




**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 <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
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 Trade Name	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	Flamarrest®	0.195 in (4.95 mm)	Yes
Overall Cable Diameter (Nominal):	0.195 in (4.95 mm)		

### 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	72%

#### 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 (CMP)

## 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:	Plenum, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6, FT6, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 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
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)
Non-Plenum Number:	1700A

## 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: 0.418 Revision Date: 12-15-2021
----------------------	--

## 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

© 2022 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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Multi-Conductor Cables](#) category:*

*Click to view products by [Belden](#) manufacturer:*

Other Similar products are found below :

[000581-000](#) [00100004](#) [00100014](#) [00100024](#) [00100034](#) [0010004](#) [0010005](#) [0010006](#) [0010007](#) [0010008](#) [0010009](#) [0010012](#) [00100214](#)  
[00100224](#) [00100234](#) [00100244](#) [0010025](#) [0010026](#) [0010027](#) [0010028](#) [0010029](#) [0010030](#) [0010031](#) [0010032](#) [0010034](#) [00100414](#) [00100424](#)  
[00100434](#) [00100444](#) [0010045](#) [0010046](#) [0010047](#) [0010049](#) [0010050](#) [0010052](#) [0010053](#) [0010054](#) [0010056](#) [00100634](#) [00100644](#) [00100654](#)  
[00100664](#) [0010068](#) [0010069](#) [0010071](#) [0010072](#) [0010074](#) [0010076](#) [0010086](#) [0010087](#)