

Industrial Data Solutions® — Industrial Ethernet

Category 5e DataTuff® Twisted Pair Cables, 4-Pair Heavy-Duty Sunlight and Oil-Resistant Jackets

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Freq. (MHz)	Max. Atten. (dB/100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/100m)	Min. PSUM ELFEXT (dB/100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm							

Enhanced Cat 5e • 24 AWG Bonded-Pairs Solid BC Conductors • Polyester Wrap • Rip Cord • See Color Code Chart (below)

AL Interlocked Armor • Polyolefin Insulation • PVC Inner Jacket • .045" Industrial Grade PVC Outer Jacket (Black or Gray)																	
	Interlocked AL Armor	121700A	NEC:	4	1000	304.8	159.0	72.0	.530	13.46	1	2.0	65.3	63.3	60.8	100±12	20.0
			CM		3000 †	914.4	459.0	210.6	4	4.0	56.3	52.3	48.7	100±12	23.0		
			CEC:		10	5.7	51.8	46.1	42.7	100±12	24.5						
			HL		16	6.4	50.3	43.9	40.8	100±12	25.0						
			CMG FT4		Nominal	16	8.1	47.3	39.1	36.7	100±12	25.0					
					Core OD:	25	10.3	44.3	34.1	32.8	100±15	24.3					
			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											

†3000 ft. put-up available in Black only. • RJ-45 Compatible • Outer jacket is sunlight- and oil-resistant.

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

Jacket sequentially marked at 1 meter intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126

AL Interlocked Armor • Polyolefin Insulation • PVC Inner Jacket • .045" Industrial Grade PVC Outer Jacket (Black or Blue)																
	Interlocked AL Armor -40°C Cold Impact	121700R	NEC:	4	1000	304.8	159.0	72.0	.530	13.46	(Same as above)					
			CM		3000	914.4	459.0	210.6	4	4.0	56.3	52.3	48.7	100±12	23.0	
			CEC:		10	5.7	51.8	46.1	42.7	100±12	24.5					
			HL		16	6.4	50.3	43.9	40.8	100±12	25.0					
			CMG FT4		Nominal	16	8.1	47.3	39.1	36.7	100±12	25.0				
					Core OD:	25	10.3	44.3	34.1	32.8	100±15	24.3				
			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										

†5000 ft. put-up available in Blue only. • RJ-45 Compatible • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C**

Outer jacket is sunlight- and oil-resistant. • Jacket sequentially marked at 1 meter intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • U.S. Patents 5,606,151 and 5,734,126

Cat 5e • 24 AWG Solid Bare Copper Conductors • Twisted Pairs • Rip Cord • See Color Code Chart (below)

Polyolefin Insulation • .030" Industrial Grade Sunlight- and Oil-resistant PVC Jacket (Black or Blue)																
	7918A	NEC:	4	1000	304.8	28.0	12.7	.230	5.84	1	2.0	62.3	60.3	60.8	100±15	20.0
		CMR,		2000 ††	609.6	52.0	23.6	4	4.1	53.3	49.2	48.7	100±15	23.0		
		CMX-Outdoor		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							

††2000 ft. put-up available in Black only. • RJ-45 Compatible • Jacket sequentially marked at 2 ft. intervals

Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C** • Third party verified to TIA/EIA-568-B.2, Category 5e

Cat 5e • 24 AWG Solid BC • Twisted Pairs • Overall Beldfoil® Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire • See Color Code Chart

Polyolefin Insulation • .030" Industrial Grade Sunlight- and Oil-resistant PVC Jacket (Black or Blue)																	
	Shielded	7919A	NEC:	4	1000	304.8	35.0	15.9	.265	6.73	1	2.0	62.3	60.3	60.8	100±15	20.0
			CMR,		2000 †	609.6	68.0	30.9	4	4.1	53.3	49.2	48.7	100±15	23.0		
			CMX-Outdoor		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							

†2000 ft. put-up available in Black only. • RJ-45 Compatible • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C** • Cable passes -40°C Cold Bend per UL1581

Shield is bonded to jacket inner wall for electrical stability. • Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • P-07-KA060004-MSHA*

Cat 5e • 24 AWG Stranded (7x32) Bare Copper Conductors • Twisted Pairs • See Color Code Chart (below)

Polyolefin Insulation • .030" Industrial Grade Sunlight- and Oil-resistant Black PVC Jacket																	
	Stranded/Flexible	7930A	NEC:	4	1000	304.8	29.0	13.2	.240	6.09	1	2.5	62.3	59.8	60.8	100±15	20.0
			CMR,		2000	609.6	56.0	25.4	4	4.9	53.3	48.4	48.7	100±15	23.0		
			CMX-Outdoor		10	7.8	47.3	39.5	40.8	100±15	25.0						
			CEC:		16	9.9	44.3	34.4	36.7	100±15	25.0						
			CMR FT4		31.25	14.1	39.9	25.8	30.9	100±15	23.6						
					62.5	20.4	35.4	15.0	24.8	100±15	21.5						
			100		26.4	32.3	5.9	20.8	100±15	20.1							
			200		38.9	27.8	—	14.7	100±25	15.0							

Installation Temperature: 0°C to +75°C • Operating Temperature: -25°C to +75°C** • Cable passes -25°C Cold Bend per UL1581

RJ-45 Compatible • Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2, Category 5e • P-07-KA060003-MSHA*

ACR = Attenuation Crosstalk Ratio • BC = Bare Copper • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene-propylene •

NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • TC = Tinned Copper

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*Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

**Subject to length de-rating.

Color Codes: DataTuff

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

For two pair products: use color codes for Pairs 2 & 3