

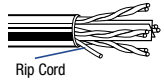
# DataTwist® 600e U/UTP Cables

TIA/EIA-568-B.2-1, Category 6,  
Enhanced Category 6 Bonded-Pair Cables

**Certified System 4800LX**

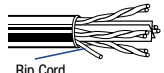
De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Freq. MHz	Max. Atten. dB/100m	Min. PSUM			Input Imp. ( )	Min. RL dB
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m		

**Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Patented E-Spline Center Member • Rip Cord**

<b>Polyolefin Insulation • PVC Jacket</b> (Red, Orange, Yellow, Green, Blue, Black, White and Grey)																												
 Rip Cord 4-Pair	<b>7851A</b>	NEC:	1000	305	37.9	17.2	0.57 mm 23 AWG Solid BC	0.044	1.13	<b>Bonded-Pair</b>	0.227	5.77	1	1.9	80.3	78.5	70.8	100 ± 12	20.0									
		CMR	A-1000	A-305	47.0	21.3					Unshielded	x								x	10	5.7	65.3	59.6	50.8	100 ± 12	25.0	
		CEC:									U/UTP	0.315								8.00	31.25	10.2	57.9	47.7	40.9	100 ± 15	25.0	
		CMR																			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													

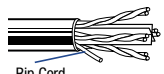
Color Code: see chart below

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. Features descending length marking.

<b>Polyolefin Insulation • Grey Haloarrest® Jacket</b>																				
 Rip Cord 4-Pair	<b>7851NH</b>	1000	305	39.0	17.7	0.57 mm 23 AWG Solid BC	0.044	1.13	<b>Bonded-Pair</b>	0.241	6.12									see above
		A-1000	A-305	48.1	21.8					Unshielded	x									

Color Code: see chart below

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 1 m intervals. Features descending length marking.

<b>Plenum • FEP Teflon® Insulation • Flamarrrest® Jacket</b> (Red, Orange, Yellow, Green, Blue, Black, White and Grey)																				
 Rip Cord 4-Pair	<b>7852A</b>	NEC:	1000	305	39.9	18.1	0.57 mm 23 AWG Solid BC	0.043	1.08	<b>Bonded-Pair</b>	0.218	5.54								see above
		CMP	A-1000	A-305	48.9	22.2					Unshielded	x								
		CEC:																		
		CMP																		

Color Code: see chart below  
A-305 m put-up not available in Red.

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. Features descending length marking.

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  
\* PSUM ACR > 0 is guaranteed to 460 MHz.

Teflon® is a DuPont trademark.

 Not RoHS compliant at time of printing.

**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

**DataTwist 600e: Beyond Category 6**

Belden DataTwist 600e data cable is a revolutionary UTP cable engineered specifically to perform well beyond Category 6 standards. While Category 6 cable is specified only to 250 MHz, DataTwist 600e is the only Cat 6 UTP cable in the industry fully characterized with guaranteed performance to 600 MHz. So users have far more headroom to compensate for unforeseen factors that can inhibit the performance of a cabling system today...and protection of their technology investment for the future.

**Handy Cable Preparation Tool Speeds Installation of Bonded-Pair Cables**

You know the high-performance benefits of using data cables featuring Belden's unique Bonded-Pair technology. The Belden cable preparation tool (1797B) now makes it faster and easier than ever to prepare cables for connector termination providing special features that help separate twisted pairs. The cable preparation tool is packed with every spool of DataTwist® 600e. See page 15.37 for more information.

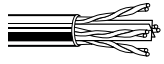


**Category 6 U/UTP Cables**

TIA/EIA-568-B.2, Category 6,  
Bonded-Pair Cables

**Certified System 2400**

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. ( )	Min. RL dB
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m		
<b>Cat 6 • 23 AWG • Bonded-Pair • Solid 0.6 mm Bare Copper • Twisted Pair</b>																			
<b>Polyolefin Insulation • PVC Jacket (Grey and Blue)</b>																			
	<b>7812E</b>		B-328	B-100	9.5	4.3	0.57 mm	0.042	1.06	<b>Bonded-Pair</b>	0.256	6.50	1	2.1	72.0	70.2	65.0	100 ± 15	20.0
			U-1000	U-305	28.9	13.1	23 AWG			Unshielded			4	3.8	63.0	59.4	53.0	100 ± 15	23.0
			1640	500	47.4	21.5	Solid BC			U/UTP			10	6.0	57.0	51.3	45.0	100 ± 15	25.0
			3280	1000	94.8	43.0							16	7.6	54.0	46.6	41.0	100 ± 15	25.0
													20	8.5	53.0	44.3	39.0	100 ± 15	25.0
													25	9.6	51.0	41.8	37.0	100 ± 15	24.3
													31.25	10.7	50.0	39.1	35.0	100 ± 15	23.6
													62.5	15.5	45.0	29.9	29.0	100 ± 15	21.5
													100	19.9	42.0	22.4	25.0	100 ± 15	20.1
													155	25.3	39.0	14.1	21.0	100 ± 22	18.8
													200	29.1	38.0	8.6	19.0	100 ± 22	18.0
													250	33.0	36.0	3.3	17.0	100 ± 22	17.3

