

**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>	<b>BEB1212</b> IEC 60332-1	1000	305	20.1	9.1	0.51 mm	0.037	0.95	Bonded-Pair	0.217	5.50	1	2.0	62.3	60.3	60.8	100 ± 15	20.0	
		1640	500	33.1	15.0	24 AWG			Unshielded			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)																				
	<b>BEB3212</b> IEC 60332-1	1000	305	30.9	14.0	0.51 mm	0.041	1.05	Bonded-Pair	0.262	6.65								see above	
		1640	500	50.7	23.0	24 AWG			Overall Beldfoil®											
										+ Overall										
										40% TC Braid										
										+ Drain Wire										
										(26 AWG TC)										

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)																				
	<b>7929A</b> NEC: CMR CMX-Outdoor CEC: CMR FT4	1000	305	37.0	16.8	0.51 mm	0.045	1.14	Bonded-Pair	0.265	6.73	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
		2000	610	72.1	32.7	24 AWG			Overall Beldfoil®				4	4.1	53.3	49.2	48.7	100 ± 15	23.0	
										+ Drain Wire				10	6.5	47.3	40.8	40.8	100 ± 15	25.0
										(24 AWG TC)				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)																				
	<b>7921A</b> NEC: CMR CMX-Outdoor CEC: CMR FT4	1000	305	54.9	24.9	0.51 mm	0.047	1.19	Bonded-Pair	0.330	8.38	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
		2000	610	106.0	48.1	24 AWG			Overall Beldfoil®				4	4.1	53.3	49.2	48.7	100 ± 15	23.6	
										+ Overall				10	6.5	47.3	40.8	40.8	100 ± 15	26.0
										70% TC Braid				16	8.2	44.3	36.1	36.7	100 ± 15	26.0
										+ Drain Wire				31.25	11.7	39.9	28.2	30.9	100 ± 15	25.0
										(24 AWG TC)				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

**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		

**Enhanced Cat 5e • 24 AWG • Solid 0.5 mm Bare Copper • Rip Cord**

**Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant PVC Jacket (Black and Blue)**

<p>Rip Cord</p>	<b>7918A</b> NEC: 1000 CMR 2000 CMX-Outdoor CEC: CMR FT4	1000	305	28.0	12.7	0.51 mm	0.037	0.94	Non- Bonded-Pair Unshielded	0.230 5.84	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.4	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40.8 36.1 28.2 18.4 10.3 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0											
		2000	610	52.0	23.6	24 AWG	Solid BC																					
		Cable passes -40°C Cold Bend per UL1581 Installation Temperature: -25°C to +75°C Operating Temperature: -40°C to +75°C* 610 m put-up available in Black only.																										
		RJ-45 Compatible Third party verified to TIA/EIA-568-B.2, Category 5e Jacket sequentially marked at 0.6 m intervals. Color Code: see chart below																										
		4-Pair																										
		EtherNet/IP Compliant																										
		Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket																										

**Enhanced Cat 5e • 24 AWG • 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**

<p>Shielded</p>	<b>7919A</b> NEC: 1000 CMR 2000 CMX-Outdoor CEC: CMR FT4	1000	305	35.1	15.9	0.51 mm	0.042	1.07	Non- Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC)	0.265 6.73	1 4 10 16 31.25 62.5 100	2.0 4.1 6.5 8.2 11.7 17.0 22.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3	60.3 49.2 40.8 36.1 28.2 18.4 10.3	60.8 48.7 40.8 36.7 30.9 24.8 20.8	100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15	20.0 23.0 25.0 25.0 23.6 21.5 20.1											
		2000	610	68.1	30.9	24 AWG	Solid BC																					
		Cable passes -40°C Cold Bend per UL1581 Installation Temperature: -25°C to +75°C Operating Temperature: -40°C to +75°C* 610 m put-up available in Black only.																										
		RJ-45 Compatible Third party verified to TIA/EIA-568-B.2, Category 5e • P-07-KA060004-MSHA** Shield is bonded to jacket inner wall for electrical stability. Jacket sequentially marked at 0.6 m intervals. Color Code: see chart below																										
		4-Pair																										
		EtherNet/IP Compliant																										
		Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Overall Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire																										

