Belden

DATATWIST®

11 Networking Cables

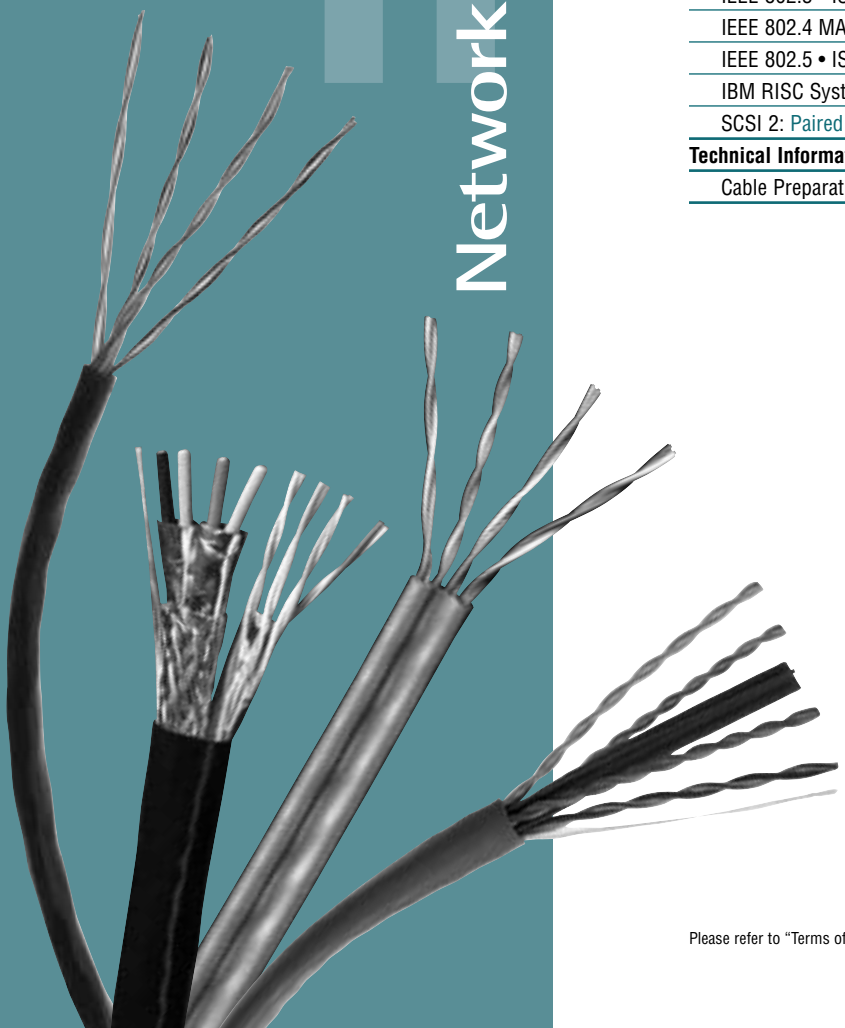


Table of Contents

Please refer to “Terms of Use of Master Catalog” on page 16.30.

Introduction

DATATWIST®

Structured cabling is the lifeline of a communications system and a key determinant of network performance.

To help achieve optimum network performance, Belden has built reliability into each cable it produces. The result is a comprehensive, unfailing line of cables that fulfill the requirements of your specific application and/or the applicable TIA/EIA Category requirement.

A strict adherence to quality manufacturing processes and a dedication to innovative, performance-enhancing design have enabled Belden to stay at the forefront of this fast paced industry. No one makes a better performing or more reliable networking cable than Belden.

Breakthrough Bonded-Pair Design

Belden's breakthrough Bonded-Pair cables are the result of a patented design that bonds the individual insulated conductors together along their longitudinal axes. This unique physical characteristic results in uniform conductor-to-conductor spacing — a key aspect in consistent electrical performance. Even when a Bonded-Pair cable is subjected to everyday installation stresses such as bending, coiling and pulling, its conductor-to-conductor spacing remains stable.

Installable Performance™

A Category 5e cable that yields 5e performance on the reel but provides only Category 5 performance after installation is of little value.

Since Belden® Bonded-Pair cables are more resistant to the adverse effects of the installation/termination process, they are able to achieve Installable Performance — or achieving the same high level of performance *after* installation. (For more detailed information, please refer to Belden Technical Bulletin TB-66 *The Impact of Typical Installation Stresses on Cable Performance.)*

This superior quality/reliability attribute also offers installer-related dividends as Belden Bonded-Pair cable installations typically require less troubleshooting.

In fact, a recent contractor survey found that Belden Bonded-Pair cables offer significant time/cost savings when the complete installation is taken into consideration. This includes all installation, troubleshooting and correction procedures. (For more detailed information, please refer to Belden Technical Bulletin TB-67, *Contractor Field-Testing Survey Reveals Performance-Related Cost Savings Using Bonded-Pair Cables.)*

More Bonded-Pair Benefits

Signal Integrity

Bonded-Pair cables are designed to maintain signal integrity. Ideally, the centricity, or center-to-center distance, of the copper within the two conductors of the pair should remain fixed and stable along the length of the pair. This centricity varies widely in most unbonded twisted pair cables due to the tendency of gaps to form between the two conductors of a pair.

Fewer Reflected Signal Problems

When a gap forms between the two conductors of a pair, it creates an impedance mismatch. When the transmitted signal encounters this mismatch, portions of the signal are reflected back toward the receiver. This occurrence defines the cable's return loss (RL) characteristics. Belden Bonded-Pair design mitigates the incidence of impedance mismatch/RL since no gaps are formed between the two insulated conductors.

Immunity to Noise

Twisted pairs are designed to cancel out electrical noise from the environment such as EMI/RFI or crosstalk from other pairs. When twisted pairs separate they can act as an antenna, picking up noise from outside sources. Because gaps do not form between the conductors, Bonded-Pair cables are a poor antenna; they are far less likely to receive outside noise.

Belden Bonded-Pair cables exceed the full range of performance criteria, both electrical and physical, and they set a whole new precedent for cabling with confidence. An ever-increasing number of applications requiring optimum performance at high frequencies can now be cabled with the assurance that the users' needs can be accommodated easily, economically — and with the future in mind.

Available Literature

For more information, visit www.belden.com or call Belden for your copy of any available literature.

Brochures

Belden Quality

Bonded-Pair Cables

White Papers

Design for Manufacturability

Sigma

Ensuring Quality

Technical Bulletins

TB-66: *The Impact of Typical Installation Stresses on Cable Performance*

TB-67: *Contractor Field-Testing Survey Reveals Performance-Related Cost Savings Using Bonded-Pair Cables*

Product Bulletins

NP 156: *New DataTwist® 6 UTP Cable from Belden Supports Category 6 Standards*

NP 171: *New DataTwist 600e: Guaranteed Performance to 600 MHz*

NP 175: *New DataTwist 5e+: Enhanced 5e Performance Guaranteed to 350 MHz*

NP 177: *Cable Preparation Tool Speeds Installation of Bonded-Pair Cables*

NP 178: *Belden MediaTwist® Category 6 Bonded-Pair Networking Cables*

NP 179: *Belden DataTwist 350 Bonded-Pair Networking Cables*

NP 180: *Belden DataTwist 5e Twisted Pair Networking Cables*

NP 189: *Belden DataTwist 5e Shielded Networking Cables*

DataTwist® 600e UTP Cable

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

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		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	Inch	mm										
23 AWG Bonded-Pairs Solid Bare Copper • Patented E-Spline Center Member • Rip Cord • See Color Code Chart (below)																					
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Black, White or Dark Gray)																					
	**7851A** new	NEC: CMR CEC: CMR FT4	4	1000 A-1000	304.8 A-304.8	40.0 42.0	18.2 19.1	.009	.23	.225 x .310	5.72 x 7.87	8.2	3.0	65.6	1 10 31.25 62.5 100 155 200 250 350 400 500 550 600	1.9 5.7 10.2 14.7 18.9 23.9 27.5 31.2 37.7 40.6 46.2 48.8 51.4	80.3 65.3 57.9 53.4 50.3 47.5 45.8 44.3 40.2 39.3 37.8 37.2 36.6	78.5 59.6 47.7 38.7 31.4 23.5 18.3 13.2 4.5 0.6 >0* — —	70.8 50.8 40.9 34.9 30.8 27.0 24.8 22.8 19.9 18.8 16.8 16.0 15.2	100±12 100±12 100±15 100±15 100±15 100±15 100±15 100±20 100±22 100±22 100±22 100±22 100±22	20.0 25.0 25.0 25.0 25.0 22.8 21.7 20.5 19.8 19.5 18.4 18.0 17.6
Jacket sequentially marked at 2 ft. intervals. U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1 Third party verified to TIA/EIA-568-B.2-1, Category 6																					
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Red, Orange, Yellow, Green, Blue, Black, White or Gray)																					
	**7852A** new	NEC: CMP CEC: CMP FT6	4	1000 A-1000	304.8 A-304.8	37.0 39.0	16.8 17.7	.008	.20	.215 x .290	5.46 x 7.37	8.2	3.0	65.6	1 10 31.25 62.5 100 155 200 250 350 400 500 550 600	1.9 5.7 10.2 14.7 18.9 23.9 27.5 31.2 37.7 40.6 46.2 48.8 51.4	80.3 65.3 57.9 53.4 50.3 47.5 45.8 44.3 40.2 39.3 37.8 37.2 36.6	78.5 59.6 47.7 38.7 31.4 23.5 18.3 13.2 4.5 0.6 >0* — —	70.8 50.8 40.9 34.9 30.8 27.0 24.8 22.8 19.9 18.8 16.8 16.0 15.2	100±12 100±12 100±15 100±15 100±15 100±15 100±15 100±20 100±22 100±22 100±22 100±22 100±22	20.0 25.0 25.0 25.0 25.0 22.8 21.7 20.5 19.8 19.5 18.4 18.0 17.6
Jacket sequentially marked at 2 ft. intervals. U.S. Patents 5,606,151; 5,734,126; 5,789,711 and 6,297,454-B1 Third party verified to TIA/EIA-568-B.2-1, Category 6																					

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

*PSUM ACR >0 is guaranteed to 460 MHz

Color Codes: DataTwist 600e

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.