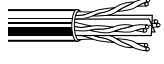


4-Pair

Color Code: see chart below

Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

<b>Polyolefin Insulation • FRNC / LSNH Jacket (Grey and Blue)</b>																				
	<b>7812ENH</b>		B-328	B-100	9.5	4.3	0.57 mm	0.042	1.06	<b>Bonded-Pair</b>	0.256	6.50								see above
			1000	305	28.9	13.1	23 AWG			Unshielded										
			1640	500	47.4	21.5	Solid BC			U/UTP										



4-Pair

Color Code: see chart below

Burning Energy: 535 kJ/m  
Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

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

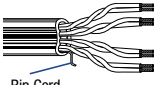
**Get the Bonded-Pairs Cable Preparation Tool**

See page 15.37 for details.  
(Part No. 1797B)

**MediaTwist® U/UTP Cables**

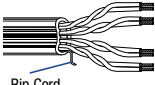
TIA/EIA-568-B.2-1, Category 6,  
Enhanced Category 6 Bonded-Pair Cables

**Certified System 2400**

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. ( )	Min. RL dB						
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m								
<b>Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper • Rip Cord</b>																									
<b>Polyolefin Insulation • PVC Jacket</b> (Blue, Red, Yellow, Orange, Green, Gold, Violet, White, Black and Grey)																									
 Rip Cord  4-Pair	<b>1872A</b>	NEC:	1000	305	37.0	16.8	0.57 mm 23 AWG Solid BC	0.042	1.06	<b>Bonded-Pair</b>	0.365	9.27	1	1.9	Min. PSUM			100 ± 12	20.0						
		CMR	A-1000	A-305	37.0	16.8					Unshielded	x			x	4	3.7			63.3	59.0	52.8	100 ± 12	23.0	
		CEC:									U/UTP	0.165			4.19	8	5.3			58.8	53.0	46.7	100 ± 12	24.5	
		CMR														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
																	25			9.5	51.4	42.0	36.8	100 ± 15	24.3
																	31.25			10.6	49.9	39.0	34.9	100 ± 15	23.6
																	62.5			15.4	45.4	30.0	28.9	100 ± 15	21.5
																	100			19.8	42.3	25.0	24.8	100 ± 15	21.0
																	155			25.1	39.5	14.0	20.9	100 ± 15	21.0
																	200			29.0	37.8	10.0	18.8	100 ± 15	21.0
																	250			32.8	36.3	3.0	16.8	100 ± 20	18.0
																	300			35.2	35.2	> 0	15.2	100 ± 20	18.0
																	350			39.8	34.2	-	13.9	100 ± 22	17.0
									400*	43.0	-	-	-	100 ± 32	14.0										
									500*	49.0	-	-	-	100 ± 32	14.0										

Color Code: see chart below  
A-305 m put-up not available in Black.

Third party verified to TIA/EIA-568-B.2-1, Category 6  
U.S. Patents 5,606,151; 5,734,126; 5,821,467  
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

<b>Plenum • FEP Teflon® Insulation • Flamarrest® Jacket</b> (Blue, Natural, Grey, Red, Yellow, Orange, Green, Gold, Violet, White and Black)																								
 Rip Cord  4-Pair	<b>1874A</b>	NEC:	1000	305	37.0	16.8	0.57 mm 23 AWG Solid BC	0.039	1.00	<b>Bonded-Pair</b>	0.365	9.27	1	1.9	Min. PSUM			100 ± 12	20.0					
		CMP	A-1000	A-305	37.9	17.2					Unshielded	x			x	4	3.7			63.3	59.0	52.8	100 ± 12	23.0
		CEC:									U/UTP	0.165			4.19	8	5.3			58.8	53.0	46.7	100 ± 12	24.5
		CMP														10	5.9			57.3	51.0	44.8	100 ± 12	25.0

Color Code: see chart below  
A-305 m put-up not available in Black.