**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 PVC Jacket (Black, Red and Teal)**

<p>Shielded</p>	<b>7933A</b> NEC: 1000 CMR FT4 CEC: CMR FT4	1000	305	32.0	14.5	0.51 mm	0.038	0.97	Bonded-Pair Overall Beldfoil® + Drain Wire (24 AWG TC)	0.227 5.77	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.4	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.3 49.2 40.8 36.1 28.2 18.4 10.3 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 15 100 ± 25	20.0 23.6 26.0 26.0 25.0 23.5 22.5 15.0											
		2000	610	64.8	29.4	24 AWG	Solid BC																					
		Cable passes -40°C Cold Bend per UL1581 Installation Temperature: -25°C to +75°C Operating Temperature: -40°C to +75°C* 610 m put-up available in Black only.																										
		M-12 or RJ-45 Compatible 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. Color Code: see chart below																										
		2-Pair																										
		EtherNet/IP Compliant																										
		Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper																										

**Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper**

**Plenum • FEP Insulation • Sunlight-, Oil- and Gas-Resistant Black FEP Jacket**

<p>Compliant High &amp; Low Temp Oil Res I &amp; II Gas Res</p>	<b>7928A</b> NEC: Limited Combustible FHC 25/50 CMP CEC: CMP FT6	1000	305	24.0	10.9	0.51 mm	0.036	0.91	Bonded-Pair Unshielded	0.187 4.57	1 4 10 16 31.25 62.5 100 350	2.0 4.0 6.4 8.1 11.6 16.8 21.7 44.3	65.3 56.3 50.3 47.3 42.9 38.4 35.3 27.2	63.3 52.3 43.9 39.1 31.3 21.6 17.1 -	60.8 48.7 40.8 36.7 30.9 24.8 20.8 9.9	100 ± 12 100 ± 12 100 ± 12 100 ± 12 100 ± 15 100 ± 15 100 ± 15 100 ± 22	20.0 23.6 26.0 26.0 25.0 23.5 22.5 17.0											
		2000	610	24.0	10.9	24 AWG	Solid BC																					
		Cable passes -70°C Cold Bend per UL1581 Installation Temperature: -55°C to +150°C Operating Temperature: -70°C to +150°C*																										
		RJ-45 Compatible • Jacket sequentially marked at 0.6 m intervals. Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126 Color Code: see chart below																										
		4-Pair																										
		EtherNet/IP Compliant																										
		Color Code																										

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 • \* Subject to length de-rating. • \*\* Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

**Color Code**

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



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**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		

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

**Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant PVC Jacket (Black, Red or Teal)**

<p>Rip Cord</p> <p>4-Pair</p>	7923A	NEC:	1000	305	28.0	12.7	0.51 mm	0.038	0.97	Bonded-Pair	0.230	5.84	1	2.0	65.3	68.3	60.8	100 ± 12	20.0	
		CMR	2000	610	54.0	24.5	24 AWG			Unshielded				4	4.0	56.3	52.3	48.7	100 ± 12	23.6
		CMX-Outdoor					Solid BC							8	5.7	51.8	46.1	42.7	100 ± 12	25.4
		CEC:												10	6.4	50.3	43.9	40.8	100 ± 12	26.0
		CMR FT4												16	8.1	47.3	39.1	36.7	100 ± 12	26.0
														25	10.3	44.3	34.1	32.1	100 ± 15	25.5
														31.25	11.6	42.9	31.3	30.9	100 ± 15	25.0
														62.5	16.8	38.4	21.6	24.8	100 ± 15	23.5
														100	21.7	35.3	17.1	20.8	100 ± 15	22.5
														155	27.7	32.5	4.7	16.9	100 ± 18	19.0
												200	32.0	30.8	3.0	14.7	100 ± 20	19.0		
												250	36.4	29.3	-	12.8	100 ± 20	18.0		
												350	44.3	27.2	-	9.9	100 ± 22	17.0		

Cable passes -40°C Cold Bend per UL1581  
 Installation Temperature: -25°C to +75°C  
 Operating Temperature: -40°C to +75°C\*  
 610 m put-up available in Black only.

