



**Product:** [1701LC](#) 

CAT5e+ Horizontal Bonded-Pair, 4pr, UTP, FEP Jkt, CMP-LC

## Product Description

CAT5e+ (350MHz), 4-Bonded-pairs, U/UTP-unshielded, Limited Combustible FHC 25/50, Plenum-CMP, Premise Horizontal cable, 24 AWG solid bare copper conductors, FEP insulation, FEP jacket.

## Technical Specifications

### Product Overview

Suitable Applications:	Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, Noisy Environments
Patent:	This product has one or more applicable patents. More information on patents can be found at <a href="https://www.belden.com/patents">https://www.belden.com/patents</a> .

### Construction Details

#### Conductor

Size	Stranding	Material	No. 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 Shield

Material
No Shield

#### Outer Jacket

Material	Material Trade Name	Nom. Diameter
FEP - Fluorinated Ethylene Propylene	Teflon®	0.187 in

### Electrical Characteristics

#### Electricals

Max. Conductor DCR
90 Ohm/km (27 Ohm/1000ft)

#### Delay

Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
510 ns/100m	25 ns/100m	72%

#### High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1	2	65.3	65.3	63.3	63.3	63.8	60.8	20	100 ± 12 Ohm	105 ± 10 Ohm
4	4	56.3	56.3	52.3	52.3	51.7	48.8	23	100 ± 12 Ohm	100 ± 10 Ohm
8	5.7	51.8	51.8	46.1	46.1	45.7	42.7	24.5	100 ± 12 Ohm	100 ± 10 Ohm
10	6.4	50.3	50.3	43.9	43.9	43.8	40.8	25	100 ± 12 Ohm	100 ± 10 Ohm

16	8.1	47.3	47.3	39.1	39.1	39.7	36.7	25	100 ± 12 Ohm	100 ± 10 Ohm
20	9.2	45.8	45.8	35.2	35.2	37.7	34.7	25	100 ± 12 Ohm	100 ± 10 Ohm
25	10.3	44.3	44.3	34.1	34.1	35.8	32.8	24.3	100 ± 15 Ohm	100 ± 10 Ohm
31.25	11.6	42.9	42.9	31.3	31.3	33.9	30.9	23.6	100 ± 15 Ohm	100 ± 10 Ohm
62.5	16.8	38.4	38.4	21.6	21.6	27.8	24.9	21.5	100 ± 15 Ohm	100 ± 10 Ohm
100	21.7	35.3	35.3	17.1	17.1	23.8	20.8	20.1	100 ± 15 Ohm	100 ± 10 Ohm
155	27.7	32.5	32.5	4.7	4.7	19.9	16.9	19	100 ± 18 Ohm	100 ± 10 Ohm
200	32	30.8	30.8	3	3	17.7	14.7	19	100 ± 18 Ohm	100 ± 10 Ohm
250	36.4	29.3	29.3	0	0	15.8	12.8	18	100 ± 20 Ohm	100 ± 10 Ohm
300	40.5	28.2	28.2			14.2	11.2	18	100 ± 20 Ohm	100 ± 10 Ohm
310	41.3	27.9	27.9			13.9	10.9	18	100 ± 20 Ohm	100 ± 10 Ohm
350	44.3	27.2	27.2			12.9	9.9	17	100 ± 22 Ohm	100 ± 10 Ohm

#### Voltage

<b>UL Voltage Rating</b>
300 V RMS

### Mechanical Characteristics

#### Temperature

<b>Operating</b>
-40°C To +150°C

#### Bend Radius

<b>Stationary Min.</b>	<b>Installation Min.</b>
1 in (25 mm)	1.9 in (48 mm)

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	25 lbs/1000ft (37 kg/km)

### Standards and Compliance

Environmental Suitability:	Plenum
Flammability / Reaction to Fire:	NFPA 262 Plenum Flame Test (UL910),UL723 (NFPA 255)
CPR Compliance:	CPR Euroclass: Fca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA/EIA 568 C.2 Category 5e
ISO/IEC Compliance:	11801 ed 2.1 (2008) Class D
European Directive Compliance:	EU CE Mark, REACH
Plenum Number:	1701A
Non-Plenum Number:	1700A

### Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Jacket sequentially marked at 2 ft. intervals. Third party verified to ANSI/TIA-568-C.2, Category 5e.
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### History

Update and Revision:	Revision Number: 0.314 Revision Date: 09-07-2025
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### Part Numbers

#### Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1701LC 006U1000	Blue	UnReel	1,000 ft	612825121909	
1701LC 0061000	Blue	Reel	1,000 ft	612825121916	C
1701LC 009U1000	White	UnReel	1,000 ft	612825121923	
1701LC 0091000	White	Reel	1,000 ft	612825121930	C

Footnote:	C - CRATE REEL PUT-UP.
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