Third party verified to TIA/EIA-568-B.2-1, Category 6  
U.S. Patents 5,606,151; 5,734,126; 5,821,467  
Jacket sequentially marked at 0.6 m intervals. Features descending length marking.

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  
\* Values provided for information only.

Teflon® is a DuPont trademark.

Ⓢ Not RoHS compliant at time of printing.

**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

**Get the Bonded-Pairs  
Cable Preparation Tool**

See page 15.37 for details.  
(Part No. 1797B)



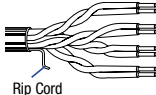
### DataTwist® 350 U/UTP Cables

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

**Certified System 1200**

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. ( )	Min. RL dB
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m		

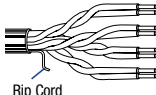
**Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Rip Cord**

Polyolefin Insulation • PVC Jacket (Red, Orange, White, Black, Yellow, Green, Blue, Violet, Light Grey and Grey)																			
 <p>Rip Cord</p> <p>4-Pair</p>	1700A	NEC:	U-1000	U-305	22.0	10.0	0.51 mm	0.038	0.97	Bonded-Pair Unshielded U/UTP	0.200	5.08	1	2.0	65.3	63.3	60.8	100 ± 12	20.0
		CM	1000	305	22.0	10.0	24 AWG						4	4.0	56.3	52.3	48.8	100 ± 12	23.0
		CEC:	1640	500	36.2	16.4	Solid BC						8	5.7	51.8	46.1	42.7	100 ± 12	24.5
		CM	3000	914	63.1	28.6							10	6.4	50.3	43.9	40.8	100 ± 12	25.0
			3280	1000	72.3	32.8							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 ± 18	19.0					
								250	36.4	29.3	> 0	12.8	100 ± 20	18.0					
								350	44.3	27.2	> 0	9.9	100 ± 22	17.0					

305 m put-up not available in Grey.  
914 m put-up available in Red, Blue, White or Light Grey only.  
500 m put-up available in Light Grey or Blue only.  
1000 m put-up available in Light Grey 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. Features descending length marking.  
Color Code: see chart below

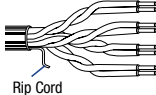
**Polyolefin Insulation • PVC Jacket (Grey and Blue)**

 <p>Rip Cord</p> <p>4-Pair</p>	1700E	B-328	B-100	6.1	2.8	0.51 mm	0.038	0.97	Bonded-Pair Unshielded U/UTP	0.197	5.00							
		U-1000	U-305	18.7	8.5	24 AWG												
		1000	305	18.7	8.5	Solid BC												
		1640	500	30.9	14.0													
		3280	1000	61.7	28.0													

Color Code: see chart below

Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

**Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)**

 <p>Rip Cord</p> <p>4-Pair</p>	1700ENH	60332-1	B-328	B-100	6.1	2.8	0.51 mm	0.038	0.97	Bonded-Pair Unshielded U/UTP	0.197	5.00	see above						
		CSA FT1	U-1000	U-305	18.7	8.5	24 AWG												
		UL CM	1640	500	30.9	14.0	Solid BC												
		UL ISDI (Vertical Tray)	3280	1000	61.7	28.0													

Color Code: see chart below

305 m and 1000 m put-up available in Grey only.

Burning Energy: 298 kJ/m  
Flame Test: IEC 60332-2, UL CM UL ISDI Vertical Tray, CAS FT1  
Applicable industry standards: EN 50173, ISO/IEC 11801, TIA/EIA 568-B2

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

**Get the Bonded-Pairs Cable Preparation Tool**



See page 15.37 for details.  
(Part No. 1797B)


**DataTwist® 350 Composite U/UTP Cables**

ANSI/TIA/EIA-568-B.2, Category 5e,

Banana Peel® Jacketless Cables

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. ( )	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****Polyolefin Insulation • PVC Inner Jacket (Light Blue and Grey) • No Overall Jacket**


