



# Caledonian Military Cables

## M81381/12

### Application and Description:

These FEP/polyimide/FEP tape insulated single-core M81381/12 cables are used in aerospace applications and other challenging applications. It is well-suited to applications concerned with smoke emission and overload stability.

### Construction:

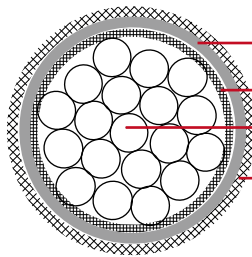
**Conductor:** Stranded nickel-plated copper conductor

**Insulation:** FEP/polyimide/FEP tape insulation

**Insulation Wall Thickness:** 0.0065" (10 AWG and smaller) ,or polyamide braid(8 AWG and larger) (0.0084" or 0.0154" )

### Jacket:

Modified aromatic polyimide coating



FEP/polyimide/FEP tape

Stranded nickel-plated copper

Modified aromatic polyimide coating

### Characteristics:

**Temperature Range:** -55°C + 200°C

**Voltage Rating:** 600 volts

**Color Code:** MIL-STD-104 (See page 42 )

10 basic colors(BLK,BRN,RED,ORN,YEL,GRN,BLU,VIO,GRY,WHT)

### Dimensions and Weight:

AWG Size	Conductor Stranding	Conductor Diam. Max.		Conductor Diam. Min.		Max. O. D.		Min. O. D.		Maximum Resistance (Ohm/1000' @ 20°C)	Approx LBS/MFT
		in	mm	in	mm	in	mm	in	mm		
24	19/36	0.024	0.610	0.023	0.580	0.045	1.143	0.040	1.016	25.90	1.9
22	19/34	0.031	0.790	0.029	0.740	0.050	1.270	0.045	1.143	16.00	2.8
20	19/32	0.039	0.990	0.037	0.940	0.058	1.473	0.053	1.346	9.77	4.2
18	19/30	0.049	1.240	0.046	1.170	0.068	1.727	0.063	1.600	6.10	6.5
16	19/29	0.055	1.400	0.052	1.320	0.074	1.880	0.068	1.727	4.76	8.1
14	19/27	0.059	1.750	0.065	1.650	0.087	2.210	0.081	2.057	3.00	12.0
12	37/28	0.089	2.260	0.084	2.130	0.107	2.718	0.100	2.540	1.98	19.0
10	37/26	0.112	2.840	0.106	2.690	0.129	3.277	0.122	3.099	1.24	29.0
8	133/29	0.169	4.290	0.158	4.010	0.206	5.232	0.188	4.775	0.70	61.8
6	133/27	0.212	5.380	0.198	5.030	0.251	6.375	0.228	5.791	0.44	95.1
4	133/25	0.268	6.810	0.250	6.350	0.306	7.772	0.280	7.112	0.28	148.0
2	665/30	0.340	8.640	0.320	8.130	0.378	9.601	0.350	8.890	0.18	235.0