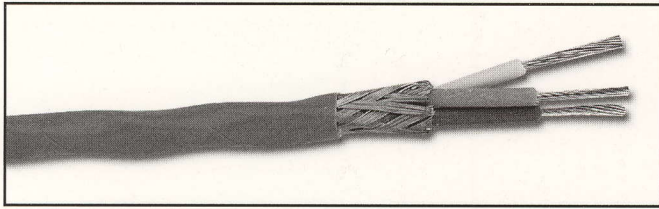


Type E Cables—MIL-W-16878/4 components



Construction Details

Component wire conductor:

Silver- or nickel-plated copper.

Component wire insulation: Extruded PTFE.

Shield: Silver-plated copper braid, 85% coverage.

Jacket: Extruded FEP or PTFE tape.

Colors: Component wires color coded to MIL-STD-104;
Jacket colors: White preferred; also available in
10 basic colors (see page 26).

Type E cables are shielded and jacketed cables with extruded FEP or PTFE tape jackets, incorporating MIL-W-16878/4 wires. These component wires are insulated with extruded PTFE, and have either silver-plated copper or nickel-plated copper conductors.

Cables with PTFE jackets are available with our unique **Seamless Wrap** PTFE tape (see page 2 for details).

Performance:

Voltage rating: 600V.

Temperature ratings:

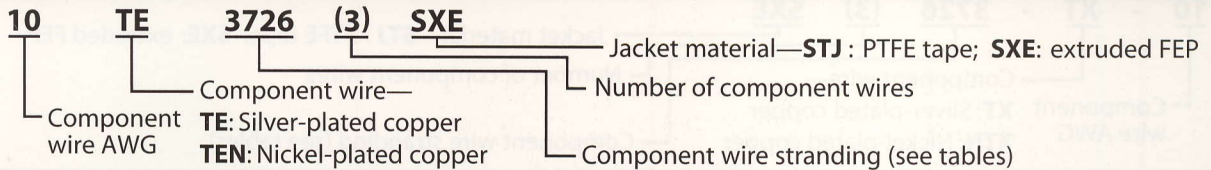
Silver-plated conductors and either jacket: -55 to 200° C.

Nickel-plated conductors and PTFE jacket: -55 to 260° C.

Nickel-plated conductors and and FEP jacket: -55 to 200° C.

See page 27 for component wire dimensions.

Part Numbers:



Dimensions and Weight—1 Conductor Cables

| Component Wire AWG | Shield Stranding | Shield Diameter | Jacket Diameter | Weight |
|-----------------------|---------------------|--------------------|--------------------|-------------|
| | | | | |
| 12 | 19/25 | .125 (3.18) | .147 (3.73) | 34.9 (51.9) |
| 14 | 19/27 | .115 (2.92) | .137 (3.48) | 25.2 (37.5) |
| 16 | 19/29 | .100 (2.54) | .122 (3.10) | 18.0 (26.8) |
| 18 | 19/30 | .090 (2.29) | .110 (2.79) | 15.7 (23.4) |
| 20 | 19/32 | .080 (2.03) | .100 (2.54) | 11.8 (17.6) |
| 22 | 19/34 | .072 (1.83) | .092 (2.34) | 9.69 (14.4) |
| 24 | 19/36 | .066 (1.68) | .086 (2.18) | 8.55 (12.7) |
| 26 | 19/38 | .056 (1.42) | .076 (1.93) | 6.30 (9.37) |
| 28 | 7/36 | .052 (1.32) | .072 (1.83) | 5.14 (7.65) |
| 30 | 7/38 | .049 (1.24) | .069 (1.75) | 4.78 (7.11) |
| 32 | 7/40 | .047 (1.19) | .067 (1.70) | 4.49 (6.68) |