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 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 new

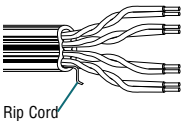
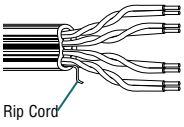
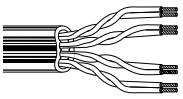
You know the high performance benefits of using data cables featuring Belden's unique Bonded-Pair technology. The Belden Cable Preparation Tool (1797B) now makes it faster and easier than ever to prepare cables for connector termination providing special features that help separate twisted pairs. The Cable Preparation Tool is packed with every spool of DataTwist 600e.
See page 11.24 for more information.

MediaTwist® UTP Cable

TIA/EIA-568-B.2-1, Category 6

Enhanced Category 6 Bonded-Pair Cables

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		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	Inch	mm										
23 AWG Bonded-Pairs Solid Bare Copper • Rip Cord • See Color Code Chart (below)																					
Non-Plenum • Polyolefin Insulation • PVC Jacket (Blue, Red, Yellow, Orange, Green, Gold, Violet, White, Black or Dark Gray)																					
 Rip Cord	**1872A**	NEC: CMR CEC: CMR FT4	4	1000 A-1000*	304.8 A-304.8	37.0 38.0	16.8 17.3	.009	.23	.365 x .165	9.27 x 4.19	9.0	3.0	49.2	1	1.9	72.3	70	64.8	100±12	20.0
															4	3.7	63.3	59	52.7	100±12	23.0
															8	5.3	58.8	53	46.7	100±12	24.5
															10	5.9	57.3	51	44.8	100±12	25.0
															16	7.5	54.3	46	40.7	100±12	25.0
															25	9.5	51.4	42	36.8	100±15	24.3
															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	37.8	10	18.7	100±15	21.0
															250	32.8	36.3	3	16.8	100±20	18.0
*A-1000 ft. put-up not available in Black. Jacket sequentially marked at 2 ft. intervals. U.S. Patents 5,606,151; 5,734,126; 5,821,467 Third party verified to TIA/EIA-568-B.2-1, Category 6															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
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Blue, Natural, Dark Gray, Red, Yellow, Orange, Green, Gold, Violet, White or Black)																					
 Rip Cord	**1874A**	NEC: CMP CEC: CMP FT6	4	1000 A-1000**	304.8 A-304.8	40.0 41.0	18.2 18.6	.009	.23	.365 x .165	9.27 x 4.19	9.0	3.0	49.2	1	1.9	72.3	70	64.8	100±12	20.0
															4	3.7	63.3	59	52.7	100±12	23.0
															8	5.3	58.8	53	46.7	100±12	24.5
															10	5.9	57.3	51	44.8	100±12	25.0
															16	7.5	54.3	46	40.7	100±12	25.0
															25	9.5	51.4	42	36.8	100±15	24.3
															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	37.8	10	18.7	100±15	21.0
															250	32.8	36.3	3	16.8	100±20	18.0
**A-1000 ft. put-up not available in Black. Jacket sequentially marked at 2 ft. intervals. U.S. Patents 5,606,151; 5,734,126; 5,821,467 Third party verified to TIA/EIA-568-B.2-1, Category 6															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
Patch Cables • 24 AWG Bonded-Pairs Stranded (7x32) Tinned Copper • RJ-45 Compatible • See Color Code Chart (below)▲																					
Non-Plenum • Polyolefin Insulation • PVC Jacket (Red, Orange, Yellow, Green, Blue, Violet, Light Gray, Dark Gray, White or Black)																					
	**1875GA**	NEC: CMR CEC: CMR FT4	4	1000 A-1000†	304.8 A-304.8	31.0 32.0	14.1 14.5	.009	.23	.365 x .165	9.27 x 4.19	9.0	3.0	49.2	1	2.0	72.3	70	64.8	100±12	20.0
															4	4.1	63.3	59	52.7	100±12	23.0
															8	5.8	58.8	53	46.7	100±12	24.5
															10	6.5	57.3	51	44.8	100±12	25.0
															16	8.2	54.3	46	40.7	100±12	25.0
															20	9.3	52.8	44	38.7	100±12	25.0
															25	10.4	51.4	41	36.8	100±15	24.3
															31.25	11.7	49.9	38	34.9	100±15	23.6
	1875GB	NEC: CMR CEC: CMR FT4	4	1000†† A-1000††	304.8 A-304.8	31.0 32.0	14.1 14.5								62.5	17.0	45.4	28	28.8	100±15	21.5
															100	22.0	42.3	20	24.8	100±15	21.0
															155	30.2	39.5	9	20.9	100±15	21.0
															200	34.8	37.8	3	18.7	100±15	21.0
															250	39.4	36.3	—	16.8	100±20	18.0
															310	47.6	34.9	—	14.9	100±20	18.0
															350	51.1	34.2	—	13.9	100±22	17.0

†A-1000 ft. put-up not available in Red, Orange, Blue or Black.
††A-1000 ft. put-up not available in Red, Orange, Dark Gray or Black. 1000 ft. put-up not available in Red, Orange or Dark Gray.
U.S. Patents 5,606,151; 5,734,126; 5,763,823 and 5,821,467

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

◗Values provided for information only.

Color Codes: MediaTwist

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

Color Codes: MediaTwist Patch

Pair No.	1875GA Color Combination	1875GB Color Combination
1	White/Brown Stripe & Brown	White/Brown Stripe & Brown
2	White/Blue Stripe & Blue	White/Blue Stripe & Blue
3	White/Orange Stripe & Orange	White/Green Stripe & Green
4	White/Green Stripe & Green	White/Orange Stripe & Orange

▲Color rotation available for T568-A or T568-B wiring schemes.

Handy Cable Preparation Tool for Bonded-Pairs

See page 11.24 for details.

new

(Part No. 1797B)

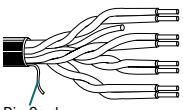
Teflon is a DuPont trademark.

DataTwist® 6 UTP Cable

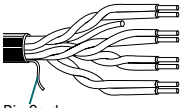
TIA/EIA-568-B.2-1, Category 6 Unbonded-Pair Cables

DATATWIST®

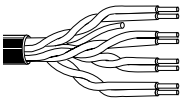
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Min. PSUM ACR (dB/ 100m)	Min. PSUM ELFEXT (dB/ 100m)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm										
23 AWG Solid Bare Copper • Twisted Pairs • Central Rod Filler • Rip Cord • See Color Code Chart (below)																					
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Gray, White or Black)																					
	7881A new	NEC: CMR CEC: CMR FT4	4	1000 A-1000	304.8 A-304.8	32.0 34.0	14.5 15.4	.009	.23	.235	5.97	9.38	5.0	330	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
	7882A new	NEC: CMP CEC: CMP FT6	4	1000 A-1000	304.8 A-304.8	33.0 35.0	15.0 15.9	.008	.20	.224	5.69	9.38	5.0	330	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
Patch Cables • 24 AWG Solid Bare Copper • Twisted Pairs • Central Slit-Film Filler • RJ-45 Compatible* • See Color Code Chart (below)▲																					
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Violet, Light Gray, White or Black)																					
	7883A new	NEC: CM CEC: CM FT1	4	1000	304.8	24.0	10.9	.008	.20	.205	5.21	9.38	5.0	330	1	2.4	72.3	69.9	64.8	100±15	20.0
															10	7.1	57.3	50.2	44.8	100±15	25.0
															20	10.2	52.8	42.6	38.7	100±15	25.0
															31.25	12.9	49.9	37.0	34.9	100±15	23.6
															62.5	18.5	45.4	26.9	28.8	100±15	21.5
															100	23.8	42.3	18.5	24.8	100±15	20.1
															200	34.8	37.8	3.0	18.7	100±22	18.0
															250	39.4	36.3	—	16.8	100±32	17.3



Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2-1, Category 6



Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2-1, Category 6



Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2-1, Category 6

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

*For either T568-A or T568-B configurations.

Color Codes: DataTwist 6

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

Color Codes: DataTwist 6 Patch

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

▲Color rotation available for T568-A or T568-B wiring schemes.

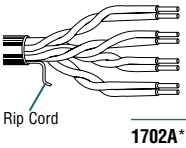
Teflon is a DuPont trademark.

DataTwist® 350 UTP Cable

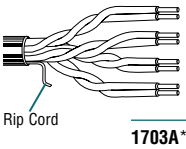
TIA/EIA-568-B.2, Category 5e

Enhanced Category 5e Bonded-Pair Cables

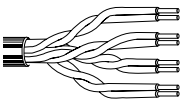
DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		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	Inch	mm										
24 AWG Bonded-Pairs Solid Bare Copper • Rip Cord • See Color Code Chart (below)																					
Non-Plenum • Polyolefin Insulation • PVC Jacket (Red, Orange, White, Black, Yellow, Green, Blue, Purple, Light Gray or Gray)																					
 Rip Cord	**1700A**	NEC: CM	4	U-1000 1000†	U-304.8 304.8	22.0 10.0	10.0	.009	.23	.200	5.08	9.0	3.0	66.0	1	2.0	65.3	63.3	60.8	100±12	20.0
		CEC: CM		1640† 3000† 3280†	500.0 914.4 1000.0	36.1 63.0 72.2	16.4 28.6 32.8								4 8 10 16 25 31.25 62.5 100 155 200 250 350	4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	23.0 24.5 25.0 25.0 24.3 23.6 21.5 20.1 19.0 19.0 18.0 17.0
	1702A*	NEC: CM	2x4	1000†† 1640††	304.8 500.0	45.0 73.8	20.4 33.5	.009	.23	.200 x .415	5.08 x 10.54										
		CEC: CM																			
	1700R new	NEC: CMR	4	U-1000††† 1000†††	U-304.8 304.8	22.0 10.0	10.0	.009	.23	.204	5.18										
		CEC: CMR FT4		3000†††	914.4	63.0	28.6														

