

DataTwist® 5e UTP Cable

TIA/EIA-568-B.2, Category 5e Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω / 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	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										

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

Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Dark Gray or Blue)

	1588A	NEC:	2	U-1000	U-304.8	14.0	6.4	.183	4.65	9.38	5.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0				
		CM		1000	304.8	15.0	6.8								4	4.1	53.3	49.2	48.7	100±15	23.0		
		CEC:		1640†	500.0	24.6	11.2									10	6.5	47.3	40.8	40.8	100±15	25.0	
		CM														16	8.2	44.3	36.0	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	19.0	24.9	100±15	21.5	
	1588R	NEC:	2	U-1000††	U-304.8	14.0	6.4	.183	4.65				100	22.0	32.3	10.3	20.8	100±15	20.1				
		CMR		1000††	304.8	15.0	6.8								200	32.0	27.8	1.0	14.7	100±25	15.0		
		CEC:																					
		CMR																					

†1640 ft. put-up available in Dark Gray only.

††U-1000 ft. and 1000 ft. put-ups available in Blue only

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in White, Black, Gray, Blue, Red, Orange, Yellow, Green or Pink)

	1583A	NEC:	4	U-1000	U-304.8	21.0	9.5	.195	4.95	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0				
		CM		1000	304.8	21.0	9.5								4	4.1	53.3	49.2	48.7	100±15	23.0		
		CEC:		1640†	500.0	34.4	15.7									10	6.5	47.3	40.8	40.8	100±15	25.0	
		CM		3000†	914.4	63.0	28.6									16	8.2	44.3	36.0	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	19.0	24.9	100±15	21.5	
	1583R	NEC:	4	U-1000††	U-304.8	22.0	10.0	.197	5.00				100	22.0	32.3	10.3	20.8	100±15	20.1				
		CMR		1000††	304.8	22.0	10.0								200	32.0	27.8	1.0	14.7	100±25	15.0		
		CEC:		3000††	914.4	63.0	28.6																
		CMR																					

†1640 ft. put-up available in Dark Gray or Blue only. 3000 ft. put-up available in Dark Gray, White or Blue only.

††1583R is not available in Black. 3000 ft. put-ups available in Dark Gray, White or Blue only.

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

Non-Plenum • Polyolefin Insulation • Fluorescent Pink PVC Jacket

	DataBrite® 1583B	NEC:	4	U-1000	U-304.8	19.0	8.6	.195	4.95	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0			
		CMR		1000	304.8	20.0	9.1								4	4.1	53.3	49.2	48.7	100±15	23.0	
		CEC:														10	6.5	47.3	40.8	40.8	100±15	25.0
		CMR														16	8.2	44.3	36.0	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	19.0	24.9	100±15	21.5
	1583B	NEC:	4	U-1000	U-304.8	19.0	8.6	.195	4.95	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0			
		CMR		1000	304.8	20.0	9.1								4	4.1	53.3	49.2	48.7	100±15	23.0	
		CEC:														10	6.5	47.3	40.8	40.8	100±15	25.0
		CMR														16	8.2	44.3	36.0	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	19.0	24.9	100±15	21.5

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

Non-Plenum • Polyolefin Insulation • UV Resistant PVC Jacket (Available in Gray, White or Ivory)

	Indoor/Outdoor 1594A	NEC:	4	U-1000	U-304.8	26.0	11.8	.220	5.58	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0			
		CMR/CMX													4	4.1	53.3	49.2	48.7	100±15	23.0	
		CEC:														10	6.5	47.3	40.8	40.8	100±15	25.0
		CMR/CMX														16	8.2	44.3	36.0	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	19.0	24.9	100±15	21.5
	1594A	NEC:	4	U-1000	U-304.8	26.0	11.8	.220	5.58	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0			
		CMR/CMX													4	4.1	53.3	49.2	48.7	100±15	23.0	
		CEC:														10	6.5	47.3	40.8	40.8	100±15	25.0
		CMR/CMX														16	8.2	44.3	36.0	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	19.0	24.9	100±15	21.5

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

Outside Plant • Polyolefin Insulation • Black Gel-filled Polyethylene Jacket

	Outdoor 7997A		4	1000	304.8	38.0	17.2	.251	6.38	8.90	3.0	66.0	1	2.0	68.3	66.3	64.8	100±15	20.0			
															4	4.0	59.3	55.3	52.8	100±15	23.0	
																10	6.4	53.3	46.9	44.8	100±15	25.0
																16	8.1	50.2	42.1	40.7	100±15	25.0
																31.25	11.4	45.9	34.5	34.9	100±15	23.6
																62.5	16.4	41.4	25.0	28.9	100±15	21.5
	7997A		4	1000	304.8	38.0	17.2	.251	6.38	8.90	3.0	66.0	1	2.0	68.3	66.3	64.8	100±15	20.0			
															4	4.0	59.3	55.3	52.8	100±15	23.0	
																10	6.4	53.3	46.9	44.8	100±15	25.0
																16	8.1	50.2	42.1	40.7	100±15	25.0
																31.25	11.4	45.9	34.5	34.9	100±15	23.6
																62.5	16.4	41.4	25.0	28.9	100±15	21.5
	7997A		4	1000	304.8	38.0	17.2	.251	6.38	8.90	3.0	66.0	1	2.0	68.3	66.3	64.8	100±15	20.0			
															4	4.0	59.3	55.3	52.8	100±15	23.0	
																10	6.4	53.3	46.9	44.8	100±15	25.0
																16	8.1	50.2	42.1	40.7	100±15	25.0
																31.25	11.4	45.9	34.5	34.9	100±15	23.6
																62.5	16.4	41.4	25.0	28.9	100±15	21.5
	7997A		4	1000	304.8	38.0	17.2	.251	6.38	8.90	3.0	66.0	1	2.0	68.3	66.3	64.8	100±15	20.0			