RJ-45 Compatible  
 Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126  
 P-07-KA060003-MSHA\*\*  
 Jacket sequentially marked at 0.6 m intervals.

EtherNet/IP Compliant

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

**Polyolefin Insulation • PVC Inner Jacket • Industrial Grade PVC Outer Jacket (Black, Grey, Red, Teal or Blue)**

<p>Rip Cord</p> <p>4-Pair</p>	Upjacketed 11700A	NEC:	1000	305	39.0	17.7	0.51 mm	0.038	0.97	Bonded-Pair	0.285	7.24								see above		
		CMR	3000	914	117.3	53.2	24 AWG			Unshielded												
		CMX-Outdoor					Solid BC															
		CEC:																				
		CMR FT4																				

Cable passes -40°C Cold Bend per UL1581  
 Installation Temperature: -25°C to +75°C  
 Operating Temperature: -40°C to +75°C\*  
 914 m put-up available in Black only.

RJ-45 Compatible  
 Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126  
 P-07-KA060005-MSHA\*\*  
 Outer jacket is sunlight- and oil-resistant. Jacket sequentially marked at 0.6 m intervals.

EtherNet/IP Compliant

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

**Polyolefin Insulation • PVC Inner Jacket • Interlocked AL Armor • Industrial Grade PVC Outer Jacket (Black or Grey)**

<p>Rip Cord</p> <p>4-Pair CMG</p>	Interlocked AL Armor 121700A	NEC:	1000	305	158.7	72.0	0.51 mm	0.038	0.97	Bonded-Pair	0.530	13.46								see above		
		CM	3000	914	464.3	210.6	24 AWG			Unshielded												
		CEC:					Solid BC															
		HL																				
		CMG FT4																				

Cable passes -40°C Cold Bend per UL1581  
 Installation Temperature: -25°C to +75°C  
 Operating Temperature: -40°C to +75°C\*  
 914 m put-up available in Black only.

RJ-45 Compatible  
 Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126  
 Verified to TIA/EIA-568-B.2, Category 5e  
 Outer jacket is sunlight- and oil-resistant. Jacket sequentially marked at 1 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  
 \* Subject to length de-rating. • \*\* Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

**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

**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		

**Enhanced Cat 5e • 24 AWG • Bonded-Pair • Stranded (7x32) 0.6 mm Tinned Copper**

**Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant PVC Jacket (Black, Red or Teal)**

<p>4-Pair</p>	Stranded	<b>7924A</b> NEC: 1000 CMR CMX-Outdoor CEC: CMR FT4	1000	305	30.0	13.6	0.61 mm	0.039	0.99	Bonded-Pair	0.242	6.15	1	2.4	65.3	62.9	60.8	100 ± 12	20.0	
	Flexible		2000	610	58.0	26.3	24 AWG (7x32) TC			Unshielded				4	4.8	56.3	51.5	48.7	100 ± 12	23.6
														8	6.8	51.8	45.0	42.7	100 ± 12	25.4
														10	7.7	50.3	42.6	40.8	100 ± 12	26.0
														16	9.7	47.3	37.5	36.7	100 ± 12	26.0
														25	12.4	44.3	31.9	32.8	100 ± 15	25.5
														31.25	13.9	42.9	29.0	30.9	100 ± 15	25.0
														62.5	20.2	38.4	18.3	24.8	100 ± 15	23.5
														100	26.0	35.3	9.2	20.8	100 ± 15	22.5
														155	33.2	32.5	-	16.9	100 ± 18	19.0
														200	38.4	30.8	-	14.7	100 ± 20	19.0
														250	43.7	29.3	-	12.8	100 ± 20	18.0
														350	53.2	27.2	-	9.9	100 ± 22	17.0

Cable passes -40°C Cold Bend per UL1581  
Installation Temperature: -25°C to +75°C  
Operating Temperature: -40°C to +75°C\*  
610 m put-up available in Black only.