*1702A is Siamese version of 1700A.
†1000 ft. put-up not available in Gray. 3000 ft. put-up available in Red, Blue, Purple, White or Light Gray only. 1640 ft. and 3280 ft. put-ups available in Light Gray or Blue only.
††1000 ft. and 1640 ft. put-ups available in Light Gray only.
†††U-1000 ft. and 1000 ft. put-ups not available in Black or Gray. 3000 ft. put-up available in Red, Blue, Purple, White or Light Gray only.
Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially marked at 2 ft. intervals. • U.S. Patents 5,606,151 and 5,734,126

Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Red, Orange, Gray, Yellow, Green, Blue, Purple, Natural or Black)																					
 Rip Cord	**1701A**	NEC: CMP	4	U-1000 1000	U-304.8 304.8	23.0 10.5	10.5	.008	.20	.200	5.08	9.0	3.0	66.0	1	2.0	65.3	63.3	60.8	100±12	20.0
		CEC: CMP FT6		3000†	914.4	66.0	30.0								4 8 10 16 25 31.25 62.5 100 155 200 250 350	4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	23.0 24.5 25.0 25.0 24.3 23.6 21.5 20.1 19.0 19.0 18.0 17.0
	1703A**	NEC: CMP	2x4	1000††	304.8	48.0	21.8	.008	.20	.195 x .405	4.95 x 10.29										
		CEC: CMP FT6																			

**1703A is Siamese version of 1701A.
†3000 ft. put-up available in Red, Blue, Green, Yellow or Natural only.
††1000 ft. put-up available in Blue or Natural only.
Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially marked at 2 ft. intervals. • U.S. Patents 5,606,151 and 5,734,126

Plenum • FEP Teflon Insulation • FEP Jacket (Available in Blue or White)																					
	**1701LC** new	NEC: Limited Combustible FHC 25/50 CMP	4	U-1000 1000	U-304.8 304.8	24.0 10.9	10.9	.008	.20	.187	4.75	9.0	3.0	66.0	1	2.0	65.3	63.3	60.8	100±12	20.0
		CEC: CMP FT6													4 8 10 16 25 31.25 62.5 100 155 200 250 350	4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	23.0 24.5 25.0 25.0 24.3 23.6 21.5 20.1 19.0 19.0 18.0 17.0

1701LC does not have a rip cord.
Third party verified to TIA/EIA-568-B.2, Category 5e
Jacket sequentially marked at 2 ft. intervals. • U.S. Patents 5,606,151 and 5,734,126

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

Color Codes: DataTwist 350

Pair No.	Color Combination
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 11.24 for details.

(Part No. 1797B)

Teflon is a DuPont trademark.

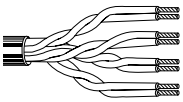
DataTwist® 350 UTP Patch Cable

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

Enhanced Category 5e Bonded-Pair Cables

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		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	Inch	mm										
24 AWG Bonded-Pairs Stranded (7x32) Tinned Copper • RJ-45 Compatible • See Color Code Chart (below)																					
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Black, Yellow, Green, Orange, Blue, Violet or Light Gray)																					
	1752A	NEC:	4	U-1000	U-304.8	23.0	10.5	.008	.20	.220	5.59	9.0	3.0	66.0	1	2.4	65.3	62.9	60.8	100±12	20.0
		CM		1000	304.8	23.0	10.5								4	4.8	56.3	51.5	48.7	100±12	23.0
		CEC:													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	24.8	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



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

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

Color Codes: DataTwist 350

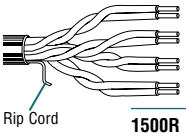
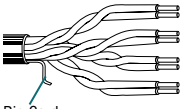
Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

DataTwist® 5e+ UTP Cable

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

Enhanced Category 5e Unbonded-Pair Cables

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		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	Inch	mm										
24 AWG Solid Bare Copper • Twisted Pairs • Rip Cord • See Color Code Chart (below)																					
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, White, Blue or Dark Gray)																					
 Rip Cord	**1500A** new	NEC: CM CEC: CM FT1	4	1000 A-1000	304.8 A-304.8	24.0 27.0	10.9 12.3	.008	.20	.200	5.08	9.0	3.0	66.0	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	63.3 52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	60.8 48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	20.0 23.0 24.5 25.0 25.0 24.3 23.6 21.5 20.1 19.0 19.0 18.0 17.0
	1500R new	NEC: CMR CEC: CMR FT4	4	1000 A-1000	304.8 A-304.8	25.0 28.0	11.4 12.7	.008	.20	.204	5.18										
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																					
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Red, Orange, Yellow, Green, Gray, Blue or Natural)																					
 Rip Cord	**1501A** new	NEC: CMP CEC: CMP FT6	4	1000 A-1000	304.8 A-304.8	26.0 27.0	11.8 12.3	.007	.18	.200	5.08	9.0	3.0	66.0	1 4 8 10 16 25 31.25 62.5 100 155 200 250 350	2.0 4.0 5.7 6.4 8.1 10.3 11.6 16.8 21.7 27.7 32.0 36.4 44.3	65.3 56.3 51.8 50.3 47.3 44.3 42.9 38.4 35.3 32.5 30.8 29.3 27.2	63.3 52.3 46.1 43.9 39.1 34.1 31.3 21.6 17.1 4.7 3.0 — —	60.8 48.7 42.7 40.8 36.7 32.8 30.9 24.8 20.8 16.9 14.7 12.8 9.9	100±12 100±12 100±12 100±12 100±12 100±15 100±15 100±15 100±15 100±18 100±20 100±20 100±22	20.0 23.0 24.5 25.0 25.0 24.3 23.6 21.5 20.1 19.0 19.0 18.0 17.0
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																					

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

Color Codes: DataTwist 5e+

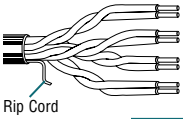
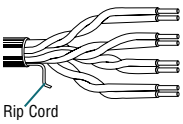
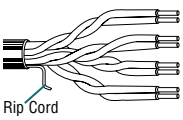
Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

DataTwist® 5e UTP Cable

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

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		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	Inch	mm										
24 AWG Solid Bare Copper • Twisted Pairs • Rip Cord • See Color Code Chart (below)																					
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Dark Gray or Blue)																					
 Rip Cord	**1588A**	NEC: CM CEC: CM	2	U-1000 1000 1640†	U-304.8 304.8 500.0	14.0 15.0 24.6	6.4 6.8 11.2	.008	.20	.183	4.65	9.38	5.0	330	1 10 16 31.25 62.5 100	2.0 6.5 8.2 11.7 17.0 22.0	62.3 47.3 44.3 39.9 35.5 32.3	60 41 36 28 19 11	60.8 40.8 36.7 30.9 24.8 20.8	100±15 100±15 100±15 100±15 100±15 100±15	20.0 25.0 25.0 23.6 21.5 20.1
	1588R	NEC: CMR CEC: CMR FT4	2	U-1000†† 1000††	U-304.8 304.8	14.0 15.0	6.4 6.8														
†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, Dark Gray, Blue, Red, Orange, Yellow, Green or Pink)																					
 Rip Cord	**1583A**	NEC: CM CEC: CM	4	U-1000 1000 1640† 3000†	U-304.8 304.8 500.0 914.4	21.0 21.0 34.4 63.0	9.5 9.5 15.7 28.6	.008	.20	.214	5.44	9.38	5.0	330	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.0 49.0 41.0 36.0 28.0 19.0 11.0 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
	1583R	NEC: CMR CEC: CMR FT4	4	U-1000†† 1000†† 3000††	U-304.8 304.8 914.4	22.0 22.0 66.0	10.0 10.0 30.0														
†1640 ft. put-up available in Dark Gray or Blue only. 3000 ft. put-up available in Dark Gray, White or Blue only. ††U-1000 ft. and 1000 ft. put-ups 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®  Rip Cord	**1583B**	NEC: CMR CEC: CMR FT4	4	U-1000 1000	U-304.8 304.8	21.0 21.0	9.5 9.5	.008	.20	.214	5.44	9.38	3.0	330	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.0 49.0 41.0 36.0 28.0 19.0 11.0 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
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  Rip Cord	**1594A** new	NEC: CMR/CMX CEC: CMR/CMX FT4	4	U-1000	U-304.8	23.0	10.5	.008	.20	.215	5.46	9.38	3.0	330	1 4 10 16 31.25 62.5 100 200	2.0 4.1 6.5 8.2 11.7 17.0 22.0 32.0	62.3 53.3 47.3 44.3 39.9 35.4 32.3 27.8	60.0 49.0 41.0 36.0 28.0 19.0 11.0 1.0	60.8 48.7 40.8 36.7 30.9 24.8 20.8 14.7	100±15 100±15 100±15 100±15 100±15 100±15 100±15 100±25	20.0 23.0 25.0 25.0 23.6 21.5 20.1 15.0
Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																					

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

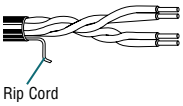
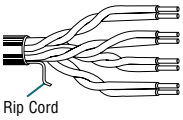
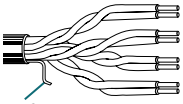
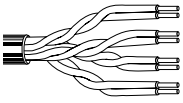
Color Codes: DataTwist 5e

