



# Caledonian Military Cables

## M81381/11

### Application and Description:

These FEP/polyimide/FEP tape insulated single-core M81381/11 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 silver-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 0.0170" )

### Jacket:

modified aromatic polyimide coating

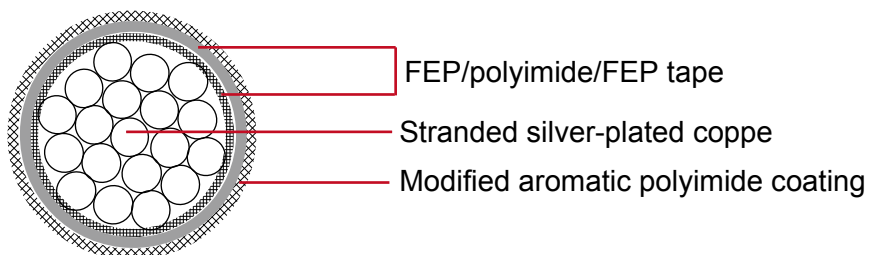
### Characteristics:

**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 | 0.044     | 1.118 | 0.040     | 1.016 | 24.30                                 | 1.9            |
| 22       | 19/34               | 0.030                | 0.760 | 0.029                | 0.740 | 0.049     | 1.245 | 0.045     | 1.143 | 15.10                                 | 2.8            |
| 20       | 19/32               | 0.038                | 0.970 | 0.037                | 0.940 | 0.057     | 1.448 | 0.053     | 1.346 | 9.19                                  | 4.2            |
| 18       | 19/30               | 0.048                | 1.220 | 0.046                | 1.170 | 0.067     | 1.702 | 0.063     | 1.600 | 5.79                                  | 6.5            |
| 16       | 19/29               | 0.054                | 1.370 | 0.052                | 1.320 | 0.073     | 1.854 | 0.068     | 1.727 | 4.52                                  | 8.1            |
| 14       | 19/27               | 0.068                | 1.730 | 0.065                | 1.650 | 0.086     | 2.184 | 0.081     | 2.057 | 2.88                                  | 12.0           |
| 12       | 37/28               | 0.087                | 2.210 | 0.084                | 2.130 | 0.105     | 2.667 | 0.100     | 2.540 | 1.90                                  | 19.0           |
| 10       | 37/26               | 0.110                | 2.790 | 0.106                | 2.690 | 0.127     | 3.226 | 0.122     | 3.099 | 1.19                                  | 29.0           |
| 8        | 133/29              | 0.166                | 4.220 | 0.158                | 4.010 | 0.206     | 5.232 | 0.188     | 4.775 | 0.66                                  | 61.8           |
| 6        | 133/27              | 0.208                | 5.280 | 0.198                | 5.030 | 0.251     | 6.375 | 0.228     | 5.791 | 0.42                                  | 95.1           |
| 4        | 133/25              | 0.263                | 6.680 | 0.250                | 6.350 | 0.306     | 7.772 | 0.280     | 7.112 | 0.27                                  | 148            |
| 2        | 665/30              | 0.340                | 8.640 | 0.320                | 8.130 | 0.378     | 9.601 | 0.350     | 8.890 | 0.17                                  | 235            |