



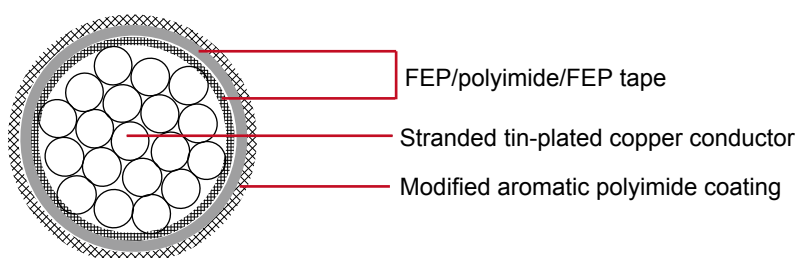
# Caledonian Military Cables

## M81381/21

### Application and Description:

These FEP/polyimide/FEP tape insulated single-core M81381/21 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 tin-plated copper conductor

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

**Insulation Wall Thickness:** 0.0065"

**Jacket:** modified aromatic polyimide coating

### Characteristics:

**Temperature Range:** -55°C + 150°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    |                                       |                |
| 26       | 19/38               | 0.021                | 0.530 | 0.018                | 0.460 | 0.034     | 0.864 | 0.030     | 0.762 | 41.30                                 | 1.2            |
| 24       | 19/36               | 0.026                | 0.660 | 0.023                | 0.580 | 0.038     | 0.965 | 0.034     | 0.864 | 26.20                                 | 1.9            |
| 22       | 19/34               | 0.033                | 0.840 | 0.029                | 0.740 | 0.045     | 1.143 | 0.041     | 1.041 | 16.20                                 | 2.9            |
| 20       | 19/32               | 0.041                | 1.040 | 0.037                | 0.940 | 0.053     | 1.346 | 0.048     | 1.219 | 9.88                                  | 4.2            |
| 18       | 19/30               | 0.051                | 1.300 | 0.046                | 1.170 | 0.063     | 1.600 | 0.058     | 1.473 | 6.23                                  | 6.4            |
| 16       | 19/29               | 0.058                | 1.470 | 0.052                | 1.320 | 0.069     | 1.753 | 0.064     | 1.626 | 4.81                                  | 8.2            |
| 14       | 19/27               | 0.073                | 1.850 | 0.065                | 1.650 | 0.083     | 2.108 | 0.077     | 1.956 | 3.06                                  | 12.5           |
| 12       | 37/28               | 0.090                | 2.290 | 0.084                | 2.130 | 0.102     | 2.591 | 0.097     | 2.464 | 2.02                                  | 20.4           |
| 10       | 37/26               | 0.114                | 2.900 | 0.106                | 2.690 | 0.125     | 3.175 | 0.120     | 3.048 | 1.26                                  | 32.0           |