



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 https://www.belden.com/patents .

Construction Details

Conductor

Size	Stranding	Material	No. 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
--------------	-----

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)
-----------------------------------	--------------------

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
90 Ohm/km (27 Ohm/1000ft)	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) [Ohm]	Max./Min. Fitted Impedance [Ohm]	Min. TCL [dB]	Min. ELTCTL [dB]
1	2.0 dB/100m	69.3	67.3	65.8	20.0	100 ± 12	105 ± 10	40.0	35.0
4	4.0 dB/100m	60.3	56.3	53.8	23.0	100 ± 12	100 ± 10	40.0	23.0
8	5.7 dB/100m	55.8	50.1	47.7	24.5	100 ± 12	100 ± 10	40.0	16.9
10	6.4 dB/100m	54.3	47.9	45.8	25.0	100 ± 12	100 ± 10	40.0	15.0
16	8.1 dB/100m	51.2	43.1	41.7	25.0	100 ± 12	100 ± 10	38.0	10.9
20	9.1 dB/100m	49.8	40.7	39.8	25.0	100 ± 12	100 ± 10	37.0	9.0
25	10.2 dB/100m	48.3	38.2	37.8	25.0	100 ± 15	100 ± 10	36.0	7.0
31.25	11.4 dB/100m	46.9	35.5	35.9	25.0	100 ± 15	100 ± 10	35.1	

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

Voltage

UL Voltage Rating
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:	20 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, 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
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
UK Regulation Compliance:	UKCA Mark
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.
--------	--

History

Update and Revision:	Revision Number: 0.527 Revision Date: 02-03-2025
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC/EAN	Footnote
1700A 0101000	Black	Reel	1,000 ft	612825121589	C
1700A 010U1000	Black	UnReel	1,000 ft	612825121572	

1700A 006U1000	Blue	UnReel	1,000 ft	612825121503	
1700A 0061640	Blue	Reel	1,640 ft	612825121527	C
1700A 0063000	Blue	Reel	3,000 ft		C
1700A.00305	Gray	Reel	305 m	8719605003881	
1700A 008U1000	Gray	UnReel	1,000 ft	612825121534	
1700A F2V1000	Gray	Reel	1,000 ft	612825121398	C
1700A F2VU1000	Gray	UnReel	1,000 ft	612825121381	
1700A F2V3000	Gray	Reel	3,000 ft	612825121404	C
1700A 0051000	Green	Reel	1,000 ft	612825121497	C
1700A 005U1000	Green	UnReel	1,000 ft	612825121480	
1700A 0031000	Orange	Reel	1,000 ft	612825121459	C
1700A 003U1000	Orange	UnReel	1,000 ft	612825121442	
1700A B021000	Purple	Reel	1,000 ft	612825121374	C
1700A B02U1000	Purple	UnReel	1,000 ft	612825121367	
1700A 0021000	Red	Reel	1,000 ft	612825121428	C
1700A 002U1000	Red	UnReel	1,000 ft	612825121411	
1700A 0023000	Red	Reel	3,000 ft	612825121435	C
1700A 0091000	White	Reel	1,000 ft	612825121558	C
1700A 009U1000	White	UnReel	1,000 ft	612825121541	C
1700A 0093000	White	Reel	3,000 ft	612825121565	C
1700A 004U1000	Yellow	UnReel	1,000 ft	612825121466	

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.