

Industrial Data Solutions® – Industrial Ethernet Cables

Category 5e DataTuff® Twisted Pair Cables
Heavy Duty Sunlight- and Oil-Resistant Jackets



De-scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Freq. MHz	Max. Atten. dB/100m	Min. PSUM			Input Imp. (Ω)	Min. RL dB
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m		

Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Rip Cord

Polyethylene Insulation • Industrial Grade Sunlight- and Oil-Resistant FRNC/LSNH Jacket (Black and Grey)																					
<p>Rip Cord</p>	BEB1212 IEC 60332-1		1000	305	20.1	9.1	0.51 mm 24 AWG Solid BC	0.037	0.95	Bonded-Pair Unshielded	0.217	5.50	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
			1640	500	33.1	15.0									4	4.1	53.3	49.2	48.7	100 ± 15	23.0
															10	6.3	47.3	41.0	40.8	100 ± 15	25.0
															16	8.0	44.3	36.2	36.7	100 ± 15	25.0
															25	10.1	41.3	31.2	32.8	100 ± 15	25.0
				62.5	16.5	35.4	18.9	24.8	100 ± 15	21.5											
				100	21.3	32.3	11.0	20.8	100 ± 15	20.1											

4-Pair
EtherNet/IP Compliant

Color Code: see chart below
Burning Energy: 400 kJ/m
RJ-45 Compatible, -25°C Cold Bend

Verified to ISO/IEC 11801 (2nd Edition), EN-50173-1, TIA/EIA-568-B.2, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 1 m intervals.

Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Overall Beldfoil® Shield + 40% TC Braid • 26 AWG TC Drain Wire

Polyethylene Insulation • Industrial Grade Sunlight- and Oil-Resistant FRNC/LSNH Jacket (Black, Grey and Blue)																					
<p>4-Pair EtherNet/IP Compliant</p>	BEB3212 IEC 60332-1	Heavy Shielded	1000	305	30.9	14.0	0.51 mm 24 AWG Solid BC	0.041	1.05	Bonded-Pair Overall Beldfoil® + Overall 40% TC Braid + Drain Wire (26 AWG TC)	0.262	6.65	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
			1640	500	50.7	23.0									4	4.1	53.3	49.2	48.7	100 ± 15	23.0
															10	6.5	47.3	40.8	40.8	100 ± 15	25.0
															16	8.2	44.3	36.1	36.7	100 ± 15	25.0
															31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
				62.5	17.0	35.4	18.4	24.8	100 ± 15	21.5											
				100	22.0	32.3	10.3	20.8	100 ± 15	20.1											
				200	32.4	27.8	1.0	14.7	100 ± 15	15.0											

4-Pair
EtherNet/IP Compliant

Color Code: see chart below
Burning Energy: 575 kJ/m
RJ-45 Compatible, -25°C Cold Bend

Verified to ISO/IEC 11801 (2nd Edition), EN-50173-1, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 1 m intervals.

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Overall Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire

Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket (Black and Blue)																					
<p>4-Pair</p>	7929A NEC: CMR CMX-Outdoor CEC: CMR FT4	Shielded	1000	305	37.0	16.8	0.51 mm 24 AWG Solid BC	0.045	1.14	Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC)	0.265	6.73	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
			2000	610	72.1	32.7									4	4.1	53.3	49.2	48.7	100 ± 15	23.0
															10	6.5	47.3	40.8	40.8	100 ± 15	25.0
															16	8.2	44.3	36.1	36.7	100 ± 15	25.0
															31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
				62.5	17.0	35.4	18.4	24.8	100 ± 15	21.5											
				100	22.0	32.3	10.3	20.8	100 ± 15	20.1											
				200	32.4	27.8	1.0	14.7	100 ± 15	15.0											

4-Pair

Color Code: see chart below
RJ-45 Compatible, -25°C Cold Bend
610 m put-up available in Black only.

Third party verified to TIA/EIA-568-B.2, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Shield is bonded to jacket inner wall for electrical stability. Jacket sequentially marked at 0.6 m intervals.

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm BC • Overall Beldfoil® Shield + 70% TC Braid • 24 AWG Spiral Drain Wire

Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket (Black, Red, Blue and Teal)																					
<p>4-Pair</p>	7921A NEC: CMR CMX-Outdoor CEC: CMR FT4	Heavy Shielded	1000	305	54.9	24.9	0.51 mm 24 AWG Solid BC	0.047	1.19	Bonded-Pair Overall Beldfoil® + Overall 70% TC Braid + Drain Wire (24 AWG TC)	0.330	8.38	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
			2000	610	106.0	48.1									4	4.1	53.3	49.2	48.7	100 ± 15	23.6
															10	6.5	47.3	40.8	40.8	100 ± 15	26.0
															16	8.2	44.3	36.1	36.7	100 ± 15	26.0
															31.25	11.7	39.9	28.2	30.9	100 ± 15	25.0
				62.5	17.0	35.4	18.4	24.8	100 ± 15	23.5											
				100	22.0	32.3	10.3	20.8	100 ± 15	22.5											

4-Pair

Color Code: see chart below
-25°C Cold Bend
610 m put-up available in Black only.

Third party verified to TIA/EIA-568-B.2, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 0.6 m intervals.

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown



For more information, contact Belden Technical Support +31-77-3875-414 • www.belden-emea.com