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Cheminax Twin Axial Cable

Small, lightweight twin axial cables

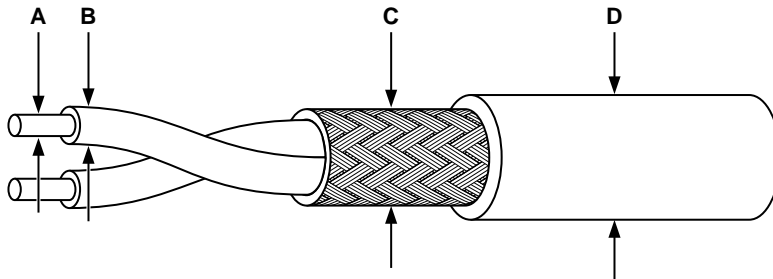
Applications

These small, lightweight cables are specially designed for use in MIL-STD-1553 data bus applications. Raychem's materials technology allows the design and construction of cables that meet rigorous electrical and environmental performance requirements while minimizing size and weight.

Cheminax twin axial cables provide elegant solutions to an increasing range of data bus and multiplex signal transmission applications.

Features/Benefits

- Light weight, small size.
- Temperature range of -65°C to 200°C .
- Low capacitance.
- High data rates.
- Excellent shop handling.



- A Conductor
- B Dielectric
- C Shield
- D Jacket

Specifications/Approvals



Series	UL	Raychem
Cheminax cables	1837, 3258, 3259, and 3264	1200

Product Dimensions*

Typical product part numbers	Impedance (ohms)	Capacitance pF/m (pF/ft)	A	B	C	D	Weight in kg/km (lb/1000 ft)
			Conductor diameter mm (in)	Dielectric diameter mm (in)	Shield diameter mm (in)	Jacket diameter mm (in)	
5024A1661	50	104.7 (31.9)	.64 (.025)	0.89 (.035)	2.21 (.087)	2.62 (.103)	14.4 (9.7)
5026A1664	50	136.2 (41.5)	.48 (.019)	0.66 (.026)	1.75 (.069)	2.16 (.085)	10.0 (6.7)
7520A1662	75	74.2 (22.6)	1.02 (.040)	2.03 (.080)	4.60 (.181)	5.05 (.199)	42.9 (28.8)
7526J1660	75	88.6 (27.0)	.48 (.019)	0.99 (.039)	2.41 (.095)	2.82 (.111)	14.9 (10.0)
7820D0331	78	67.3 (20.5)	1.02 (.040)	2.11 (.083)	4.75 (.187)	5.72 (.225)	46.9 (31.5)
7824E0422	78	55.1 (16.8)	.64 (.025)	1.19 (.047)	2.82 (.111)	3.33 (.131)	19.6 (13.2)
0022E0311	100	49.2 (15.0)	.79 (.031)	1.98 (.078)	4.39 (.173)	5.16 (.203)	30.5 (20.5)
0024A0024	100	44.3 (13.5)	.64 (.025)	1.30 (.051)	3.02 (.119)	3.63 (.143)	25.1 (16.9)
0026A0024	100	44.0 (13.4)	.48 (.019)	1.14 (.045)	2.72 (.107)	3.23 (.127)	18.7 (12.6)
2524H0524	125	39.4 (12.0)	.64 (.025)	1.83 (.072)	4.09 (.161)	4.50 (.177)	25.3 (17.7)
2526E1114	125	36.1 (11.0)	.48 (.019)	1.40 (.055)	3.33 (.131)	3.73 (.147)	21.7 (14.6)
2530A0314	125	39.4 (12.0)	.30 (.012)	0.86 (.034)	2.16 (.085)	2.67 (.105)	10.6 (7.1)
10595-24	70	91.9 (28.0)	.64 (.025)	1.19 (.047)	2.82 (.111)	3.23 (.127)	17.9 (12.0)
10606-26	75	91.9 (28.0)	.53 (.021)	0.99 (.039)	2.41 (.095)	2.82 (.111)	13.4 (9.0)
10612-24	77	91.9 (28.0)	.64 (.025)	1.22 (.048)	2.90 (.114)	3.30 (.130)	23.7 (15.9)
10613-24	77	91.9 (28.0)	.64 (.025)	1.22 (.048)	3.33 (.131)	3.73 (.147)	39.0 (26.2)
10614-24	77	91.9 (28.0)	.64 (.025)	1.22 (.048)	3.73 (.147)	4.09 (.161)	40.3 (27.1)

* All dimensions are nominal.

Product Characteristics

General	Conductor range	20 AWG to 30 AWG
	Operating temperature range*	-65°C to 200°C
Electrical	Impedance range	50 ohms to 125 ohms
	Capacitance range	30 pF/ft to 10 pF/ft

*Temperature rating varies depending on materials used in specific construction.

Properties (per SCD)

Physical	Typical value of dielectric material				Radiation-crosslinked
	Rayfoam L	Rayfoam H	Rayolin F	FEP (solid)	XL ETFE
Tensile (min.)	6.8 MPa (1000 psi)	9.1 MPa (600 psi)	12.2 MPa (1800 psi)	6.8 MPa (1000 psi)	34 MPa (5000 psi)
Elongation (min.)	50%	50%	200%	150%	50%
Electrical					
Dielectric withstand (min.)	1000 V	1000 V	1000 V	1000 V	1000 V
Velocity of propagation (nom.)	78%	78%	67%	69%	61%
Permittivity (nom.)	1.65	1.65	2.2	2.1	2.7

Physical	Typical value of jacket material					
	Thermorad	SPEC 55	FlexLine	FEP	Zerohal	SPEC 44
Tensile (min.)	13.6 MPa (2000 psi)	34 MPa (5000 psi)	20.4 MPa (3000 psi)	13.6 MPa (2000 psi)	8.2 MPa (1200 psi)	27.2 MPa (4000 psi)
Elongation (min.)	250%	50%	100%	200%	150%	200%
Temperature (max.)	125°C	200°C	200°C	200°C	125°C	150°C
Flammability**	Method C	Method B	Method B	Method B	Method B	Method B
Fluid category**	C	A	A	A	C	B

**See Raychem specification WCD-1200 for details.

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