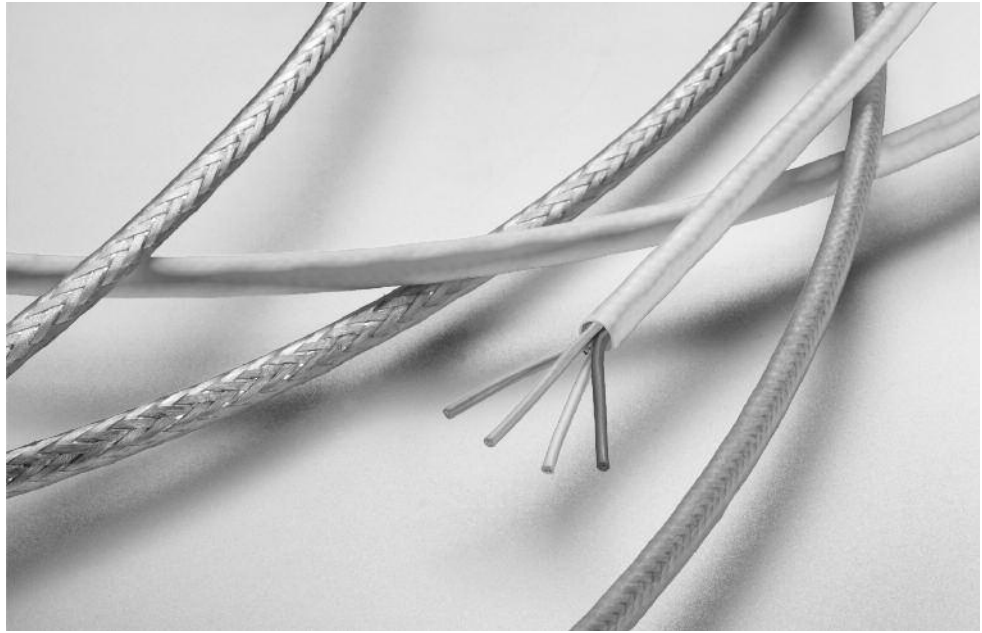


QUADLITE Quadraxial Cables

Product Facts

- 100 Ohm and 150 Ohm cables
- Materials rated from -65°C to +200°C [-85°F to +392°F]
- Low outgassing materials (PTFE, FEP)
- Custom design capabilities
- Proven technologies and materials
- Lightweight
- Low smoke and low toxicity
- Available in 150°C and 200°C rated construction



TE Quadlite family of lightweight, fluoropolymer cables are for use in high speed, high bandwidth applications such as 100Base-T, Gigabit Ethernet, IEEE 1394 and Fiber Channel employed in commercial avionics systems, aircraft data networks, in-flight entertainment systems and military communications.

The Quadlite cables are designed to meet the flammability requirements of FAR Part 25 and the rigorous smoke and toxicity requirements found in commercial aerospace standards such as EN3475.

Quadlite cables are to be used with the Quadrax contacts and connectors.

Applications

Cables are used in communications, control and instrumentation for:

- In-Flight Entertainment
- Satellite TV
- Flight Subsystems
- Military Communications

Materials

Dielectrics — Foamed FEP

Jacket — FEP

Standards and Specifications

TE Specification 1200

ANSI/TIA-568-B.2

IEEE 1394

ARINC 664

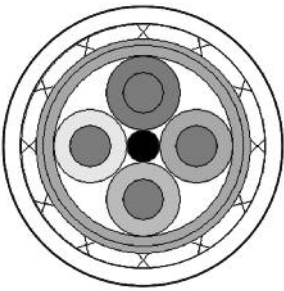
| Available in: | Americas | Europe | Asia Pacific |
|---------------|----------|--------|--------------|
| | ■ | ■ | ■ |

QUADLITE Quad coaxial Cables (Continued)

100 Base T Ethernet Cables
100 Ohms - 150°C

| TE Part Number | CEC-RWC-18634 | | CEC-RWC-18664 | | CEC-RWC-18666 | |
|----------------------------------|------------------------------|--|------------------------------|--|------------------------------|--|
| Conductor AWG Size (19 Strand) | 26 | | 24 | | 22 | |
| Conductor Material: | SCCA | | SCCA | | SCC | |
| Nom. Conductor Diameter (in.): | 0.0185 | | 0.0235 | | 0.0295 | |
| Insulation Material: | Formed FEP | | Formed FEP | | Formed FEP | |
| Nom. Insulation OD± 0.002 (in.): | 0.037 | | 0.042 | | 0.057 | |
| Nom. Cable OD (in.): | 0.145 | | 0.154 | | 0.195 | |
| Nom. Cable Weight (lbs/1 kft): | 17.7 | | 20.3 | | 32.0 | |
| Shield Material: | TCC | | TCC | | TCC | |
| Jacket Material: | FEP | | FEP | | FEP | |
| Impedance ± 10% (Ω): | 100 | | 100 | | 100 | |
| Temp. Rating: | 150°C | | 150°C | | 150°C | |
| Nom. Capacitance (pF/ft): | 13.5 | | 13.0 | | 12.9 | |
| Nom. Attenuation (dB/100 m): | | | | | | |
| 1 MHz | 4.0 | | 2.2 | | 1.6 | |
| 10 MHz | 10.5 | | 6.8 | | 5.9 | |
| 100 MHz | 36.0 | | 24.8 | | 21.0 | |
| | | | | | | |
| | | | | | | |
| Min. NEXT (dB) | <u>10 MHz</u> <u>100 MHz</u> | | <u>10 MHz</u> <u>100 MHz</u> | | <u>10 MHz</u> <u>100 MHz</u> | |
| Min. SRL (dB) | 50 35 | | 50 35 | | 50 35 | |
| | 23 16 | | 23 16 | | 23 16 | |

