




Product: [1701A](#) 

Category 5E+ Cable, 4 Bonded-Pairs, U/UTP, CMP

Product Description

Category 5E+ Premise Horizontal Cable (350MHz), 4 Bonded-Pairs, 24 AWG Solid Bare Copper Conductors, U/UTP, Plenum-CMP, Flamarrest® PVC-LS Jacket

Technical Specifications

Product Overview

Suitable Applications:	Premise Horizontal Cable, Ethernet 1000BASE-T, Ethernet 100BASE-TX, Ethernet 10BASE-T, PoE++, PoE+, PoE
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/resources/patents .

Construction Details

Conductor

AWG	Stranding	Material	Number of Pairs
24	Solid	BC - Bare Copper	4

Insulation

Material	Color Code
FEP - Fluorinated Ethylene Propylene	White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown
Bonded-Pair:	Yes

Outer Jacket Material

Material	Material Trade Name	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	Flamarrest®	0.195 in	Yes

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalance	Max. Capacitance Unbalance	Nom. Mutual Capacitance
90 Ohm/km	3%	66 pF/100m	15 pF/ft

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew
100 MHz	537.6 ns/100m	25 ns/100m

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. PSNEXT [dB]	Min. PSACR [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance	Min. TCL [dB]	Min. ELTCTL [dB]
1 MHz	2.0 dB/100m	69.3 dB	67.3 dB	65.8 dB	20.0 dB	100 ± 12 Ohm	105 ± 10 Ohm	40.0 dB	35.0 dB
4 MHz	4.0 dB/100m	60.3 dB	56.3 dB	53.8 dB	23.0 dB	100 ± 12 Ohm	100 ± 10 Ohm	40.0 dB	23.0 dB
8 MHz	5.7 dB/100m	55.8 dB	50.1 dB	47.7 dB	24.5 dB	100 ± 12 Ohm	100 ± 10 Ohm	40.0 dB	16.9 dB
10 MHz	6.4 dB/100m	54.3 dB	47.9 dB	45.8 dB	25.0 dB	100 ± 12 Ohm	100 ± 10 Ohm	40.0 dB	15.0 dB
16 MHz	8.1 dB/100m	51.2 dB	43.1 dB	41.7 dB	25.0 dB	100 ± 12 Ohm	100 ± 10 Ohm	38.0 dB	10.9 dB
20 MHz	9.1 dB/100m	49.8 dB	40.7 dB	39.8 dB	25.0 dB	100 ± 12 Ohm	100 ± 10 Ohm	37.0 dB	9.0 dB
25 MHz	10.2 dB/100m	48.3 dB	38.2 dB	37.8 dB	25.0 dB	100 ± 15 Ohm	100 ± 10 Ohm	36.0 dB	7.0 dB
31.25 MHz	11.4 dB/100m	46.9 dB	35.5 dB	35.9 dB	25.0 dB	100 ± 15 Ohm	100 ± 10 Ohm	35.1 dB	
62.5 MHz	16.4 dB/100m	42.4 dB	26.0 dB	29.9 dB	25.0 dB	100 ± 15 Ohm	100 ± 10 Ohm	32.0 dB	

100 MHz	21.0 dB/100m	39.3 dB	18.3 dB	25.8 dB	25.0 dB	100 ± 15 Ohm	100 ± 10 Ohm	30.0 dB	
155 MHz	26.6 dB/100m	36.4 dB	9.8 dB	22.0 dB	19.0 dB	100 ± 18 Ohm	100 ± 10 Ohm	28.1 dB	
200 MHz	30.4 dB/100m	34.8 dB	4.4 dB	19.8 dB	19.0 dB	100 ± 18 Ohm	100 ± 10 Ohm	27.0 dB	
250 MHz	34.4 dB/100m	32.3 dB		17.8 dB	18.0 dB	100 ± 20 Ohm	100 ± 10 Ohm	26.0 dB	
300 MHz	38.0 dB/100m	28.1 dB		14.3 dB	18.0 dB	100 ± 20 Ohm	100 ± 10 Ohm		
350 MHz	41.4 dB/100m	27.1 dB		12.9 dB	17.0 dB	100 ± 20 Ohm	100 ± 10 Ohm		
400 MHz	44.5 dB/100m	26.3 dB		11.8 dB	17.0 dB	100 ± 22 Ohm	100 ± 10 Ohm		
450 MHz	47.6 dB/100m	25.5 dB		10.7 dB	17.0 dB	100 ± 22 Ohm	100 ± 10 Ohm		

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Rating	Operating	Installation	Storage
75°C	-20°C To +75°C	0°C To +50°C	-20°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
0.5 in	2.0 in

Max. Pull Tension:	40 lbs
Bulk Cable Weight:	22 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Plenum, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Fire Resistance:	NFPA 262, UL 910 (Plenum), FT6, FT6, IEC 60332-1-2
NEC / UL Compliance:	800, CMP
CEC / C(UL) Compliance:	CMP
ICEA Compliance:	S-90-661-2012
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3
NEMA Compliance:	NEMA WC-63.1
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 5e
Cenelec Compliance:	Segregation class according EN50174-2=a
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Part Number

Non-Plenum Number:	1700A
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Variants

Item #	Color	Putup Type	Length	UPC
1701A 0101000	Black	Reel	1,000 ft	612825121862
1701A 010U1000	Black	UnReel	1,000 ft	612825121855
1701A D151000	Blue	Reel	1,000 ft	612825121718
1701A D15U1000	Blue	UnReel	1,000 ft	612825121701
1701A D153000	Blue	Reel	3,000 ft	612825121725
1701A 0081000	Gray	Reel	1,000 ft	612825121824
1701A 008U1000	Gray	UnReel	1,000 ft	612825121817
1701A 0051000	Green	Reel	1,000 ft	612825121800
1701A 005U1000	Green	UnReel	1,000 ft	612825121794
1701A 8771000	Natural	Reel	1,000 ft	612825121886
1701A 877U1000	Natural	UnReel	1,000 ft	612825121879
1701A 8773000	Natural	Reel	3,000 ft	612825121893
1701A 0031000	Orange	Reel	1,000 ft	612825121763

1701A 003U1000	Orange	UnReel	1,000 ft	612825121756
1701A B021000	Purple	Reel	1,000 ft	612825121695
1701A B02U1000	Purple	UnReel	1,000 ft	612825121688
1701A 0021000	Red	Reel	1,000 ft	612825121749
1701A 002U1000	Red	UnReel	1,000 ft	612825121732
1701A 0091000	White	Reel	1,000 ft	612825121848
1701A 009U1000	White	UnReel	1,000 ft	612825121831
1701A 0041000	Yellow	Reel	1,000 ft	612825121787
1701A 004U1000	Yellow	UnReel	1,000 ft	612825121770

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Values above 350 MHz are for Engineering Information Only. Print Includes Descending Footage Markings from Max. Put-Up Length to 0.
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History

Update and Revision:	Revision Number: 0.387 Revision Date: 07-28-2020
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