1
26	Solid	0.0159	0.404	0.0245	0.622	0.0275	0.699	42.70	1.1
28	Solid	0.0126	0.320	0.0250	0.635	0.0280	0.711	68.00	0.8
28	Solid	0.0126	0.320	0.0215	0.546	0.0245	0.622	68.00	0.8
30	Solid	0.0100	0.254	0.0185	0.470	0.0205	0.521	108.00	0.5
Type C									
20	Solid	0.0320	0.813	0.0440	1.120	0.0480	1.220	12.20	4.1
22	Solid	0.0253	0.643	0.0370	0.940	0.0410	1.040	19.70	2.5
24	Solid	0.0201	0.511	0.0325	0.826	0.0355	0.902	31.00	1.7
24	Solid	0.0201	0.511	0.0285	0.724	0.0315	0.800	31.00	1.6
26	Solid	0.0159	0.404	0.0280	0.711	0.0310	0.787	50.40	1.1
26	Solid	0.0159	0.404	0.0245	0.622	0.0275	0.699	50.40	1.1
28	Solid	0.0126	0.320	0.0250	0.635	0.0280	0.711	76.40	0.8
28	Solid	0.0126	0.320	0.0215	0.546	0.0245	0.622	79.40	0.8
30	Solid	0.0100	0.254	0.0185	0.470	0.0205	0.521	126.00	0.5