| TE Part Number | CEC-RWC-20555 | | CEC-RWC-20333 | |
|----------------------------------|------------------------------|--|------------------------------|--|
| Conductor AWG Size (19 Strand) | 26 | | 24 | |
| Conductor Material: | SCCA | | SCCA | |
| Nom. Conductor Diameter (in.): | 0.0185 | | 0.0235 | |
| Insulation Material: | Formed FEP | | Formed FEP | |
| Nom. Insulation OD± 0.002 (in.): | 0.037 | | 0.042 | |
| Nom. Cable OD (in.): | 0.144 | | 0.153 | |
| Nom. Cable Weight (lbs/1 kft): | 18.7 | | 22.2 | |
| Shield Material: | TCC | | TCC | |
| Jacket Material: | FEP | | FEP | |
| Impedance ± 10% (Ω): | 100 | | 100 | |
| Temp. Rating: | 150°C | | 150°C | |
| Nom. Capacitance (pF/ft): | 13.5 | | 13.0 | |
| Nom. Attenuation (dB/100 m): | | | | |
| 1 MHz | 4.0 | | 2.2 | |
| 10 MHz | 10.5 | | 6.8 | |
| 100 MHz | 36.0 | | 24.8 | |
| | | | | |
| | | | | |
| | | | | |
| Min. NEXT (dB) | <u>10 MHz</u> <u>100 MHz</u> | | <u>10 MHz</u> <u>100 MHz</u> | |
| Min. SRL (dB) | 50 35 | | 50 35 | |
| | 23 16 | | 23 16 | |



100BASE-T Ethernet

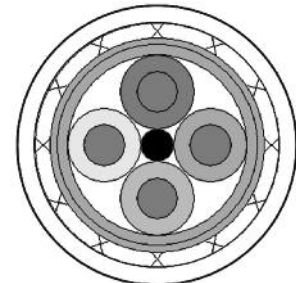
QUADLITE Quadraxial Cables (Continued)

Fiber Channel Cables
150 Ohms - 150°C

| TE Part Number | CEC-RWC-18680 | CEC-RWC-18681 | CEC-RWC-18682 |
|----------------------------------|---------------|---------------|---------------|
| Conductor AWG Size (19 Strand) | 26 | 24 | 22 |
| Conductor Material: | SCCA | SCCA | SCC |
| Nom. Conductor Diameter (in.): | 0.0185 | 0.0235 | 0.0295 |
| Insulation Material: | Formed FEP | Formed FEP | Formed FEP |
| Nom. Insulation OD± 0.002 (in.): | 0.058 | 0.077 | 0.094 |
| Nom. Cable OD (in.): | 0.193 | 0.224 | 0.281 |
| Nom. Cable Weight (lbs/1 kft): | 23.4 | 38.3 | 57.2 |
| Shield Material: | TCC | TCC | TCC |
| Jacket Material: | FEP | FEP | FEP |
| Impedance ± 10% (Ω): | 150 | 150 | 150 |
| Temp. Rating: | 150°C | 150°C | 150°C |
| Nom. Capacitance (pF/ft): | 6.0 | 6.0 | 6.0 |
| Nom. Attenuation (dB/100m): | | | |
| 531 MHz | 13 | 11 | 9 |
| 1062 MHz | 21 | 17 | 13 |

150 Ohms - 200°C

| TE Part Number | CEC-RWC-18684 | CEC-RWC-18685 | CEC-RWC-18686 |
|----------------------------------|---------------|---------------|---------------|
| Conductor AWG Size (19 Strand) | 26 | 24 | 22 |
| Conductor Material: | SCCA | SCCA | SCC |
| Nom. Conductor Diameter (in.): | 0.0185 | 0.0235 | 0.0295 |
| Insulation Material: | Formed FEP | Formed FEP | Formed FEP |
| Nom. Insulation OD± 0.002 (in.): | 0.058 | 0.077 | 0.094 |
| Nom. Cable OD (in.): | 0.192 | 0.247 | 0.284 |
| Nom. Cable Weight (lbs/1 kft): | 25.8 | 38.3 | 57.2 |
| Shield Material: | SCC | SCC | SCC |
| Jacket Material: | FEP | FEP | FEP |
| Impedance ± 10% (Ω): | 150 | 150 | 150 |
| Temp. Rating: | 200°C | 200°C | 200°C |
| Nom. Capacitance (pF/ft): | 6.0 | 6.0 | 6.0 |
| Nom. Attenuation (dB/100m): | | | |
| 531 MHz | 13 | 11 | 9 |
| 1062 MHz | 21 | 17 | 13 |



Fiber Channel