	1700S6	NEC:	500	152	77.6	35.2	0.51 mm	0.038	0.97	<b>Bonded-Pair</b> Unshielded U/UTP	0.204	5.18	1	2.0	65.3	63.3	60.8	100 ± 12	20.0		
		CMR	1000	305	149.1	67.7	24 AWG								10	6.4	50.3	43.9	40.8	100 ± 12	25.0
		CEC:					Solid BC								16	8.1	47.3	39.1	36.7	100 ± 12	25.0
		CMG													31.25	11.6	42.9	31.3	30.9	100 ± 15	23.6
															62.5	16.8	38.4	21.6	24.9	100 ± 15	21.5
															100	21.7	35.3	17.1	20.8	100 ± 15	20.1
															200	32.0	30.8	3.0	14.7	100 ± 20	19.0
															250	36.4	29.3	> 0	12.8	100 ± 20	18.0
								350	44.3	27.2	-	9.9	100 ± 22	17.0							

24-Pair

1700R Bundled  
0.60/15.24

Color Code: see chart below

Individual leg is third party verified to ANSI/TIA/EIA 568-B.2, Category 5e  
U.S. Patents 5,606,151; 5,734,126; 7,049,523.**Plenum • FEP Insulation • Flamarrest® Inner Jacket (Blue and Natural) • No Overall Jacket**

	1701S6	NEC:	500	152	81.6	37.0	0.51 mm	0.036	0.91	<b>Bonded-Pair</b> Unshielded U/UTP	0.195	4.95	see above						
		CMP	1000	305	157.1	71.3	24 AWG												
		CEC:					Solid BC												
		CMP																	

24-Pair

1700R Bundled  
0.60/15.24

Color Code: see chart below

Individual leg is third party verified to ANSI/TIA/EIA 568-B.2, Category 5e  
U.S. Patents 5,606,151; 5,734,126; 7,049,523.

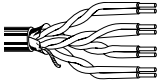
BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

**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

### Category 6 F/UTP Cables

EN 50173, ISO/IEC 11801, Class E, Category 6,  
Bonded-Pair Cables

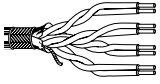
De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Freq. MHz	Max. Atten. dB/100m	Min. PSUM			Input Imp. ( )	Min. RL dB			
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m					
<b>Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Overall Beldfoil® Shield • 26 AWG Tinned Copper Drain Wire</b>																						
<b>Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)</b>																						
 4-Pair	7860ENH		B-328	B-100	11.0	5.0	0.57 mm	0.046	1.17	<b>Bonded-Pair</b> Overall Beldfoil® + Drain Wire (26 AWG TC) F/UTP	0.287	7.30	1	2.1	72.0	70.2	65.0	100 ± 15	20.0			
			1640	500	54.9	24.9	23 AWG								4	3.8	63.0	59.4	53.0	100 ± 15	23.0	
			3280	1000	110.2	50.0	Solid BC								10	6.0	57.0	51.3	45.0	100 ± 15	25.0	
																16	7.6	54.0	46.6	41.0	100 ± 15	25.0
																20	8.5	53.0	44.3	39.0	100 ± 15	25.0
																25	9.6	51.0	41.8	37.0	100 ± 15	24.3
																31.25	10.7	50.0	39.1	35.0	100 ± 15	23.6
																62.5	15.5	45.0	29.9	29.0	100 ± 15	21.5
																100	19.9	42.0	22.4	25.0	100 ± 15	20.1
																155	25.3	39.0	14.1	21.0	100 ± 22	18.8
												200	29.1	38.0	8.6	19.0	100 ± 22	18.0				
												250	33.0	36.0	3.3	17.0	100 ± 22	17.3				

Color Code: see chart below

Burning Energy: 560 kJ/m

### Category 6 SF/UTP Cables

EN 50173, ISO/IEC 11801, Class E, Category 6,  
Bonded-Pair Cables

De- Description	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. ( )	Min. RL dB			
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m					
<b>Cat 6 • 23 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Overall Beldfoil® Shield • 26 AWG TC Drain Wire • Overall TC Braid</b>																						
<b>Polyolefin Insulation • FRNC/LSNH Jacket (Grey and Blue)</b>																						
 4-Pair Braided 7860E	7860ENS		B-328	B-100	12.5	5.7	0.57 mm	0.046	1.17	<b>Bonded-Pair</b> Overall Beldfoil® + Drain Wire (26 AWG TC) + TC Braid SF/UTP	0.295	7.50	1	2.1	72.0	70.2	65.0	100 ± 15	20.0			
			1640	500	62.8	28.5	23 AWG								4	3.8	63.0	59.4	53.0	100 ± 15	23.0	
			3280	1000	125.4	56.9	Solid BC								10	6.0	57.0	51.3	45.0	100 ± 15	25.0	
																16	7.6	54.0	46.6	41.0	100 ± 15	25.0
																20	8.5	53.0	44.3	39.0	100 ± 15	25.0
																25	9.6	51.0	41.8	37.0	100 ± 15	24.3
																31.25	10.7	50.0	39.1	35.0	100 ± 15	23.6
																62.5	15.5	45.0	29.9	29.0	100 ± 15	21.5
																100	19.9	42.0	22.4	25.0	100 ± 15	20.1
																155	25.3	39.0	14.1	21.0	100 ± 22	18.8
												200	29.1	38.0	8.6	19.0	100 ± 22	18.0				
												250	33.0	36.0	3.3	17.0	100 ± 22	17.3				