DataTwist® 5e UTP Cable

TIA/EIA-568-B.2, Category 5e Nonbonded-Pair Cables

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	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										


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

Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Natural or Blue)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	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										
 Rip Cord	1590A	NEC: CMP CEC: CMP FT6	2	1000	304.8	16.0	7.3	.175	4.44	9.38	5.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0
				10	6.5	47.3	49.2	40.8	100±15	25.0									
				16	8.2	44.3	40.8	36.7	100±15	25.0									
				31.25	11.7	39.9	36.0	30.9	100±15	23.6									
				62.5	17.0	35.4	28.2	24.8	100±15	21.5									
				100	22.0	32.3	19.0	20.8	100±15	20.1									
200	32.0	27.8	10.3	14.7	100±25	15.0													

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e

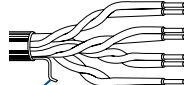
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Red, Orange, Yellow, Green, Gray, White, Black, Pink, Natural or Blue)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	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										
 Rip Cord	1585A	NEC: CMP CEC: CMP FT6	4	U-1000	U-304.8	23.0	10.5	.198	5.03	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0
				1000	304.8	24.0	10.9	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	36.0	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	19.0	24.8	100±15	21.5									
100	22.0	32.3	10.3	20.8	100±15	20.1													
200	32.0	27.8	1.0	14.7	100±25	15.0													

†3000 ft. put-up available in Natural or Blue only.

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e


Plenum • FEP Teflon Insulation • Fluorescent Pink Flamarrest Jacket

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	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										
 Rip Cord	DataBrite® 1585B	NEC: CMP CEC: CMP FT6	4	1000	304.8	24.0	10.9	.197	5.00	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0
				10	6.5	47.3	40.8	40.8	100±15	25.0									
				16	8.2	44.3	36.0	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	19.0	24.8	100±15	21.5									
				100	22.0	32.3	10.3	20.8	100±15	20.1									
200	32.0	27.8	1.0	14.7	100±25	15.0													

Jacket sequentially marked at 2 ft. intervals.

Third party verified to TIA/EIA-568-B.2, Category 5e

Plenum • FEP Teflon Insulation • FEP Jacket (Available in Blue or White)


Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	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										
 Rip Cord	1585LC	NEC: Limited Combustible FHC 25/50 CEC: CMP FT6	4	U-1000	U-304.8	23.0	10.5	.195	4.95	9.38	3.0	330	1	2.0	62.3	60.3	60.8	100±15	20.0
				1000	304.8	23.0	10.5	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	36.0	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	19.0	24.8	100±15	21.5									
100	22.0	32.3	10.3	20.8	100±15	20.1													
200	32.0	27.8	1.0	14.7	100±25	15.0													

Jacket sequentially marked at 2 ft. intervals. No rip cord.

Third party verified to TIA/EIA-568-B.2, Category 5e

Patch Cable • 24 AWG Stranded (7x32) Bare Copper Conductors • Twisted Pairs • RJ-45 Compatible* • See Color Code Chart (below)

Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple, Light Gray, White or Black)

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		Max. DCR (Ω/100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/100m)	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										
 Rip Cord	Patch Cable 1592A	NEC: CM CEC: CM FT1	4	U-1000	U-304.8	22.0	10.0	.213	5.41	9.38	3.0	330	1	2.5	62.3	—	60.8	100±15	20.0
				1000	304.8	23.0	10.5	4	4.9	53.3	—	48.7	100±15	23.0					
				10	7.8	47.3	—	40.8	100±15	25.0									
				16	9.9	44.3	—	36.7	100±15	25.0									
				31.25	14.1	39.9	—	30.9	100±15	23.6									
				62.5	20.4	35.4	—	24.8	100±15	21.5									
100	26.4	32.3	—	20.8	100±15	20.1													
200	38.9	27.8	—	14.7	100±25	15.0													

*RJ-45 compatible for either T568-A or T568-B configurations.

Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e Patch

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • FEP = Fluorinated Ethylene Propylene • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: DataTwist 5e

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

Teflon is a DuPont trademark.



For more information, contact Belden Technical Support: 1-800-BELDEN-1 • www.belden.com

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