RJ-45 Compatible  
Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151; 5,734,126 and 5,763,823  
Jacket sequentially marked at 0.6 m intervals.  
Color Code: see chart below

**Enhanced Cat 5e • 22 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Rip Cord**

**Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket**

<p>Rip Cord</p> <p>4-Pair</p>	PLTC	<b>7922A</b> NEC: 1000 PLTC CMR CMX-Outdoor CEC: CMR FT4	1000	305	46.3	21.0	0.64 mm	0.048	1.22	Bonded-Pair	0.301	7.65	1	2.0	65.3	63.3	60.8	100 ± 12	20.0	
			2000	610	92.6	42.0	22 AWG Solid BC			Unshielded				4	4.0	56.3	52.3	48.7	100 ± 12	23.0
														8	5.7	51.8	46.1	42.7	100 ± 12	24.5
														10	6.4	50.3	43.9	40.8	100 ± 12	25.0
														16	8.1	47.3	39.1	36.7	100 ± 12	25.0
														25	10.3	44.3	34.1	32.8	100 ± 15	24.3
														31.25	11.6	42.9	31.3	30.9	100 ± 15	23.6
														62.5	16.8	38.4	21.6	24.8	100 ± 15	21.5
														100	21.7	35.3	17.1	20.8	100 ± 15	20.1
														155	27.7	32.5	4.7	16.9	100 ± 18	19.0
														200	32.0	30.8	3.0	14.7	100 ± 20	19.0
														250	36.4	29.3	-	12.8	100 ± 20	18.0
														350	44.3	27.2	-	9.9	100 ± 22	17.0

Cable passes -25°C Cold Bend per UL1581  
Installation Temperature: -10°C to +75°C  
Operating Temperature: -25°C to +75°C\*

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.  
Color Code: see chart below

**Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper**

**Plenum • FEP Insulation • Sunlight-, Oil- and Gas-Resistant Black FEP Jacket**

<p>4-Pair</p>	High & Low Temp Oil Res I & II Gas Res	<b>7931A</b> NEC: Limited Combustible FHC 25/50 CMP CEC: CMP FT6	1000	305	35.1	15.9	0.57 mm	0.038	0.97	Bonded-Pair	0.214	5.44	1	2.0	72.3	70.3	64.8	100 ± 15	20.0	
										Unshielded				10	6.0	57.3	51.3	44.8	100 ± 15	25.0
														20	8.5	52.8	44.3	38.7	100 ± 15	25.0
														31.25	10.7	49.9	39.2	34.9	100 ± 15	23.6
														62.5	15.4	45.4	30.0	28.8	100 ± 15	21.5
														100	19.8	42.3	22.5	24.8	100 ± 15	20.1
														200	29.0	37.8	8.8	18.7	100 ± 22	18.0
												250	32.8	36.3	3.5	16.8	100 ± 32	17.3		

Cable passes -70°C Cold Bend per UL1581  
Installation Temperature: -55°C to +150°C  
Operating Temperature: -70°C to +150°C\*

RJ-45 Compatible  
Third party verified to TIA/EIA-568-B.2-1, Category 6 • U.S. Patents 5,606,151 and 5,734,126  
Jacket sequentially marked at 0.6 m intervals.  
Color Code: see chart below

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  
\* Subject to length de-rating.

**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

**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		
<b>Enhanced Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Patented E-Spline Center Member • Rip Cord</b>																			
<b>Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket</b>																			
<p>Rip Cord 4-Pair</p>	7927A	NEC: 1000 CMR 2000 CEC: CMR FT4	305	44.1	20.0	0.57 mm	0.042	1.07	Bonded-Pair Unshielded	0.251	6.38	1	1.9	80.3	78.5	70.8	100 ± 12	20.0	
				610	88.0	39.9	23 AWG Solid BC				x	x	10	5.7	65.3	59.6	50.8	100 ± 12	25.0
											0.339	8.61	31.25	10.2	57.9	47.7	40.9	100 ± 15	25.0
													62.5	14.7	53.4	38.7	34.9	100 ± 15	25.0
													100	18.9	50.3	31.4	30.8	100 ± 15	25.0
													155	23.9	47.5	23.5	27.0	100 ± 15	22.8
													200	27.5	45.8	18.3	24.8	100 ± 15	21.7
													250	31.2	44.3	13.2	22.8	100 ± 20	20.5
													350	37.7	40.2	4.5	19.9	100 ± 22	19.8
													400	40.6	39.3	0.6	18.8	100 ± 22	19.5
													500	46.2	37.8	> 0*	16.8	100 ± 22	18.4
												550	48.8	37.2	-	16.0	100 ± 22	18.0	
												600	51.4	36.6	-	15.2	100 ± 22	17.6	