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

DataTwist® 5e UTP Cable

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

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		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	Inch	mm										
24 AWG Solid Bare Copper • Twisted Pairs • Rip Cord • See Color Code Chart (below)																					
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Natural, Blue, Red, Orange, Yellow, Green, Gray, Black or Pink)																					
 Rip Cord	**1590A**	NEC:	2	1000*	304.8	16.0	7.3	.007	.18	.175	4.44	9.38	5.0	330	1	2.0	62.3	60	60.8	100±15	20.0
		CMP		3000*	914.6	45.0	20.5								10	6.5	47.3	41	40.8	100±15	25.0
		CEC:													16	8.2	44.3	36	36.7	100±15	25.0
		CMP FT6													31.25	11.7	39.9	28	30.9	100±15	23.6
															62.5	17.0	35.5	19	24.8	100±15	21.5
															100	22.0	32.3	11	20.8	100±15	20.1
*1000 ft. put-up available in Natural or Blue only. 3000 ft. put-up available in Natural only.																					
 Rip Cord	**1585A**	NEC:	4	U-1000	U-304.8	23.0	10.5	.007	.18	.200	5.08	9.38	3.0	330	1	2.0	62.3	60.0	60.8	100±15	20.0
		CMP		1000	304.8	23.0	10.5								4	4.1	53.3	49.0	48.7	100±15	23.0
		CEC:		3000†	914.6	69.0	31.4								10	6.5	47.3	41.0	40.8	100±15	25.0
		CMP FT6													16	8.2	44.3	36.0	36.7	100±15	25.0
															31.25	11.7	39.9	28.0	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	11.0	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																					
DataBrite®  Rip Cord	**1585B**	NEC:	4	1000	304.8	24.0	10.9	.007	.18	.200	5.08	9.38	3.0	330	1	2.0	62.3	60.0	60.8	100±15	20.0
		CMP													4	4.1	53.3	49.0	48.7	100±15	23.0
		CEC:													10	6.5	47.3	41.0	40.8	100±15	25.0
		CMP FT6													16	8.2	44.3	36.0	36.7	100±15	25.0
															31.25	11.7	39.9	28.0	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	11.0	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)																					
	**1585LC**** new	NEC: Limited Combustible FHC 25/50 CMP	4	U-1000	U-304.8	23.0	10.5	.007	.18	.184	4.67	9.38	3.0	330	1	2.0	62.3	60.0	60.8	100±15	20.0
				1000	304.8	23.0	10.5								4	4.1	53.3	49.0	48.7	100±15	23.0
															10	6.5	47.3	41.0	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	28.0	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	11.0	20.8	100±15	20.1
															200	32.0	27.8	1.0	14.7	100±25	15.0
		CEC: CMP FT6																			
**1585LC does not have a rip cord. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e																					

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

Color Codes: DataTwist 5e

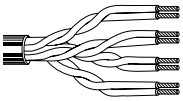
Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

DataTwist® 5e UTP Patch Cable

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

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		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	Inch	mm										
24 AWG Stranded (7x32) Bare Copper • Twisted Pairs • RJ-45 Compatible* • See Color Code Chart (below)																					
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Violet, Light Gray, White or Black)																					
	**1592A** new	NEC: CM CEC: CM FT1	4	U-1000 1000	U-304.8 304.8	23.0 23.0	10.5 10.5	.008	.20	.210	5.33	9.38	3.0	330	1	2.5	62.3	—	60.8	100±15	20.0
															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	—	15.0	100±25	15.0

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

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

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

Color Codes: DataTwist 5e

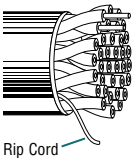
Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

DataTwist® 5 UTP Cable

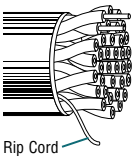
TIA/EIA-568-B.2, Category 5 Unbonded-Pair Cables

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Fitted Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm								
24 AWG Solid Bare Copper • Twisted Pairs • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Light Gray or Blue)																			
	1864A	NEC: CMR CEC: CMR FT4	25	1000	304.8	141.0	64.1	.009	.23	.556	14.12	9.38	5.0	330	1	2.0	62.3	100±15	23.0
															10	6.5	47.3	100±15	23.0
															16	8.2	44.3	100±15	23.0
															31.25	11.7	39.9	100±15	21.1
															62.5	17.0	35.4	100±15	18.0
															100	22.0	32.3	100±15	16.0
	1871A new	NEC: CMP	25	1000	304.8	132.0	60.0	.008	.20	.435	11.05	9.38	5.0	330	1	2.0	62.3	100±15	23.0
															10	6.5	47.3	100±15	23.0
															16	8.2	44.3	100±15	23.0
															31.25	11.7	39.9	100±15	21.1
															62.5	17.0	35.4	100±15	18.0
															100	22.0	32.3	100±15	16.0



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



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

DCR = DC Resistance • NEXT = Near-end Crosstalk • PSUM = Power Sum • SRL = Structural Return Loss • UTP = Unshielded Twisted Pair(s)

Color Codes: DataTwist 5

Pair No.	Color Combination
1	White & Blue
2	White & Orange
3	White & Green
4	White & Brown
5	White & Gray
6	Red & Blue
7	Red & Orange
8	Red & Green
9	Red & Brown
10	Red & Gray
11	Black & Blue
12	Black & Orange
13	Black & Green

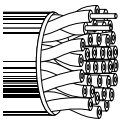
Pair No.	Color Combination
14	Black & Brown
15	Black & Gray
16	Yellow & Blue
17	Yellow & Orange
18	Yellow & Green
19	Yellow & Brown
20	Yellow & Gray
21	Purple & Blue
22	Purple & Orange
23	Purple & Green
24	Purple & Brown
25	Purple & Gray

Teflon is a DuPont trademark.

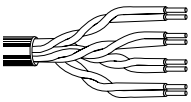
DataTwist® 3 UTP Cable

TIA/EIA-568-B.2, Category 3 Unbonded-Pair Cables

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Weight		Insulation Thickness		Nominal OD		Nominal DCR (Cond.)	Nom. Imped. (Ω)	Nominal Capacitance		Freq. (MHz)	Min. NEXT (dB)	Maximum Attenuation	
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm			* pF/Ft.	* pF/m			(dB/ 1000′)	(dB/ 100m)
24 AWG Solid Bare Copper • Twisted Pairs • See Color Code Chart (below)																			
Non-Plenum • Semi-rigid PVC Insulation • Gray PVC Jacket																			
	**1227A1**	NEC: CMR	2	U-1000	U-304.8	14.0	6.4	.007	.18	.170	4.32	28.0Ω/M′ 91.8Ω/km	100	19.0	62.3	1 4 10 16	41.0 32.0 26.0 23.0	7.8 17.0 30.0 40.0	2.56 5.58 9.71 13.10
	1229A1	NEC: CMR	4	U-1000	U-304.8	22.0	10.0	.006	.15	.200	5.08								
	1232A1	NEC: CMR	25†	1000	304.8	102.0	46.4	.006	.15	.390	9.91								

NEC Article 800
Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2, Category 3

Plenum • Low-Smoke PVC Insulation • White Low-Smoke PVC Jacket																			
	1243A2	NEC: CMP	2	U-1000	U-304.8	12.0	5.5	.007	.18	.160	4.06	28.0Ω/M′ 91.8Ω/km	100	19.0	62.3	1 4 10 16	41.0 32.0 26.0 23.0	7.8 17.0 30.0 40.0	2.56 5.58 9.71 13.10
	**1245A2**	NEC: CMP	4	U-1000	U-304.8	22.0	10.0	.007	.18	.190	4.83								

NEC Article 800
Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-B.2, Category 3

DCR = DC Resistance • NEXT = Near-end Crosstalk • UTP = Unshielded Twisted Pair(s)

*Capacitance between conductors
† 25-pair NEXT is Power Sum tested.

Color Codes: DataTwist 3

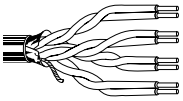
Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe
5	White/Gray Stripe & Gray/White Stripe
6	Red/Blue Stripe & Blue/Red Stripe
7	Red/Orange Stripe & Orange/Red Stripe
8	Red/Green Stripe & Green/Red Stripe
9	Red/Brown Stripe & Brown/Red Stripe
10	Red/Gray Stripe & Gray/Red Stripe
11	Black/Blue Stripe & Blue/Black Stripe
12	Black/Orange Stripe & Orange/Black Stripe
13	Black/Green Stripe & Green/Black Stripe

Pair No.	Color Combination
14	Black/Brown Stripe & Brown/Black Stripe
15	Black/Gray Stripe & Gray/Black Stripe
16	Yellow/Blue Stripe & Blue/Yellow Stripe
17	Yellow/Orange Stripe & Orange/Yellow Stripe
18	Yellow/Green Stripe & Green/Yellow Stripe
19	Yellow/Brown Stripe & Brown/Yellow Stripe
20	Yellow/Gray Stripe & Gray/Yellow Stripe
21	Purple/Blue Stripe & Blue/Purple Stripe
22	Purple/Orange Stripe & Orange/Purple Stripe
23	Purple/Green Stripe & Green/Purple Stripe
24	Purple/Brown Stripe & Brown/Purple Stripe
25	Purple/Gray Stripe & Gray/Purple Stripe

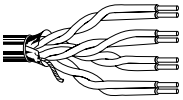
DataTwist® 5e ScTP Cable

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

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		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	Inch	mm										
24 AWG Solid Bare Copper • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire* • RJ-45 Compatible • See Color Code Chart (below)																					
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue or Light Gray)																					
	**1533R** new	NEC: CMR CEC: CMR FT4	4	1000 A-1000 1640†	304.8 A-304.8 500.0	34.0 35.0 49.2	15.5 15.9 22.4	.010	.25	.260	6.60	9.38	5.0	330	1	2.0	62.3	60	60.8	100±15	20.0
															4	4.1	53.3	49	48.7	100±15	23.0
															8	5.8	48.8	43	42.7	100±15	24.5
															10	6.5	47.3	41	40.8	100±15	25.0
															16	8.2	44.3	36	36.7	100±15	25.0
															20	9.3	42.8	34	34.7	100±15	25.0
															25	10.4	41.3	31	32.8	100±15	24.3
															31.25	11.7	39.9	28	30.9	100±15	23.6
															65.5	17.0	35.4	19	24.8	100±15	21.5
															100	22.0	32.3	11	20.8	100±15	20.1

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

Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Red, Orange, Yellow, Green, Blue, Gray or Natural)																					
	**1533P** new	NEC: CMP CEC: CMP FT6	4	1000 A-1000	304.8 A-304.8	34.0 36.0	15.5 16.4	.010	.25	.242	6.15	9.38	5.0	330	1	2.0	62.3	60	60.8	100±15	20.0
															4	4.1	53.3	49	48.7	100±15	23.0
															8	5.8	48.8	43	42.7	100±15	24.5
															10	6.5	47.3	41	40.8	100±15	25.0
															16	8.2	44.3	36	36.7	100±15	25.0
															20	9.3	42.8	34	34.7	100±15	25.0
															25	10.4	41.3	31	32.8	100±15	24.3
															31.25	11.7	39.9	28	30.9	100±15	23.6
															65.5	17.0	35.4	19	24.8	100±15	21.5
															100	22.0	32.3	11	20.8	100±15	20.1

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

ACR = Attenuation Crosstalk Ratio • DCR = DC Resistance • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss
ScTP = Screened (Overall Foil) Twisted Pair(s)

*Drain wire is 24 AWG stranded tinned copper.

