



**Product:** [1700A](#)

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

## Product Description

Category 5E+ Premise Horizontal Cable (350MHz), 4 Bonded-Pairs, 24 AWG Solid Bare Copper Conductors, U/UTP, Riser-CMR, PVC 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 <a href="https://www.belden.com/resources/patents">https://www.belden.com/resources/patents</a> .

### Construction Details

#### Conductor

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

#### Insulation

Material	Color Code
PO - Polyolefin	White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

Bonded-Pair:	Yes
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#### Outer Jacket

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.202 in (5.13 mm)	Yes

Overall Cable Diameter (Nominal):	0.202 in (5.13 mm)
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### Electrical Characteristics

#### Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
90 Ohm/km	66 pF/100m

#### Delay

Frequency	Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
100 MHz	537.6 ns/100m	25 ns/100m	70%

#### High Frequency

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	2.0 dB/100m	69.3	67.3	65.8	20.0	100 ± 12 Ohm	105 ± 10 Ohm	40.0	35.0
4	4.0 dB/100m	60.3	56.3	53.8	23.0	100 ± 12 Ohm	100 ± 10 Ohm	40.0	23.0
8	5.7 dB/100m	55.8	50.1	47.7	24.5	100 ± 12 Ohm	100 ± 10 Ohm	40.0	16.9
10	6.4 dB/100m	54.3	47.9	45.8	25.0	100 ± 12 Ohm	100 ± 10 Ohm	40.0	15.0
16	8.1 dB/100m	51.2	43.1	41.7	25.0	100 ± 12 Ohm	100 ± 10 Ohm	38.0	10.9
20	9.1 dB/100m	49.8	40.7	39.8	25.0	100 ± 12 Ohm	100 ± 10 Ohm	37.0	9.0
25	10.2 dB/100m	48.3	38.2	37.8	25.0	100 ± 15 Ohm	100 ± 10 Ohm	36.0	7.0
31.25	11.4 dB/100m	46.9	35.5	35.9	25.0	100 ± 15 Ohm	100 ± 10 Ohm	35.1	

62.5	16.4 dB/100m	42.4	26.0	29.9	25.0	100 ± 15 Ohm	100 ± 10 Ohm	32.0
100	21.0 dB/100m	39.3	18.3	25.8	25.0	100 ± 15 Ohm	100 ± 10 Ohm	30.0
155	26.6 dB/100m	36.4	9.8	22.0	19.0	100 ± 18 Ohm	100 ± 10 Ohm	28.1
200	30.4 dB/100m	34.8	4.4	19.8	19.0	100 ± 18 Ohm	100 ± 10 Ohm	27.0
250	34.4 dB/100m	32.3		17.8	18.0	100 ± 20 Ohm	100 ± 10 Ohm	26.0
300	38.0 dB/100m	28.1		14.3	18.0	100 ± 20 Ohm	100 ± 10 Ohm	
350	41.4 dB/100m	27.1		12.9	17.0	100 ± 20 Ohm	100 ± 10 Ohm	
400	44.5 dB/100m	26.3		11.8	17.0	100 ± 22 Ohm	100 ± 10 Ohm	
450	47.6 dB/100m	25.5		10.7	17.0	100 ± 22 Ohm	100 ± 10 Ohm	

#### Voltage

<b>UL Voltage Rating</b>
300 V (CMR)

### Mechanical Characteristics

#### Temperature

UL Temperature	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 (13 mm)	2.0 in (51 mm)

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	22 lbs/1000ft

### Standards and Compliance

Environmental Suitability:	Riser, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	UL 1666 Riser, FT4, FT4, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMR
CEC / C(UL) Compliance:	CMR
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
Third Party Performance Verification:	Category 5e
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61156-5
CENELEC Compliance:	Segregation class according EN50174-2 = a
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	1701A

### 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: 0.423 Revision Date: 12-15-2021
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#### Variants

Item #	Color	Putup Type	Length	UPC/EAN
1700A 0101000	Black	Reel	1,000 ft	612825121589
1700A 010U1000	Black	UnReel	1,000 ft	612825121572
1700A 006U1000	Blue	UnReel	1,000 ft	612825121503
1700A 0061640	Blue	Reel	1,640 ft	612825121527
1700A 0063000	Blue	Reel	3,000 ft	

1700A.00305	Gray	Reel	305 m	8719605003881
1700A 008U1000	Gray	UnReel	1,000 ft	612825121534
1700A F2V1000	Gray	Reel	1,000 ft	612825121398
1700A F2VU1000	Gray	UnReel	1,000 ft	612825121381
1700A F2V3000	Gray	Reel	3,000 ft	612825121404
1700A 0051000	Green	Reel	1,000 ft	612825121497
1700A 005U1000	Green	UnReel	1,000 ft	612825121480
1700A 0031000	Orange	Reel	1,000 ft	612825121459
1700A 003U1000	Orange	UnReel	1,000 ft	612825121442
1700A B021000	Purple	Reel	1,000 ft	612825121374
1700A B02U1000	Purple	UnReel	1,000 ft	612825121367
1700A 0021000	Red	Reel	1,000 ft	612825121428
1700A 002U1000	Red	UnReel	1,000 ft	612825121411
1700A 0023000	Red	Reel	3,000 ft	612825121435
1700A 0091000	White	Reel	1,000 ft	612825121558
1700A 009U1000	White	UnReel	1,000 ft	612825121541
1700A 0093000	White	Reel	3,000 ft	612825121565
1700A 004U1000	Yellow	UnReel	1,000 ft	612825121466

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