Color Code: see chart below

Burning Energy: 560 kJ/m

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

#### Get the Bonded-Pairs Cable Preparation Tool

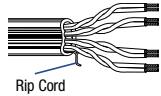
See page 15.37 for details.  
(Part No. 1797B)



**MediaTwist® and DataTwist® 6 U/UTP Patch Cables**

TIA/EIA-568-B.2-1, Category 6,  
Enhanced Category 6, Bonded-Pair Cables

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. ( )	Min. RL dB
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m		
<b>Cat 6 • 24 AWG • Bonded-Pair • Stranded (7x32) 0.6 mm Tinned Copper • RJ-45 Compatible</b>																			
<b>Polyolefin Insulation • PVC Jacket</b> (Yellow, Green, Blue, Violet, Light Grey, Grey, White and Black)																			
MediaTwist® 1875GB	NEC:		1000	305	31.1	14.1	0.61 mm	0.041	1.05	<b>Bonded-Pair</b>	0.365	9.27	1	1.9	72.3	70.0	64.8	100 ± 12	20.0
	CMR	A-1000	A-305	32.0	14.5	24 AWG				Unshielded	x	x	4	3.7	63.3	59.0	52.8	100 ± 12	23.0
	CEC:					(7x32) TC				U/UTP	0.165	4.19	8	5.3	58.8	53.0	46.7	100 ± 12	24.5
	CMR												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
													25	9.5	51.4	42.0	36.8	100 ± 15	24.3
													31.25	10.6	49.9	39.0	34.9	100 ± 15	23.6
													62.5	15.4	45.4	30.0	28.9	100 ± 15	21.5
													100	19.8	42.3	25.0	24.8	100 ± 15	21.0
													155	25.1	39.5	14.0	20.9	100 ± 15	21.0
													200	29.0	37.8	10.0	18.8	100 ± 15	21.0
													250	32.8	36.3	3.0	16.8	100 ± 20	18.0
													300	35.2	35.2	> 0	15.2	100 ± 20	18.0
													350	39.8	34.2	-	13.9	100 ± 22	17.0
												400	43.0	-	-	-	100 ± 32	14.0	
												500	49.0	-	-	-	100 ± 32	14.0	



Rip Cord

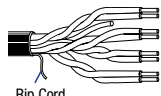
4-Pair

Color Code: see chart below\*  
305 m put-up not available in Purple.  
A-305 m put-up not available in Black.

Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch  
U.S. Patents 5,606,151; 5,734,126; 5,763,823 and 5,821,467  
Jacket sequentially marked at 0.6 m intervals.

**Cat 6 • 24 AWG • Solid 0.5 mm Bare Copper • Twisted Pair • Central Slit-Film Filler • RJ-45 Compatible**

<b>Polyolefin Insulation • PVC Jacket</b> (Red, Orange, Yellow, Green, Blue, Violet, White and Black)																			
DataTwist® 7883A	NEC:		1000	305	24.0	10.9	0.51 mm	0.038	0.97	<b>Bonded-Pair</b>	0.205	5.21	1	2.4	72.3	69.9	64.8	100 ± 15	20.0
	CM						24 AWG			Unshielded			10	7.1	57.3	50.2	44.8	100 ± 15	25.0
	CEC:						Solid BC			U/UTP			20	10.2	52.8	42.6	38.8	100 ± 15	25.0
	CM												31.25	12.8	49.9	37.1	34.9	100 ± 15	23.6
													62.5	18.5	45.4	26.9	28.9	100 ± 15	21.5
													100	23.8	42.3	18.5	24.8	100 ± 15	20.1
												200	34.8	37.8	3.0	18.8	100 ± 22	18.0	
												250	39.4	36.3	-	16.8	100 ± 32	17.3	



Rip Cord

4-Pair

Color Code: see chart below\*

Third party verified to TIA/EIA-568-B.2-1, Category 6 Patch  
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 rotation available for T568-A or T568-B wiring schemes.