Color Codes: DataTwist 5e

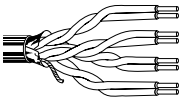
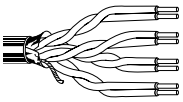
Pair No.	Color Combination
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Teflon is a DuPont trademark.

DataTwist® 5 ScTP Cable

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

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. PSUM NEXT (dB)	Input Imped. (Ω)	Min. SRL (dB)
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm								
24 AWG Solid Bare Copper • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire* • RJ-45 Compatible • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Red, Orange, Yellow, Green, Blue, Purple or Light Gray)																			
	**1624R**	NEC:	4	1000	304.8	34.0	15.5	.011	.27	.250	6.35	9.38	5.0	330	1	2.0	62.0	100±15	23.0
		CMR		A-1000	A-304.8	35.0	15.9								4	4.1	53.0	100±15	23.0
		CEC:		1640†	500.0	54.1	24.7								8	5.8	48.0	100±15	23.0
		CMR FT4													10	6.5	47.0	100±15	23.0
															16	8.2	44.0	100±15	23.0
															20	9.3	42.0	100±15	23.0
															25	10.4	41.0	100±15	22.0
															31.25	11.7	40.0	100±15	21.0
															65.5	17.0	35.0	100±15	18.0
															100	22.0	32.0	100±15	16.0
Plenum • FEP Teflon® Insulation • Flamarrest® Jacket (Available in Red, Orange, Yellow, Green, Blue, Violet, Gray or Natural)																			
	**1624P**	NEC:	4	1000	304.8	34.0	15.5	.011	.27	.235	5.97	9.38	5.0	330	1	2.0	62.0	100±15	23.0
		CMP		A-1000	A-304.8	36.0	16.4								4	4.1	53.0	100±15	23.0
		CEC:													8	5.8	48.0	100±15	23.0
		CMP FT6													10	6.5	47.0	100±15	23.0
															16	8.2	44.0	100±15	23.0
															20	9.3	42.0	100±15	23.0
															25	10.4	41.0	100±15	22.0
															31.25	11.7	40.0	100±15	21.0
															65.5	17.0	35.0	100±15	18.0
															100	22.0	32.0	100±15	16.0

†1640 ft. put-up available in Light Gray only.
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 5

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 5

DCR = DC Resistance • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • ScTP = Screened (Overall Foil) Twisted Pair(s)

*Drain wire is 24 AWG stranded tinned copper.

Color Codes: DataTwist 5

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

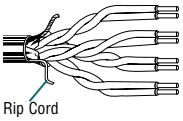
Teflon is a DuPont trademark.

DataTwist® 5 ScTP Cable

TIA/EIA-568-TSB 36, Category 5 Unbonded-Pair Cables

DATATWIST®

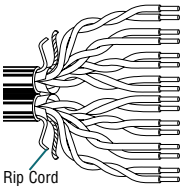
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Insulation Thickness		Nominal OD		Max. DCR (Ω/ 100m)	Max. DCR Unbal. (%)	Max. Cap. Unbal. (pF/ 100m)	Freq. (MHz)	Max. Atten. (dB/ 100m)	Min. NEXT (dB)	Input Imped. (Ω)	Min. RL (dB)
				Ft.	m	Lbs.	kg	Inch	mm	Inch	mm								
24 AWG Solid Bare Copper • Twisted Pairs • Overall Beldfoil® Shield • Drain Wire* • Rip Cord • See Color Code Chart (below)																			
Non-Plenum • Polyolefin Insulation • PVC Jacket (Available in Light Gray or Blue)																			
	1633A	NEC:	4	U-1000	U-304.8	31.0	14.1	.012	.31	.260	6.60	9.38	5.0	330	4	4.1	53.0	100±15	N/A
		CM		1000	304.8	32.0	14.5								10	6.5	47.0	100±15	N/A
		CEC:		1640	500.0	49.2	22.4								16	8.2	44.0	100±15	N/A
		CM		3280†	1000.0	101.7	46.2								31.25	11.7	40.0	100±15	N/A
															62.5	17.0	35.0	100±15	N/A
															100	22.0	32.0	100±15	N/A



†3280 ft. put-up available in Light Gray only.
Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-TSB 36, Category 5

Non-Plenum • Dual • Polyolefin Insulation • Gray PVC Jacket with Polarity Rib

1668A	NEC:	2x4	1000	304.8	70.0	31.8	.012	.31	.518	13.16	9.38	5.0	330	4	4.1	53.0	100±15	N/A
	CM		1640	500.0	109.9	49.9			x	x				10	6.5	47.0	100±15	N/A
	CEC:								.254	6.45				16	8.2	44.0	100±15	N/A
	CM													31.25	11.7	40.0	100±15	N/A
														62.5	17.0	35.0	100±15	N/A
														100	22.0	32.0	100±15	N/A



Jacket sequentially marked at 2 ft. intervals.
Third party verified to TIA/EIA-568-TSB 36, Category 5 (Leg 1 & 2)

DCR = DC Resistance • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • ScTP = Screened (Overall Foil) Twisted Pair(s)

*Drain wire is 24 AWG stranded tinned copper.

Color Codes: DataTwist 5

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

IEEE 802.3 • ISO/IEC 8802.3 10Base2 and 10Base5

Trunk Cables — Thinnet and Thicknet

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	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/ 100m

Thinnet 10Base2 • 20 AWG Stranded (19x32) .037″ Tinned Copper Conductor • Duobond® II + 93% Tinned Copper Braid Shield

Non-Plenum • Ethernet • Foam Polyethylene Insulation • Gray PVC Jacket

UL AWM Style 1354 (30V 80°C)	**9907**	NEC: CL2, CM CEC: CM	500	152.4	12.5	5.7	20 AWG (19x32) .037″ Tinned Copper 8.8Ω/M′ 28.9Ω/km′	.102	2.59	Duobond II + 93% Tinned Copper Braid 5.8Ω/M′ 19.0Ω/km	.185	4.70	50	80%	25.4	83.3	1	.43	1.4
			1000	304.8	25.0	11.4											10	1.30	4.3
			1000	304.8	25.0	11.4											50	2.90	9.5
			1640	500.0	39.4	17.9											100	4.20	13.8
			U-2500	U-762.0	60.0	27.3											200	6.10	20.0
			2500	762.0	62.5	28.4											400	8.90	29.2
			3280	1000.0	82.0	37.3											700	12.10	39.7
																	900	13.90	45.6
																	1000	14.80	48.6

DEC Part No. 17-01248-00

For Plenum versions of 9907, see 89907 or 82907.

Plenum Ethernet • Foam FEP Insulation • Natural Flamarrest® Jacket

150V 75°C	**82907**	NEC: CL2P, CMP CEC: CMP FT6	500†	152.4	12.5	5.7	20 AWG (19x32) .037″ Tinned Copper 8.8Ω/M′ 28.9Ω/km′	.095	2.41	Duobond II + 93% Tinned Copper Braid 5.8Ω/M′ 19.0Ω/km	.160	4.06	50	80%	25.4	83.3	1	.43	1.4
			U-1000	U-304.8	23.0	10.5											10	1.30	4.3
			1000†	304.8	24.0	10.9											50	2.90	9.5
			2500†	762.0	57.5	26.1											100	4.20	13.8
																	200	6.10	20.0
																	400	9.20	30.2
																	700	12.90	42.3
																	900	15.00	49.2
																	1000	16.00	52.5

Plenum Ethernet • Foam FEP Insulation • Gray Fluorocopolymer Jacket

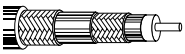
150V 150°C	**89907**†	NEC: CL2P, CMP CEC: CMP FT6	500†	152.4	13.0	5.9	20 AWG (19x32) .037″ Tinned Copper 8.8Ω/M 28.9Ω/km	.095	2.41	Duobond II + 93% Tinned Copper Braid 5.8Ω/M′ 19.0Ω/km	.160	4.06	50	80%	25.4	83.3	1	.43	1.4
			1000†	304.8	24.0	10.9											10	1.30	4.3
			2500†	762.0	60.0	27.3											50	2.90	9.5
																	100	4.20	13.8
																	200	6.10	20.0
																	400	9.20	30.2
																	700	12.90	42.3
																	900	15.00	49.2
																	1000	16.00	52.5

DEC Part No. 17-01246-00
Suitable for Outdoor and Direct Burial applications.

Thicknet 10Base5 • 12 AWG Solid .086″ Bare Copper Conductor • Duobond IV* Quad Shield

Non-Plenum • Ethernet • Foam Polyethylene Insulation • Yellow PVC Jacket

UL AWM Style 1478 (30V 60°C)	**9880**	NEC: CL2, CM CEC: CM	500	152.4	66.0	30.0	12 AWG (solid) .086″ Bare Copper 1.42Ω/M′ 4.66Ω/km	.243	6.17	Duobond IV (Duobond II + 94% TC Braid + Duofoil® + 90% TC Braid) 1.52Ω/M′ 5.0Ω/km	.405	10.29	50	78%	26.0	85.0	1	.19	.62
			1000	304.8	131.0	59.5											5	.37	1.21
			1640	500.0	219.8	99.9											10	.52	1.71
																	50	1.20	3.94
																	100	1.70	5.58
																	200	2.55	8.37
																	400	3.90	12.80
																	700	5.50	18.10
																	900	6.50	21.30
																	1000	6.90	22.60

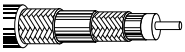


DEC Part No. 17-00451-00
Ring-band stripes marked every 2.5 meters to aid users in tap placement.

