

# 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>	7918A	NEC:	1000	305	28.0	12.7	0.51 mm	0.037	0.94	Non- Bonded-Pair Unshielded	0.230	5.84	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
		CMR	2000	610	52.0	23.6	24 AWG								4	4.1	53.3	49.2	48.7	100 ± 15	23.0
		CMX-Outdoor					Solid BC								10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CEC:													16	8.2	44.3	36.1	36.7	100 ± 15	25.0
		CMR FT4													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 ± 25	15.0							

4-Pair

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

**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>	7919A	NEC:	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	2.0	62.3	60.3	60.8	100 ± 15	20.0		
		CMR	2000	610	68.1	30.9	24 AWG								4	4.1	53.3	49.2	48.7	100 ± 15	23.0
		CMX-Outdoor					Solid BC								10	6.5	47.3	40.8	40.8	100 ± 15	25.0
		CEC:													16	8.2	44.3	36.1	36.7	100 ± 15	25.0
		CMR FT4													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

4-Pair

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

**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>	7933A	NEC:	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	2.0	62.3	60.3	60.8	100 ± 15	20.0		
		CMR FT4	2000	610	64.8	29.4	24 AWG								4	4.1	53.3	49.2	48.7	100 ± 15	23.6
		CEC:					Solid BC								10	6.5	47.3	40.8	40.8	100 ± 15	26.0
		CMR FT4													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
								200	32.4	27.8	1.0	14.7	100 ± 25	15.0							

2-Pair

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

EtherNet/IP Compliant

**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>	7928A	NEC:	1000	305	24.0	10.9	0.51 mm	0.036	0.91	Bonded-Pair Unshielded	0.187	4.57	1	2.0	65.3	63.3	60.8	100 ± 12	20.0		
		Limited					24 AWG								4	4.0	56.3	52.3	48.7	100 ± 12	23.6
		Combustible					Solid BC								10	6.4	50.3	43.9	40.8	100 ± 12	26.0
		FHC 25/50													16	8.1	47.3	39.1	36.7	100 ± 12	26.0
		CMP													31.25	11.6	42.9	31.3	30.9	100 ± 15	25.0
		CEC:													62.5	16.8	38.4	21.6	24.8	100 ± 15	23.5
		CMP FT6													100	21.7	35.3	17.1	20.8	100 ± 15	22.5
								350	44.3	27.2	-	9.9	100 ± 22	17.0							

4-Pair

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

EtherNet/IP Compliant

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

