

Industrial Data Solutions® — Industrial Ethernet

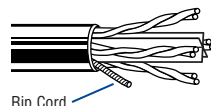
Category 6 DataTuff® Twisted Pair Cables, 4-Pair

Heavy-Duty 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 6 • 23 AWG Bonded-Pairs Solid BC Conductors • Patented E-Spline Center Member • Rip Cord • See Color Code Chart

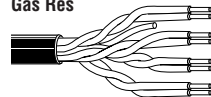
Polyolefin Insulation • .030" Industrial Grade Sunlight- and Oil-resistant Black PVC Jacket

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									
	7927A	NEC: CMR CEC: CMR FT4	4	1000	304.8	44.0	20.0	.251	6.38	1	1.9	80.3	78.5	70.8	100±12	20.0		
				2000	609.6	88.0	39.9	x	x	10	5.7	65.3	59.6	50.8	100±12	25.0		
												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	>0.0*	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				

RJ-45 Compatible • Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2-1, Category 6
Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C**
*PSUM ACR >0 is guaranteed to 460 MHz. • U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1

Cat 6 • 23 AWG Bonded-Pairs Solid BC Conductors • See Color Code Chart (below)

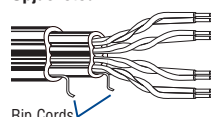
Plenum • FEP Insulation • Sunlight-, Oil- and Gas-resistant Black FEP Jacket

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									
	7931A	NEC: Limited CEC: Combustible FHC 25/50 CMP CEC: CMP FT6	4	1000	304.8	35.0	15.9	.214	5.44	1	2.0	72.3	70.3	64.8	100±15	20.0		
												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				

RJ-45 Compatible
Cable passes -70°C Cold Bend per UL1581 • Installation Temperature: -55°C to +150°C • Operating Temperature: -70°C to +150°C**
Jacket sequentially marked at 2 ft. intervals • Third party verified to TIA/EIA-568-B.2-1, Category 6 • U.S. Patents 5,606,151 and 5,734,126

Enhanced Cat 6 • 23 AWG Bonded-Pairs Solid BC Conductors • Rip Cord • See Color Code Chart (below)

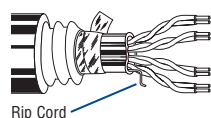
Polyolefin Insulation • PVC Inner Jacket • .035" Industrial Grade PVC Outer Jacket (Black or Gray)

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											
	11872A	NEC: CM CEC: CM FT1	4	1000	304.8	66.0	30.0	.475	12.07	1	1.9	72.3	70	64.8	100±12	20.0				
												4	3.7	63.3	59	52.7	100±12	23.0		
												10	5.9	57.3	51	44.8	100±12	25.0		
												16	7.5	54.3	46	40.7	100±12	25.0		
												31.25	10.6	49.9	39	34.9	100±15	23.6		
												62.5	15.4	45.4	30	28.8	100±15	21.5		
												100	19.8	42.3	25	24.8	100±15	21.0		
												155	25.1	39.5	14	20.9	100±15	21.0		
												200	29.0	37.9	10	18.7	100±15	21.0		
												310	37.1	34.9	—	14.9	100±20	18.0		
												x	x	350	39.8	34.2	—	13.9	100±22	17.0
												.165	4.19	400†	43.0	33.3	—	12.7	100±32	14.0
										500†	49.0	31.8	—	10.8	100±32	14.0				

†Value provided for information only. • RJ-45 Compatible • Cable passes -25°C Cold Bend per UL1581
Installation Temperature: -10°C to +75°C • Operating Temperature: -25°C to +75°C**
Jacket sequentially marked at 2 ft. intervals • Verified to TIA/EIA-568-B.2-1, Category 6 • U.S. Patents 5,606,151, 5,734,126 and 5,821,467

Enhanced Cat 6 • 23 AWG Bonded-Pairs Solid BC Conductors • Polyester Wrap • Rip Cord • See Color Code Chart (below)

AL Interlocked Armor • Polyolefin Insulation • PVC Inner Jacket • .055" Industrial Grade PVC Outer Jacket (Black or Gray)

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											
	121872A	NEC: HL CEC: CMG FT4	4	1000	304.8	222.0	100.6	.684	17.37	1	1.9	72.3	70	64.8	100±12	20.0				
												4	3.7	63.3	59	52.7	100±12	23.0		
												10	5.9	57.3	51	44.8	100±12	25.0		
												16	7.5	54.3	46	40.7	100±12	25.0		
												31.25	10.6	49.9	39	34.9	100±15	23.6		
												62.5	15.4	45.4	30	28.8	100±15	21.5		
												100	19.8	42.3	25	24.8	100±15	21.0		
												155	25.1	39.5	14	20.9	100±15	21.0		
												200	29.0	37.9	10	18.7	100±15	21.0		
												310	37.1	34.9	—	14.9	100±20	18.0		
												x	x	350	39.8	34.2	—	13.9	100±22	17.0
												.165	4.19	400†	43.0	33.3	—	12.7	100±32	14.0
										500†	49.0	31.8	—	10.8	100±32	14.0				

†Value provided for information only. • RJ-45 Compatible • Jacket sequentially marked at 1 meter intervals
Cable passes -40°C Cold Bend per UL1581 • Installation Temperature: -25°C to +75°C • Operating Temperature: -40°C to +75°C**
Verified to TIA/EIA-568-B.2-1, Category 6 • U.S. Patents 5,606,151, 5,734,126 and 5,821,467

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