



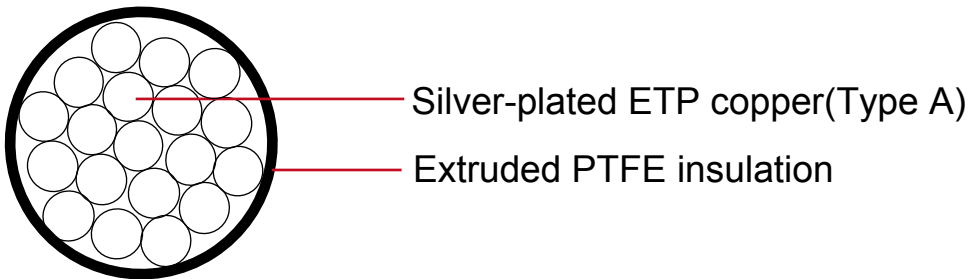
# Caledonian Military Cables

## MIL-W-81822/4

### Application and Description:

These extruded thin wall PTFE (polyvinylidene fluoride) insulated single-core MIL-W-81822/4 cables are used in back panel wire wrap applications. These wires have increased cut-through and abrasion resistance. Solid conductors can be used in wire-wrap applications like back panel wiring.

### Construction:



Silver-plated ETP copper (Type A)

Extruded PTFE insulation

### Conductor:

Type A: Silver-plated ETP copper

Type B: Silver-plated OFHC copper

Type C: Silver-plated High-Strength Copper Alloy

**Insulation:** Extruded PTFE/Polyimide

### Characteristics:

**Temperature Range:** 200°C

**Voltage Rating:** 300 volts

**MIL-W-81822/4 Wire Wrap – PTFE/Polyimide**

**SAE AS81822/4**

**Color Code:** MIL-STD-104 (See page 65)



# Caledonian Military Cables

## 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 | 0.044                 | 1.120 | 0.048                 | 1.220 | 10.40                           | 4.2            |
| 22       | Solid               | 0.0253          | 0.643 | 0.037                 | 0.940 | 0.041                 | 1.040 | 16.80                           | 2.8            |
| 24       | Solid               | 0.0201          | 0.511 | 0.0325                | 0.826 | 0.0355                | 0.902 | 26.50                           | 1.9            |
| 26       | Solid               | 0.0159          | 0.404 | 0.028                 | 0.711 | 0.031                 | 0.787 | 42.70                           | 1.3            |
| 28       | Solid               | 0.0126          | 0.320 | 0.025                 | 0.635 | 0.028                 | 0.711 | 68.00                           | 1.0            |
| 30       | Solid               | 0.0100          | 0.254 | 0.0185                | 0.47  | 0.0205                | 0.521 | 108.00                          | 0.6            |
| Type B   |                     |                 |       |                       |       |                       |       |                                 |                |
| 20       | Solid               | 0.032           | 0.813 | 0.0440                | 1.120 | 0.0480                | 1.220 | 10.40                           | 4.2            |
| 22       | Solid               | 0.0253          | 0.643 | 0.0370                | 0.940 | 0.0410                | 1.040 | 16.80                           | 2.8            |
| 24       | Solid               | 0.0201          | 0.511 | 0.0325                | 0.826 | 0.0355                | 0.902 | 26.50                           | 1.9            |
| 26       | Solid               | 0.0159          | 0.404 | 0.0280                | 0.711 | 0.0310                | 0.787 | 42.70                           | 1.3            |
| 28       | Solid               | 0.0126          | 0.320 | 0.0250                | 0.635 | 0.0280                | 0.711 | 68.00                           | 1.0            |
| 30       | Solid               | 0.0100          | 0.254 | 0.0185                | 0.470 | 0.0205                | 0.521 | 108.00                          | 0.6            |
| Type C   |                     |                 |       |                       |       |                       |       |                                 |                |
| 20       | Solid               | 0.0320          | 0.813 | 0.0440                | 1.120 | 0.0480                | 1.220 | 12.20                           | 4.2            |
| 22       | Solid               | 0.0253          | 0.643 | 0.0370                | 0.940 | 0.0410                | 1.040 | 19.70                           | 2.8            |
| 24       | Solid               | 0.0201          | 0.511 | 0.0325                | 0.826 | 0.0355                | 0.902 | 31.00                           | 1.9            |
| 26       | Solid               | 0.0159          | 0.404 | 0.0280                | 0.711 | 0.0310                | 0.787 | 50.40                           | 1.3            |
| 28       | Solid               | 0.0126          | 0.320 | 0.0250                | 0.635 | 0.0280                | 0.711 | 79.40                           | 1.0            |
| 30       | Solid               | 0.0100          | 0.254 | 0.0185                | 0.470 | 0.0205                | 0.521 | 126.00                          | 0.6            |