**Color Code 1875GB**

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

**Color Code 7883A**

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

**Get the Bonded-Pairs  
Cable Preparation Tool**

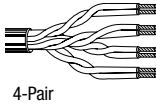
See page 15.37 for details.  
(Part No. 1797B)





### DataTwist® 350 U/UTP Patch Cables

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

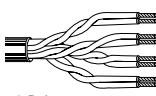
De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Freq. MHz	Max. Atten. dB/100m	Min. PSUM			Input Imp. ( )	Min. RL dB		
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m				
<b>Cat 5e • 24 AWG • Bonded-Pair • Stranded (7x32) 0.6 mm Tinned Copper • RJ-45 Compatible</b>																					
<b>Polyolefin Insulation • PVC Jacket</b> (Yellow, Green, Blue, Violet, Light Grey, Grey, White and Black)																					
 4-Pair	1752A	NEC:	U-1000	U-305	24.0	10.9	0.61 mm	0.038	1.00	Bonded-Pair Unshielded U/UTP	0.220	5.59	1	2.4	65.3	62.9	60.8	100 ± 12	20.0		
		CM	1000	305	26.0	11.8	24 AWG								4	4.8	56.3	51.5	48.7	100 ± 12	23.0
		CEC:					(7x32) TC								8	6.8	51.8	45.0	42.7	100 ± 12	24.5
		CM													10	7.7	50.3	42.6	40.8	100 ± 12	25.0
															16	9.7	47.3	37.5	36.7	100 ± 12	25.0
															25	12.4	44.3	31.9	32.8	100 ± 15	24.3
															31.25	13.9	42.9	29.0	30.9	100 ± 15	23.6
															62.5	20.2	38.4	18.3	24.9	100 ± 15	21.5
															100	26.0	35.3	9.2	20.8	100 ± 15	20.1
															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							

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2, Category 5e Patch  
U.S. Patents 5,606,151; 5,734,126 and 5,763,823  
Jacket sequentially marked at 0.6 m intervals.

### DataTwist® 5e U/UTP Patch Cables

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

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. ( )	Min. RL dB		
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m				
<b>Cat 5e • 24 AWG • Stranded (7x32) 0.6 mm Bare Copper • Twisted Pair • RJ-45 Compatible*</b>																					
<b>Polyolefin Insulation • PVC Jacket</b> (Red, Orange, Yellow, Green, Blue, Violet, Light Grey, White and Black)																					
 4-Pair	1592A	NEC:	U-1000	U-305	22.0	10.0	0.61 mm	0.040	1.02	Non- Bonded-Pair Unshielded U/UTP	0.213	5.41	1	2.5	62.3	-	60.8	100 ± 15	20.0		
		CM	1000	305	23.1	10.5	24 AWG								4	4.9	53.3	-	48.7	100 ± 15	23.0
		CEC:					(7x32) BC								10	7.8	47.3	-	40.8	100 ± 15	25.0
		CM FT1													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

Color Code: see chart below

Third party verified to TIA/EIA-568-B.2, Category 5e Patch  
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  
\* RJ-45 compatible for either T568-A or T568-B configurations.

#### 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






#### Get the Bonded-Pairs Cable Preparation Tool

See page 15.37 for details.  
(Part No. 1797B)