For Plenum version of 9880, see 89880.

Plenum Ethernet • Foam FEP Insulation • Orange Fluorocopolymer Jacket

150°C	**89880**	NEC: CL2P, CMP CEC: CMP FT6	500†	152.4	67.0	30.5	12 AWG (solid) .086″ Bare Copper 1.42Ω/M′ 4.66Ω/km	.245	6.22	Duobond IV (Duobond II + 90% TC Braid + Duofoil + 90% TC Braid) 1.52Ω/M′ 5.0Ω/km	.375	9.53	50	78%	26.0	85.0	1	.18	.59
			1000†	304.8	134.0	60.9											5	.37	1.21
			1640†	500.0	224.7	102.1											10	.52	1.71
																	50	1.15	3.77
																	100	1.65	5.41
																	200	2.45	8.04
																	400	3.80	12.50
																	700	5.60	18.40
																	900	6.80	22.30
																	1000	7.20	23.60



DEC Part No. 17-00324-00
Suitable for Outdoor and Direct Burial applications.
Ring-band stripes marked every 2.5 meters to aid users in tap placement.

DCR = DC Resistance • TC = Tinned Copper

*Duobond IV = Duobond II + 94% tinned copper braid + Duofoil® + 90% tinned copper braid.
(Plenum version is Duobond II + 90% tinned copper braid + Duofoil + 90% tinned copper braid.)
†Spools are one piece, but length may vary ±10% from length shown.

IEEE 802.3 • ISO/IEC 8802.3 10Base5
Transceiver Cables

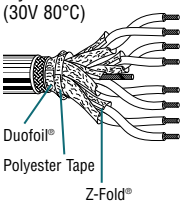
DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Wt.		Conductor (stranding) Nom. DCR	Shielding Materials Nom. DCR	Nominal OD		Drain Wire	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance			
					Ft.	m	Lbs.	kg			Inch	mm				* pF/Ft.	* pF/m	** pF/Ft.	** pF/m

28 and 24 AWG Stranded Tinned Copper • Twisted Pairs • Overall Polyester Isolation Tape + Duofoil® + TC Braid Shield • Drain Wire

Non-Plenum • Polypropylene Insulation • Light Gray PVC Jacket

UL AWM Style 2919 (30V 80°C)	**9903**	NEC: CL2, CMG CEC: CMG FT4	4	Gray/White, Yellow/Orange, Green/Blue, Black/Red	500 1000	152.4 304.8	21.5 43.0	9.8 19.5	3 Pair: 28 AWG (7x36) TC 65.0Ω/M′ 213.0Ω/km 1 Pair: 24 AWG (7x32) TC 24.0Ω/M′ 78.7Ω/km Each Pair Individually Beldfoil® Shielded	Polyester Isolation Tape + Duofoil + 92% Tinned Copper Braid 2.9Ω/M′ 9.5Ω/km	.250	6.35	24 AWG Stranded Tinned Copper	78♦	66%	19.7	64.6	34.8	114.2

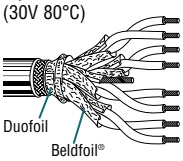


♦3 Pairs

20 AWG Stranded (7x28) Tinned Copper • Twisted Pairs • Overall Polyester Isolation Tape + Duofoil + TC Braid Shield • Drain Wire

Non-Plenum • Datalene® Insulation • Light Gray PVC Jacket

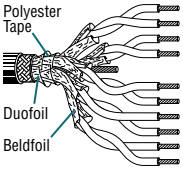
UL AWM Style 2919 (30V 80°C)	**9901**	NEC: CL2, CM CEC: CM	4	Gray/White, Yellow/Orange, Blue/Green, Red/Black	500 1000	152.4 304.8	53.5 106.0	24.3 48.2	20 AWG (7x28) Tinned Copper Each Pair Individually Beldfoil Shielded 10.5Ω/M′ 34.4Ω/km	Polyester Isolation Tape + Duofoil + 95% Tinned Copper Braid 2.0Ω/M′ 6.6Ω/km	.415	10.54	22 AWG Stranded Tinned Copper	78	78%	16.7	54.8	29.5	96.8



For Plenum version of 9901, see 89901.

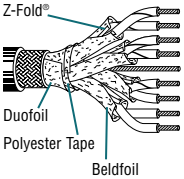
DEC Part No. 17-01320-00

UL AWM Style 2919 (30V 80°C)	**9902**	NEC: CL2, CM CEC: CM	5	Gray/White, Yellow/Orange, Blue/Green, Red/Brown, Red/Black	500 1000	152.4 304.8	76.5 145.0	34.8 65.9	20 AWG (7x28) Tinned Copper Each Pair Individually Beldfoil Shielded 10.5Ω/M′ 34.4Ω/km	Polyester Isolation Tape + Duofoil + 95% Tinned Copper Braid 1.65Ω/M′ 5.4Ω/km	.500	12.70	20 AWG Stranded Tinned Copper	78	78%	16.7	54.8	29.5	96.8



Plenum • FEP Teflon® Insulation† • Light Gray Fluorocopolymer (PVDF) Jacket

150°C	**89901**	NEC: CMP CEC: CMP FT6	4	Gray/White, Yellow/Orange, Blue/Green, Red/Black	500† 1000†	152.4 304.8	51.5 104.0	23.4 47.3	20 AWG (7x28) Tinned Copper Each Pair Individually Beldfoil Shielded 10.5Ω/M′ 34.4Ω/km	Polyester Isolation Tape + Duofoil + 95% Tinned Copper Braid 1.5Ω/M′ 4.9Ω/km	.370	9.40	22 AWG Stranded Tinned Copper	78	78%	16.7	54.8	29.5	96.8



†Foam FEP (data pairs) and solid FEP (power pair).
DEC Part No. 17-01319-00
Suitable for Outdoor and Direct Burial applications.

DCR = DC Resistance • TC = Tinned Copper

* Capacitance between conductors.
** Capacitance between one conductor and other conductors connected to shield.
† Spools are one piece, but length may vary ±10% from length shown.

Teflon is a DuPont trademark.

IEEE 802.4 MAP & Mini-MAP • IEEE 802.7

Broadband Coaxial Cables

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	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/ 100m
RG-6/U Type • 18 AWG Solid Bare Copper-covered Steel • Duobond® IV* Quad Shield																			
Non-Plenum • Foam Polyethylene Insulation • Gray PVC Jacket																			
	**3131A**	NEC: CL2R, CMR CEC: CMR FT4	1000†	304.8	41.0	18.6	18 AWG (solid) .040″ Bare Copper Covered Steel 28.0Ω/M′ 91.8Ω/km	.180	4.57	Duobond IV Quad Shield 3.6Ω/M′ 11.8Ω/km	.298	7.57	75	82%	16.2	53.1	1	.35	1.2
			2500	762.2	97.5	44.3											2	.38	1.3
																	5	.45	1.5
																	10	.59	1.9
																	20	.86	2.8
																	50	1.37	4.5
																	100	1.97	6.5
																	200	2.82	9.3
																	300	3.48	11.4
																	400	4.04	13.3
Tap marks every 2.6 meters to aid users in installation.												Sweep tested 5 MHz to 400 MHz. CPE jacket optional.							
Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket																			
150°C 	**3132A**	NEC: CMP CEC: CMP FT6	1000†	304.8	36.0	16.4	18 AWG (solid) .040″ Bare Copper Covered Steel 28.0Ω/M′ 91.8Ω/km	.170	4.32	Duobond IV Quad Shield 3.6Ω/M′ 11.8Ω/km	.274	6.96	75	82%	16.3	53.5	1	.36	1.2
																	2	.38	1.3
																	5	.50	1.6
																	10	.65	2.1
																	20	.95	3.1
												Sweep tested 5 MHz to 400 MHz.					50	1.50	4.9
																	100	2.12	7.0
																	200	2.99	9.8
Tap marks every 2.6 meters to aid users in installation. Suitable for Outdoor and Direct Burial applications.																	300	3.66	12.0
																	400	4.23	13.9
RG-11/U Type • 14 AWG Solid Bare Copper-covered Steel • Duobond IV* Quad Shield																			
Non-Plenum • Foam Polyethylene Insulation • Gray PVC Jacket																			
	**3094A**	NEC: CL2R, CMR CEC: CMR FT4	500†	152.4	31.0	14.1	14 AWG (solid) .064″ Bare Copper Covered Steel 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond IV Quad Shield 1.8Ω/M′ 5.9Ω/km	.407	10.34	75	82%	16.2	53.1	1	.30	1.0
			1000†	304.8	62.0	28.2											2	.32	1.0
			2000	609.6	120.0	54.5											5	.40	1.3
																	10	60	2.0
																	20	.71	2.3
												Sweep tested 5 MHz to 400 MHz. CPE jacket optional.					50	.90	3.0
																	100	1.20	3.9
																	200	1.70	5.9
																	300	2.08	6.8
Tap marks every 2.6 meters to aid users in installation.																	400	2.40	7.9
Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket																			
150°C 	**3095A**	NEC: CMP, PLTC CEC: CMP FT6	1000†	304.8	76.0	34.5	14 AWG (solid) .064″ Bare Copper Covered Steel 11.0Ω/M′ 36.1Ω/km	.280	7.11	Duobond IV Quad Shield 1.8Ω/M′ 5.9Ω/km	.387	9.83	75	82%	16.5	54.1	1	.20	.7
																	2	.22	.7
																	5	.28	.9
																	10	.39	1.3
																	20	.60	2.0
												Sweep tested 5 MHz to 400 MHz.					50	1.20	3.9
																	100	1.70	5.6
																	200	2.50	8.2
Tap marks every 2.6 meters to aid users in installation. Suitable for Outdoor and Direct Burial applications.																	300	3.04	10.0
																	400	3.50	11.5

DCR = DC Resistance

*Duobond IV Quad Shield = Duobond + 60% aluminum braid + Duofoil® + 40% aluminum braid.
†Spools are one piece, but length may vary ±10% from length shown.