Cable passes -40°C Cold Bend per UL1581  
Installation Temperature: -25°C to +75°C  
Operating Temperature: -40°C to +75°C\*

RJ-45 Compatible  
Third party verified to TIA/EIA-568-B.2-1, Category 6  
U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1  
Jacket sequentially marked at 0.6 m intervals.

\* PSUM ACR  
> 0 is guaranteed to 460 MHz

**Enhanced Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Rip Cord**

<b>Polyolefin Insulation • PVC Inner Jacket • Industrial Grade PVC Outer Jacket (Black and Grey)</b>																				
<p>Rip Cord 4-Pair Mediatwist™ Construction</p>	Upjacketed 11872A	NEC: 1000 CM CEC: CM FT1	305	66.1	30.0	0.57 mm	0.041	1.04	Bonded-Pair Unshielded	0.475	12.07	1	1.9	72.3	70.0	64.8	100 ± 12	20.0		
						23 AWG Solid BC				x	x	4	3.7	63.3	59.0	52.7	100 ± 12	23.0		
										0.265	6.73	10	5.9	57.3	51.0	44.8	100 ± 12	25.0		
												16	7.5	54.3	46.0	40.7	100 ± 12	25.0		
												Upjacketed O.D.	31.25	10.6	49.9	39.0	34.9	100 ± 15	25.0	
												0.365	9.27	62.5	15.4	45.4	30.0	28.8	100 ± 15	21.5
												x	x	100	19.8	42.3	25.0	24.8	100 ± 15	21.0
												0.165	4.19	155	25.1	39.5	14.0	20.9	100 ± 15	21.0
													200	29.0	37.9	10.0	18.7	100 ± 15	21.0	
													310	37.1	34.9	-	14.9	100 ± 20	18.0	
													350	39.8	34.2	-	13.9	100 ± 22	17.0	
												400*	43.0	33.3	-	12.7	100 ± 32	14.0		
												500*	49.0	31.8	-	10.8	100 ± 32	14.0		

Cable passes -25°C Cold Bend per UL1581  
Installation Temperature: -10°C to +75°C  
Operating Temperature: -25°C to +75°C\*

RJ-45 Compatible  
Verified to TIA/EIA-568-B.2-1, Category 6  
U.S. Patents 5,606,151, 5,734,126 and 5,821,467  
Jacket sequentially marked at 0.6 m intervals.

\* Value provided for information only.

**Enhanced Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Polyester Wrap • Rip Cord**

<b>Polyolefin Insulation • PVC Inner Jacket • Interlocked AL Armor • Industrial Grade PVC Outer Jacket (Black and Grey)</b>																			
<p>Rip Cord 4-Pair Mediatwist™ Construction</p>	Interlocked AL Armor 121872A	NEC: 1000 CMG CEC: HL CMG FT4	305	221.8	100.8	0.57 mm	0.041	1.04	Bonded-Pair Unshielded	0.684	17.37								see above
						23 AWG Solid BC						Upjacketed O.D.	0.365	9.27					
												x	x						
												0.165	4.19						

Cable passes -40°C Cold Bend per UL1581  
Installation Temperature: -25°C to +75°C  
Operating Temperature: -40°C to +75°C\*

RJ-45 Compatible  
Verified to TIA/EIA-568-B.2-1, Category 6  
U.S. Patents 5,606,151, 5,734,126 and 5,821,467  
Jacket sequentially marked at 1 m intervals.

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  
\* Subject to length de-rating.

**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