**IEEE 802.3, ISO/IEC 8802.3 10Base2 and 10Base5****Trunk Cables – Thinnet and Thicknet**

De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Core OD (Dielectric)		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. ( )	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation			
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	MHz	dB/ 100 ft.	dB/ 100 m	
<b>Thinnet 10Base2 • 20 AWG • Stranded (19x32) 0.9 mm Tinned Copper • Duobond® II • 93% Tinned Copper Braid</b>																				
<b>Ethernet • Foam HDPE Insulation • Grey PVC Jacket</b>																				
	30V 60°C UL AWM Style 1354	9907 NEC: CL2, CM CEC: CM	500	152	12.6	5.7	0.94 mm	0.102	2.59	Duobond® II + 93% TC 19.0 /km***	0.185	4.70	50	80%	25.4	83.3	1	0.4	1.4	
			U-1000	U-305	25.1	11.4	20 AWG	10	1.3								4.3			
			1000	305	25.1	11.4	(19x32) TC	50	2.9								9.5			
			1640	500	41.0	18.6	47.9 /km*	100	4.2								13.8			
			2500	762	62.6	28.4	28.9 /km**	200	6.1								20.0			
			3280	1000	82.2	37.3		400	8.9								29.2			
DEC Part No. 17-01248-00																	700	12.1	39.7	
For Plenum version of 9907, see 89907 or 82907.																	900	13.9	45.6	
																	1000	14.8	48.6	
<b>Plenum • Ethernet • Foam FEP Insulation • Natural Flamarrest® Jacket</b>																				
	300V 75°C 82907	NEC: CL2P CMP CEC: CMP	† 500	152	12.6	5.7	0.94 mm	0.095	2.41	Duobond® II + 93% TC 19.0 /km***	0.160	4.06	50	80%	25.4	83.3	1	0.4	1.4	
			U-1000	U-305	23.1	10.5	20 AWG	10	1.3								4.3			
			† 1000	305	24.0	10.9	(19x32) TC	50	2.9								9.5			
			† 2500	762	57.5	26.1	47.9 /km*	100	4.2								13.8			
							28.9 /km**	200	6.1								20.0			
								400	9.2								30.2			
DEC Part No. 17-01246-00																	700	12.9	42.3	
Suitable for outdoor and direct burial applications.																	900	15.0	49.2	
																	1000	16.0	52.5	
<b>Plenum • Ethernet • Foam FEP Insulation • Grey Fluorocopolymer Jacket</b>																				
	300V 150°C 89907	NEC: CL2, CM CEC: CM	† 500	152	12.6	5.7	0.94 mm	0.095	2.41	Duobond® II + 93% TC 19.0 /km***	0.160	4.06	50	80%	25.4	83.3	see above			
			† 1000	305	24.0	10.9	20 AWG													
			† 2500	762	60.2	27.3	(19x32) TC													
							47.9 /km*													
							28.9 /km**													
			DEC Part No. 17-01246-00																	
Suitable for outdoor and direct burial applications.																				
<b>Thinnet 10Base2 • 12 AWG • Solid 2.05 mm Bare Copper • Duobond® IV Quad Shield</b>																				
<b>Ethernet • Foam Polyethylene Insulation • Yellow PVC Jacket</b>																				
	30V 60°C UL AWM Style 1478	9880 NEC: CL2, CM CEC: CM	500	152	66.1	30.0	2.05 mm	0.243	6.17	Duobond® IV Quad Shield 5.0 /km***	0.405	10.29	50	78%	25.9	85.0	1	0.2	0.6	
			1000	305	131.2	59.5	12 AWG	5	0.4								1.2			
			1640	500	220.2	99.9	Solid BC	10	0.5								1.7			
							9.66 /km*	50	1.2								3.9			
							4.66 /km**	100	1.7								5.6			
								200	2.6								8.4			
DEC Part No. 17-00451-00 5.0 /km																	400	3.9	12.8	
For Plenum version of 9880, see 89880.																	700	5.5	18.1	
																	900	6.5	21.3	
																	1000	6.9	22.6	
<b>Plenum • Ethernet • Foam FEP Insulation • Orange Fluorocopolymer Jacket</b>																				
	150°C 89880	NEC: CL2P CMP CEC: CMP	† 1000	305	134.3	60.9	2.05 mm	0.245	6.22	Duobond® IV* Quad Shield 5.0 /km***	0.375	9.53	50	78%	25.9	85.0	1	0.2	0.6	
			† 1640	500	225.1	102.1	12 AWG	5	0.4								1.2			
							Solid BC	10	0.5								1.7			
							9.66 /km*	50	1.1								3.8			
							4.66 /km**	100	1.6								5.4			
								200	2.5								8.0			
DEC Part No. 17-00324-00																	400	3.8	12.5	
Suitable for outdoor and direct burial applications.																	700	5.6	18.4	
																	900	6.8	22.3	
																	1000	7.2	23.6	

\* DC loop resistance • \*\* DC resistance inner conductor • \*\*\* DC resistance outer conductor • TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance  
† Spools and/or UnReel® cartons are one piece, but length may vary ±10% from length shown.

Duobond® II and Duobond® IV see technical information page 23.13.

 Not RoHS compliant at time of printing.