IEEE 802.5; ISO/IEC 8802.5

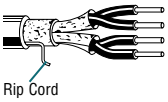
IBM Cabling System
Types 1A and 1

DATATWIST®

IBM Type 1A • 22 AWG Solid Bare Copper • Each Pair Individually Beldfoil® Shielded + Overall 65% TC Braid Shield • Rip Cord

Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket

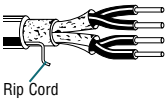
Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance * pF/Ft.	Nominal Capacitance * pF/m	Freq. (MHz)	Maximum Attenuation (dB/ 1000′)	Maximum Attenuation (dB/ 100m)	Min. NEXT (dB/ 1000′)	Min. NEXT (dB/ 100m)
IBM Part No.	**9688**	NEC:	2	500	152.4	26.5	12.0	.296	7.52	22	100%	150	8.5	27.9	4	6.7	2.2	58.0	58.0
4716748		MPG,		1000	304.8	50.0	22.7	x	x	(solid)	Beldfoil				16	13.4	4.4	50.4	50.4
33G2772		CMG		2000	609.8	102.0	46.3	.431	10.95	BC	Each Pair				100	37.5	12.3	38.5	38.5
		CEC:		3600	1097.6	190.8	86.5			.026″	+ 65%				300	65.2	21.4	31.3	31.3
		MPG,								16.7Ω/M′	TC Braid				100††	40.8	13.4	—	—
		CMG FT4								54.7Ω/km	Overall				300††	71.0	23.3	—	—
															600††	100.3	32.9	—	—


Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.
IBM qualified Type 1A Media cable for use in IBM Cabling Systems. For Non-suffix "A" Type IBM Product, **see 1634A** below.

Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance * pF/Ft.	Nominal Capacitance * pF/m	Freq. (MHz)	Maximum Attenuation (dB/ 1000′)	Maximum Attenuation (dB/ 100m)	Min. NEXT (dB/ 1000′)	Min. NEXT (dB/ 100m)
IBM Part No.	**82688**	NEC:	2	500†	152.4	25.0	11.4	.248	6.30	22	100%	150	8.5	27.9	4	6.7	2.2	58.0	58.0
4716749		MPP,		1000†	304.8	47.0	21.4	x	x	(solid)	Beldfoil				16	13.4	4.4	50.4	50.4
33G8220		CMP						.348	8.84	BC	Each Pair				100	37.5	12.3	38.5	38.5
		CEC:								.026″	+ 65%				300	65.2	21.4	31.3	31.3
		MPP,								16.7Ω/M′	TC Braid				100††	40.8	13.4	—	—
		CMP FT6								54.7Ω/km	Overall				300††	71.0	23.3	—	—
															600††	100.3	32.9	—	—

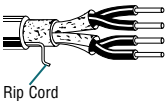

Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified.
IBM qualified Type 1A Media cable for use in IBM Cabling Systems. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.

IBM Type 1 • 22 AWG Solid Bare Copper • Each Pair Individually Beldfoil Shielded + Overall 65% TC Braid Shield • Rip Cord

Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance * pF/Ft.	Nominal Capacitance * pF/m	Freq. (MHz)	Maximum Attenuation (dB/ 1000′)	Maximum Attenuation (dB/ 100m)	Min. NEXT (dB/ 1000′)	Min. NEXT (dB/ 100m)
IBM Part No.	**1634A**	NEC:	2	1000	304.8	50.0	22.7	.296	7.52	22	100%	150	8.5	27.9	4	6.7	2.2	58.0	58.0
4716748		MPG,		2000	609.8	102.0	46.4	x	x	(solid)	Beldfoil				16	13.4	4.4	40.0	40.0
		CMG		3600	1097.6	190.8	86.7	.431	10.95	BC	Each Pair								
		CEC:								.026″	+ 65%								
		MPG,								16.7Ω/M′	TC Braid								
		CMG FT4								54.7Ω/km	Overall								


Rip Cord

Meets IEEE 802.5 and TIA/EIA-568-A specifications, ETL verified. For Token Ring (4/16 Mbps), FDDI over copper, and video applications.
IBM qualified Type 1 Media cable for use in IBM Cabling Systems. For Suffix A counterpart see 9688 above.

DCR = DC Resistance • BC = Bare Copper • NEXT = Near-end Crosstalk • TC = Tinned Copper

* Capacitance between conductors
† Spools are one piece, but length may vary ±10% from length shown.
†† Common mode

Teflon is a DuPont trademark.

IEEE 802.5; ISO/IEC 8802.5

IBM Cabling System
Types 2A and 6A

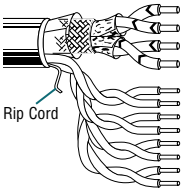
DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Wt.		Nominal OD		AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance		Freq. (MHz)	Maximum Attenuation		Min. NEXT	
				Ft.	m	Lbs.	kg	Inch	mm				* pF/Ft.	* pF/m		(dB/ 1000′)	(dB/ 100m)	(dB/ 1000′)	(dB/ 305m)

IBM Type 2A • 22 AWG Solid Bare Copper • (2) Data Pairs Individually Beldfoil® Shielded + Overall 65% TC Braid + Mylar® Shield • Rip Cord

Non-Plenum • Flame-retardant Foam Polyethylene Insulation • Black PVC Jacket

IBM Part No. 9689
4716739
33G2773



NEC: MPG, CMG
CEC: MPG, CMG FT4

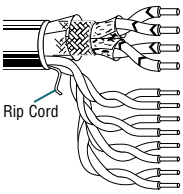
Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance * pF/Ft.	Nominal Capacitance * pF/m	Freq. (MHz)	Maximum Attenuation (dB/ 1000′)	Maximum Attenuation (dB/ 100m)	Min. NEXT (dB/ 1000′)	Min. NEXT (dB/ 305m)
9689	NEC: MPG, CMG CEC: MPG, CMG FT4	6▲	500	152.4	43.0	19.5	.324	8.26	22 (solid) BC .026″ 16.7Ω/M′ 54.7Ω/km	100% Beldfoil Each Pair + 65% TC Braid Overall (data only)	150 @ 1MHz (data) 600 @ 1kHz (voice)	8.5 (data)	27.9 (data)	1k**	.390	.128	—	—
			1000	304.8	80.0	36.4	x	x						4	6.7	2.2	58.0	58.0
			3600	1097.6	298.8	135.8	.466	11.84						16	13.4	4.4	50.4	50.4
														100	37.5	12.3	38.5	38.5
														300	65.2	21.4	31.3	31.3
														100††	40.8	13.4	—	—
														300††	71.0	23.3	—	—
														600††	100.3	32.9	—	—

For Plenum version of 9689, see 82689.

IBM qualified Type 2A Media cable for use in IBM Cabling Systems.

Plenum • Foam FEP Teflon® Insulation • Black Flamarrest® Jacket

IBM Part No. 82689
4716738
33G8221



NEC: MPP, CMP
CEC: MPP, CMP FT6

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance * pF/Ft.	Nominal Capacitance * pF/m	Freq. (MHz)	Maximum Attenuation (dB/ 1000′)	Maximum Attenuation (dB/ 100m)	Min. NEXT (dB/ 1000′)	Min. NEXT (dB/ 305m)
82689	NEC: MPP, CMP CEC: MPP, CMP FT6	6▲	1000†	304.8	79.0	35.9	.324	8.26	22 (solid) BC .026″ 16.7Ω/M′ 54.7Ω/km	100% Beldfoil Each Pair + 65% TC Braid Overall (data only)	150 @ 1MHz (data) 600 @ 1kHz (voice)	8.5 (data)	27.9 (data)	1k**	.390	.128	—	—
							x	x						4	6.7	2.2	58.0	58.0
							.466	11.84						16	13.4	4.4	50.4	50.4
														100	37.5	12.3	38.5	38.5
														300	65.2	21.4	31.3	31.3
														100††	40.8	13.4	—	—
														300††	71.0	23.3	—	—
														600††	100.3	32.9	—	—

IBM qualified Type 2A Media cable for use in IBM Cabling Systems.

IBM Type 6A • 26 AWG Stranded (7x34) Bare Copper Twisted Pairs • Beldfoil Shielded Pairs + Overall 65% Tinned Copper Braid Shield

Non-Plenum • Datalene® Insulation • Striated Black PVC Jacket

IBM Part No. 1215A
4716743
33G2775

NEC: CL2, CM
CEC: CM

Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths Ft.	Standard Lengths m	Standard Unit Wt. Lbs.	Standard Unit Wt. kg	Nominal OD Inch	Nominal OD mm	AWG (stranding) Diameter Nom. DCR	Shielding	Nom. Imped. (Ω)	Nominal Capacitance * pF/Ft.	Nominal Capacitance * pF/m	Freq. (MHz)	Maximum Attenuation (dB/ 1000′)	Maximum Attenuation (dB/ 100m)	Min. NEXT (dB/ 1000′)	Min. NEXT (dB/ 305m)
1215A	NEC: CL2, CM CEC: CM	2	1000†	304.8	46.0	20.9	.325	8.26	26 (7x34) BC .019″ 38.7Ω/M′ 127.0Ω/km	100% Beldfoil Each Pair + 65% TC Braid Overall	150	8.5	27.9	4	10	3.3	52.0	52.0
														16	20	6.6	44.0	44.0
														100	57	18.7	33.0	33.0
														300	100	32.8	25.0	25.0

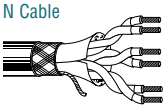
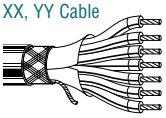
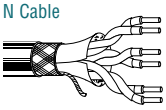
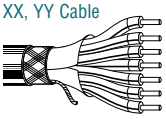
IBM qualified Type 6A Office cable for use in IBM Cabling Systems.

