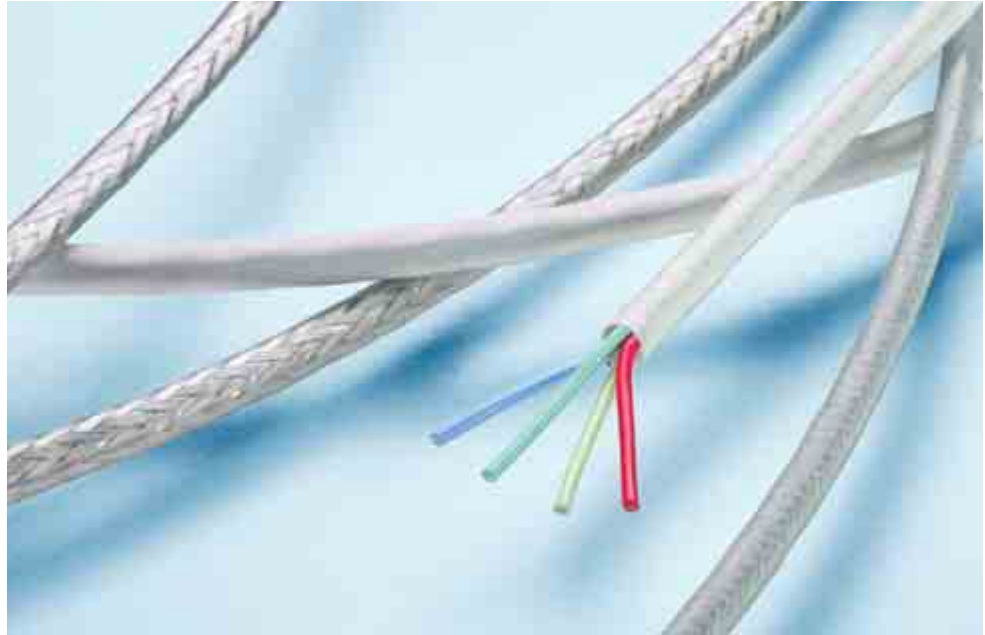


Raychem Quadlite Cables

Product Facts

- Light weight
- Low smoke and low toxicity
- Available in 150°C and 200°C rated construction
- Meet the requirements of FAR Part 25.869 (a)(4) Appendix f, Part (a)(3)
- For use with the Quadrax contacts and connectors



The Quadlite family of light weight, fluoropolymer cables are for use in high speed, high bandwidth applications such as 100 Base 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.

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

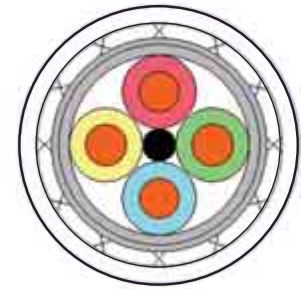
Raychem Spec 1200
 ANSI/TIA-568-B.2
 IEEE 1394
 ARINC 664

Raychem Quadlite Cables (Continued)

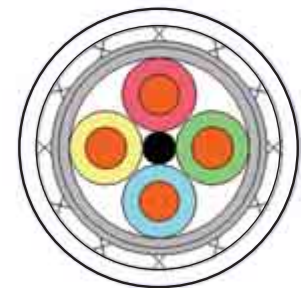
Product Facts

- 100 Ohm and 150 Ohm cables
- Materials rated from -85°F to +392°F [-65°C to +200°C]
- Low outgassing materials (PTFE, FEP)
- Custom design capabilities
- Proven technologies and materials
- App. Example
C130 = 97' length
= 20-30 meters

	100 Ohms - 200°C	100 Ohms - 150°C
Raychem Part Number	CEC-RWC-18687	CEC-RWC-18664
Conductor AWG Size (19 Strand)	24	24
Conductor Material:	SCCA	SCCA
Nom. Conductor Diameter (in.):	0.0235	0.0235
Insulation Material:	FEP	FEP
Nom. Insulation OD± 0.002 (in.):	0.042	0.042
Nom. Cable OD (in.):	0.166	0.167
Nom. Cable Weight (lbs/1 kft):	24.7	22.9
Shield Material:	Flat SCC/Round SCC	Alum. MYLAR/Round TCC
Jacket Material:	FEP	FEP
Impedance ± 10% (Ω):	100 Ohms	100 Ohms
Temp. Rating:	200°C	150°C
Nom. Capacitance (pF/ft):	13.0	13.0
Nom./Max. Attenuation (dB/100 Ft).	<u>10 MHz</u> <u>100 MHz</u> 2.3/2.7 8.0/9.2	<u>10 MHz</u> <u>100 MHz</u> 2.3/2.7 8.0/9.2
Min. NEXT (dB)	47 32	47 32
Min. SR (dB)	23 16	23 16


100 BASE-T Ethernet

	150 Ohms - 200°C	150 Ohms - 150°C
Raychem Part Number	CEC-RWC-18684	CEC-RWC-18680
Conductor AWG Size (19 Strand)	26	26
Conductor Material:	SCCA	SCCA
Nom. Conductor Diameter (in.):	0.0235	0.0235
Insulation Material:	FEP	FEP
Nom. Insulation OD± 0.005 (in.):	0.058	0.058
Nom. Cable OD (in.):	0.200	0.201
Nom. Cable Weight (lbs/1 kft):	30.6	30.9
Shield Material:	Flat SCC/Round SCC	Alum. MYLAR/Round SCC
Jacket Material:	FEP	FEP
Impedance ± 10% (Ω):	150 Ohms	150 Ohms
Temp. Rating:	200°C	150°C
Nom. Capacitance (pF/ft):	9.0	9.0
Nom./Max. Attenuation (dB/100 Ft).		
531 MHz	13	13
1062 MHz	21	21
Nom. Delay Skew (ps/ft)	3	3


Fiber Channel

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