Dimensions and Weight—2 Conductor Cables

| Component Wire AWG | Shield Stranding | Shield Diameter | Jacket Diameter | Weight |
|-----------------------|---------------------|--------------------|--------------------|-------------|
| | | | | |
| 12 | 19/25 | .227 (5.77) | .251 (6.38) | 66.5 (99.0) |
| 14 | 19/27 | .207 (5.26) | .231 (5.87) | 46.5 (69.2) |
| 16 | 19/29 | .177 (4.50) | .199 (5.05) | 33.4 (49.7) |
| 18 | 19/30 | .157 (3.99) | .179 (4.55) | 27.8 (41.4) |
| 20 | 19/32 | .137 (3.48) | .159 (3.04) | 21.3 (31.7) |
| 22 | 19/34 | .121 (3.07) | .143 (3.63) | 16.5 (24.6) |
| 24 | 19/36 | .109 (2.77) | .131 (3.33) | 13.8 (20.5) |
| 26 | 19/38 | .099 (2.51) | .121 (3.07) | 11.7 (17.4) |
| 28 | 7/36 | .091 (2.31) | .113 (2.87) | 9.56 (14.2) |
| 30 | 7/38 | .085 (2.16) | .107 (2.72) | 8.73 (13.0) |
| 32 | 7/40 | .081 (2.06) | .103 (2.62) | 6.71 (10.0) |

Dimensions and Weight—3 Conductor Cables

| Component Wire AWG | Shield Stranding | Shield Diameter | Jacket Diameter | Weight |
|-----------------------|---------------------|--------------------|--------------------|-------------|
| | | | | |
| 12 | 19/25 | .247 (6.28) | .273 (6.94) | 94.0 (140) |
| 14 | 19/27 | .221 (5.61) | .245 (6.22) | 64.3 (95.7) |
| 16 | 19/29 | .189 (4.79) | .213 (5.40) | 46.1 (68.6) |
| 18 | 19/30 | .167 (4.24) | .189 (4.80) | 37.7 (56.1) |
| 20 | 19/32 | .146 (3.70) | .168 (4.26) | 28.2 (42.0) |
| 22 | 19/34 | .128 (3.26) | .150 (3.82) | 21.6 (32.1) |
| 24 | 19/36 | .115 (2.93) | .137 (3.49) | 17.3 (25.7) |
| 26 | 19/38 | .105 (2.66) | .127 (3.22) | 14.8 (22.0) |
| 28 | 7/36 | .096 (2.44) | .118 (3.00) | 11.8 (17.6) |
| 30 | 7/38 | .090 (2.28) | .112 (2.84) | 10.5 (15.6) |
| 32 | 7/40 | .085 (2.17) | .107 (2.73) | 9.36 (13.9) |

Dimensions and Weight—4 Conductor Cables

| Component Wire AWG | Shield Stranding | Shield Diameter | Jacket Diameter | Weight |
|-----------------------|---------------------|--------------------|--------------------|-------------|
| | | | | |
| 12 | 19/25 | .274 (6.96) | .302 (7.67) | 122 (182) |
| 14 | 19/27 | .250 (6.34) | .276 (7.00) | 82.7 (123) |
| 16 | 19/29 | .209 (5.30) | .235 (5.96) | 58.1 (86.5) |
| 18 | 19/30 | .184 (4.69) | .206 (5.24) | 47.3 (70.4) |
| 20 | 19/32 | .160 (4.07) | .182 (4.63) | 35.0 (52.1) |
| 22 | 19/34 | .141 (3.58) | .163 (4.14) | 26.3 (39.1) |
| 24 | 19/36 | .127 (3.22) | .149 (3.78) | 21.2 (31.5) |
| 26 | 19/38 | .115 (2.91) | .137 (3.47) | 17.8 (26.5) |
| 28 | 7/36 | .105 (2.67) | .127 (3.22) | 14.1 (21.0) |
| 30 | 7/38 | .098 (2.48) | .120 (3.04) | 12.6 (18.7) |
| 32 | 7/40 | .093 (2.36) | .115 (2.92) | 11.5 (17.1) |

Dimensions in inches (mm). Weights in pounds/1000 feet (Kg/1000 M). • All values nominal unless otherwise indicated. • Dimensions calculated using a circumscribed circle.