# IEEE 802.3, ISO/IEC 8802.3 10Base5

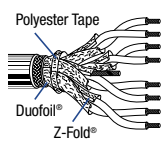
## Transceiver Cables

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		Nom. Imp. ( )	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	

**28 and 24 AWG** • Stranded (7x36) 0.4 mm and (7x32) 0.6 mm Tinned Copper • **Beldfoil®** • Twisted Pair •

**Overall Polyester Isolation Tape + Duofoil® + 92% Tinned Copper Braid + 24 AWG Tinned Copper Drain Wire**

Polypropylene Insulation • Light Grey PVC Jacket																		
30V 80°C UL AWM Style 2919	<b>9903</b>	NEC: CMG CEC: CMG	500 1000	152 305	21.6 43.0	9.8 19.5	3-Pair: 0.38 mm 28 AWG (7x36) TC  1-Pair: 0.61 mm 24 AWG (7x32) TC	0.033  0.044	0.84  1.12	Individual Beldfoil® + Drain Wire (24 AWG TC) + Overall Duofoil® + 92% TC Braid	0.250  0.250	6.35  6.35	78*  78*	66%  66%	CDR/CDR  CDR/CDR	19.7 34.8 114.2	64.6 114.2	Grey/White, Yellow/Orange  Blue/Green, Black/Red

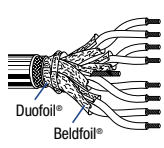


4-Pair  
\* 3-Pair

**20 AWG** • Stranded (7x28) 1.0 mm Tinned Copper • **Beldfoil®** • Twisted Pair •

**Overall Polyester Isolation Tape + Duofoil® + 95% Tinned Copper Braid + 22 AWG Tinned Copper Drain Wire**

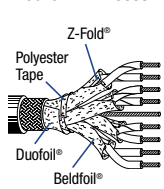
Datalene® Insulation • Light Grey PVC Jacket																		
30V 80°C UL AWM Style 2919	<b>9901</b>	NEC: CL2, CM CEC: CM	500 1000	152 305	53.6 106.3	24.3 48.2	1.0 mm 20 AWG (7x28) TC	0.077  0.077	1.96  1.96	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Duofoil® + 95% TC Braid	0.415  0.415	10.54  10.54	78  78	78%  78%	CDR/CDR  CDR/CDR	16.7 29.5 96.8	54.8 96.8	Grey/White Yellow/Orange, Blue/Green, Black/Red



4-Pair  
DEC Part No. 17-01320-00

**Plenum • FEP Teflon® Insulation\*\* • Light Grey Fluorocopolymer (PVDF) Jacket**

150°C	<b>89901</b>	NEC: CMP CEC: CMP	** 500 ** 1000	152 305	51.6 104.3	23.4 47.3	1.0 mm 20 AWG (7x28) TC	0.060  0.060	1.52  1.52	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Duofoil® + 95% TC Braid	0.370  0.370	9.40  9.40	78  78	78%  78%	CDR/CDR  CDR/CDR	16.7 29.5 96.8	54.8 96.8	Grey/White Yellow/Orange, Blue/Green, Black/Red
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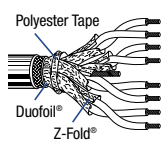


4-Pair  
DEC Part No. 17-01319-00  
Suitable for outdoor and direct burial applications.

**20 and 22 AWG** • Stranded (7x30) 0.8 mm and (7x28) 1.0 mm Tinned Copper • **Beldfoil®** • Twisted Pair •

**Overall Duofoil® + 95% Tinned Copper Braid + 22 AWG Tinned Copper Drain Wire**

Ethernet • Foam HDPE (22 AWG) and PVC (20 AWG) Insulation • Light Blue PVC Jacket																		
30V 80°C UL AWM Style 2919	<b>9891</b>	NEC: CM CEC: CM	100 500 1000	30 152 305	8.2 35.9 70.1	3.7 16.3 31.8	3-Pair: 0.76 mm 22 AWG (7x30) TC  1-Pair: 0.96 mm 20 AWG (7x28) TC	0.063  0.062	1.59  1.57	Individual Beldfoil® + Drain Wire (22 AWG TC) + Overall Duofoil® + 95% TC Braid	0.315  0.315	8.00  8.00	78*  78*	78%  78%	CDR/CDR  CDR/CDR	16.7 29.5 96.8	54.8 96.8	Black/White Yellow/Orange, Blue/Green, Black/Red  Blue/Green, Grey/Violet



4-Pair  
\* 3-Pair

TC = Tinned Copper • DCR = DC resistance • \*\* Foam FEP (data pairs) and solid FEP (power pair).  
Duofoil® see technical information page 23.13. Teflon® is a DuPont trademark.

⚠ Not RoHS compliant at time of printing