BC = Bare Copper • DCR = DC Resistance • NEXT = Near-end Crosstalk • TC = Tinned Copper

* Capacitance between conductors
** Voice pairs (1 kHz); Data pairs (4–600 MHz)
† Spools are one piece, but length may vary ±10% from length shown.
†† Common mode
▲ (2) shielded Data-grade pairs; (4) unshielded Voice-grade media pairs

IBM RISC System/6000

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs/ Cond.	Standard Lengths		Standard Unit Wt.		Nominal OD		AWG (stranding) Material Nom. DCR	Shielding Material Nom. DCR	Nom. Imped. (Ω)	Nominal Capacitance			
				Ft.	m	Lbs.	kg	Inch	mm				* pF/Ft.	* pF/m	** pF/Ft.	** pF/m
28 AWG Stranded (7x36) Bare Copper Twisted Pairs • Overall Beldfoil® Shielded + 65% Tinned Copper Braid • Tinned Copper Drain Wire																
Non-Plenum • Patented Step Polyolefin Insulation • Gray PVC Jacket (See RISC Color Code Chart below)																
IBM Part No. N Cable  RJ-45 compatible	**1538A**	NEC: CL2	3	U-1000 1000	U-304.8 304.8	24.0 25.0	10.9 11.4	.225	5.72	28 (7x36) Bare Copper 63.0Ω/M′ 207.0Ω/km	Overall Beldfoil + 65% TC Braid 5.5Ω/M′ 18.0Ω/km	120	12.0	39.4	21.5	70.5
IBM Part No. XX, YY Cable  RJ-45 compatible	**1540A**	NEC: CL2	7/c	U-1000 1000	U-304.8 304.8	21.0 21.0	9.5 9.5	.190	4.83	28 (7x36) Bare Copper 63.0Ω/M′ 207.0Ω/km	Overall Beldfoil + 65% TC Braid 7.2Ω/M′ 23.6Ω/km	—	12.5	41.0	23.0	75.5
24 AWG Solid Bare Copper Twisted Pairs • Overall Beldfoil Shielded + 65% Tinned Copper Braid • Tinned Copper Drain Wire																
Non-Plenum • Patented Step Polyolefin Insulation • Gray PVC Jacket (See RISC Color Code Chart below)																
IBM Part No. N Cable  RJ-45 compatible	**1534A**	NEC: CMG CEC: CMG FT4	3	1000	304.8	29.0	13.2	.249	6.32	24 (solid) Bare Copper 25.0Ω/M′ 82.0Ω/km	Overall Beldfoil + 65% TC Braid 4.5Ω/M′ 14.8Ω/km	100	15.0	49.2	26.0	85.3
IBM Part No. XX, YY Cable  RJ-45 compatible	**1536A**	NEC: CMG CEC: CMG FT4	7/c	1000	304.8	35.0	15.9	.244	6.20	24 (solid) Bare Copper 25.0Ω/M′ 82.0Ω/km	Overall Beldfoil + 65% TC Braid 5.3Ω/M′ 17.4Ω/km	—	12.5	41.0	23.0	75.5

DC = DC Resistance • TC = Tinned Copper

* Capacitance between conductors

** Capacitance between one conductor and other conductors connected to shield

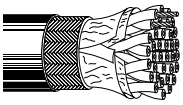
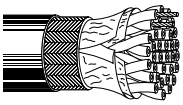
Color Codes: IBM RISC System/6000

Cond.	Color
1st	White over Blue
2nd	White over Orange
3rd	White over Green
4th	White over Brown
5th	White over Gray
6th	White over Red
7th	White over Yellow

Pair No.	Color Combination
1	White over Blue & Blue over White
2	White over Orange & Orange over White
3	White over Green & Green over White

SCSI 2 Paired Cable
(Small Computer System Interface)

DATATWIST®

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Standard Lengths		Standard Unit Weight		Nominal OD		AWG (stranding) Material Nom. DCR	Shielding Material Nom. DCR	Nom. Imped. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance			
				Ft.	m	Lbs.	kg	Inch	mm					* pF/Ft.	* pF/m	** pF/Ft.	** pF/m
SCSI • 28 AWG Stranded (7x36) TC Twisted Pairs • Overall Beldfoil® Shield + 85% TC Braid Shield • Color Code: Mod. Western Electric Standard																	
Non-Plenum • Flame-retardant Polyolefin Insulation • Polypropylene Buffer Layer • Light Gray PVC Jacket																	
		NEC: CL2, CMG CEC: CMG FT4	25	500 1000	152.4 304.8	51.5 101.0	23.4 45.9	.420	10.7	28 (7x36) TC 64.9Ω/M′ 212.9Ω/km	Overall Beldfoil + 85% TC Braid 2.0Ω/M′ 6.6Ω/km	120† 80††	66%	12.7	45.9	30.0	98.4
		NEC: CL2, CM CEC: CM	34	500 1000	152.4 304.8	71.5 139.0	32.5 63.2	.480	12.2	28 (7x36) TC 64.9/M′ 212.2Ω/km	Overall Beldfoil + 85% TC Braid 1.5Ω/M′ 4.9Ω/km	120† 80††	66%	12.7	45.9	30.0	98.4

DCR = DC Resistance • TC = Tinned Copper

* Capacitance between conductors.
** Capacitance between one conductor and other conductors connected to shield.
† Differential mode impedance.
†† Single end mode termination impedance.

Color Codes: Modified Western Electric Standard

Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe
2	White/Orange Stripe & Orange/White Stripe
3	White/Green Stripe & Green/White Stripe
4	White/Brown Stripe & Brown/White Stripe
5	White/Gray Stripe & Gray/White Stripe
6	Red/Blue Stripe & Blue/Red Stripe
7	Red/Orange Stripe & Orange/Red Stripe
8	Red/Green Stripe & Green/Red Stripe

Pair No.	Color Combination
9	Red/Brown Stripe & Brown/Red Stripe
10	Red/Gray Stripe & Gray/Red Stripe
11	Black/Blue Stripe & Blue/Black Stripe
12	Black/Orange Stripe & Orange/Black Stripe
13	Black/Green Stripe & Green/Black Stripe
14	Black/Brown Stripe & Brown/Black Stripe
15	Black/Gray Stripe & Gray/Black Stripe
16	Yellow/Blue Stripe & Blue/Yellow Stripe

Pair No.	Color Combination
17	Yellow/Orange Stripe & Orange/Yellow Stripe
18	Yellow/Green Stripe & Green/Yellow Stripe
19	Yellow/Brown Stripe & Brown/Yellow Stripe
20	Yellow/Gray Stripe & Gray/Yellow Stripe
21	Purple/Blue Stripe & Blue/Purple Stripe
22	Purple/Orange Stripe & Orange/Purple Stripe
23	Purple/Green Stripe & Green/Purple Stripe
24	Purple/Brown Stripe & Brown/Purple Stripe

Pair No.	Color Combination
25	Purple/Gray Stripe & Gray/Purple Stripe
26	White & Blue
27	White & Orange
28	White & Green
29	White & Brown
30	White & Gray
31	Red & Blue
32	Red & Orange
33	Red & Green
34	Red & Brown

Technical Information
Cable Preparation Tool

DATATWIST®

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. This tool is ideal for use with Belden's DataTwist® 350, MediaTwist,® and DataTwist 600e Bonded-Pair cables, providing special features that help separate twisted pairs. It can also be used to prepare any unbonded-pair cable for installation.

Instructions

The Belden Cable Preparation Tool now makes it faster and easier than ever to strip the outer jacket from cables without damaging the inner conductors and insulation.

Jacket Removal

DataTwist: Insert cable into the cutting area and rotate tool at least one complete turn. Remove the jacket end.

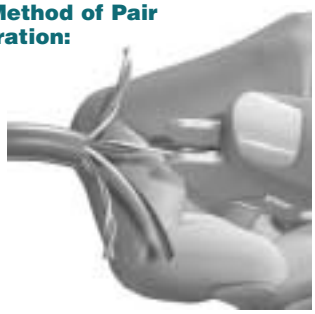
MediaTwist: Score the printed top and both sides of the cable with scissors or the Cable Preparation Tool. Then snap the cable from side to side to complete jacket separation.

Pair Separation Techniques

Belden's Cable Preparation Tool allows you to choose from either the new "Pick" technique or the traditional "Blade Slot" technique to better facilitate pair untwisting. The Pick technique utilizes a steel awl that is incorporated into the tip of the tool that is surrounded on both sides with guards to assist in pair alignment during the pair separation step. The Pick technique allows for a simple "pick-n-pull" motion to easily separate the conductors of a twisted pair cable. The Blade Slot technique provides the technician an alternate method for separating the conductors quickly and easily. See instructions below for either technique.

Choose Either the Pick Method or Blade Slot Method

Pick Method of Pair Preparation:



Lay each twisted pair into the tool channel with the pair ends facing toward the pick. Place your thumb on the thumb notch to stabilize and secure the pair. The tip of the pick should rest in the webbing between the two conductors. While holding the pair in place with your thumb, puncture the pair webbing with the pick.

Hold the cable in one hand and with the hand holding the tool, pull the tool away from you, allowing the pick to separate the conductors of the pair.

Blade Slot Method of Pair Preparation:

Refer to the Blade Slot Selection Table to determine which blade slot to use to separate the pairs.

Insert each twisted pair into the appropriate slot. Rotate the tool and/or the pair in the direction opposite of the twist to prevent stripping the conductor insulation. Continue insertion to match the desired length of untwisted section.

Blade Slot Selection Table

Part No.	Slot A	Slot B	Slot C
1700A	All pairs		
1700R	All pairs		
1701A		All pairs	
1872A	All pairs		
1874A	All pairs		
7851A			All pairs
7852A			All pairs

NOTE: TIA/EIA-568-B allows a maximum of 0.5 inch of untwisted section after termination.