

ENGLISH MEASUREMENT VERSION

1701LC Multi-Conductor - Enhanced Category 5e Bonded-Pair Cable



For more Information please call





General 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.

Jsage (Overall)	
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
Physical Characteristics (Overall)	
Conductor AWG:	
# Pairs AWG Stranding Conductor Material 4 24 Solid BC - Bare Copper	
Total Number of Conductors:	8
Insulation Insulation Material: Insulation Trade Name Insulation Material Telear	
Teflon® FEP - Fluorinated Ethylene Propylene	
Outer Shield Outer Shield Material: Outer Shield Material Unshielded	
Outer Jacket Outer Jacket Material:	
Outer Jacket Trade Name Outer Jacket Material	
Teflon FEP - Fluorinated Ethylene Propylene	
Outer Jacket Diameter: Nom. Dia. (in.) 0.187	
Pair	
Number Color 1 White/Blue Stripe & Blue 2 White/Orange Stripe & Orange 3 White/Green Stripe & Green 4 White/Brown Stripe & Brown	
lechanical Characteristics (Overall)	
Operating Temperature Range:	-40°C To +150°C
Bulk Cable Weight:	25 lbs/1000 ft.
Max. Recommended Pulling Tension:	40 lbs.
Min. Bend Radius/Minor Axis:	1 in.
Min. Bend/Installation:	1.900 in.
Applicable Specifications and Agency Compliance (O Applicable Standards & Environmental Programs	verall)
NEC/(UL) Specification:	CMP, FHC 25/50
NEC Articles:	800
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes

Detailed Specifications & Technical Data



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EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	Category 5e - TIA 568.C.2
Other Specification:	NEMA WC-63.1 Category 5e, UL Verified to Category 5e
Applicable Patents:	
Country www.belden.com/p	
Flame Test	
UL Flame Test:	NFPA 262 Plenum Flame Test (UL910)(FT6), UL723 (NFPA 255)
CSA Flame Test:	FT6
Plenum/Non-Plenum	
Plenum (Y/N):	Yes
Plenum Number:	1701A
Non-Plenum Number:	1700A
Capacitance (pF/ft) 15	
Maximum Capacitance Unbalance (pF/100 m):	66
Nominal Velocity of Propagation: VP (%) 72	
Maximum Delay: Delay (ns/100 m) 510	
Max. Delay Skew: Delay Skew (ns/100 m) 25	
Maximum Conductor DC Resistance:	
DCR @ 20°C (Ohm/100 m) 9	
Max. Operating Voltage - UL:	
Voltage 300 V RMS	
Maximum DCR Unbalanced:	
DCR Unbalance @ 20°C (%) 3	
Electrical Characteristics-Premise (Overall) Premise Cable Electrical Table 1:	

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)
1	2.0	65.3	65.3	63.3	63.3	20.0
4	4.0	56.3	56.3	52.3	52.3	23.0
8	5.7	51.8	51.8	46.1	46.1	24.5
10	6.4	50.3	50.3	43.9	43.9	25.0
16	8.1	47.3	47.3	39.1	39.1	25.0
20	9.2	45.8	45.8	35.2	35.2	25.0
25	10.3	44.3	44.3	34.1	34.1	24.3
31.25	11.6	42.9	42.9	31.3	31.3	23.6
62.5	16.8	38.4	38.4	21.6	21.6	21.5
100	21.7	35.3	35.3	17.1	17.1	20.1

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155	27.7	32.5	32.5	4.7	4.7	19.0
200	32.0	30.8	30.8	3.0	3.0	19.0
250	36.4	29.3	29.3	>0	>0	18.0
300	40.5	28.2	28.2			18.0
310	41.3	27.9	27.9			18.0
350	44.3	27.2	27.2			17.0

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	105 ± 10	63.8	60.8
4	100 ± 12	100 ± 10	51.7	48.8
8	100 ± 12	100 ± 10	45.7	42.7
10	100 ± 12	100 ± 10	43.8	40.8
16	100 ± 12	100 ± 10	39.7	36.7
20	100 ± 12	100 ± 10	37.7	34.7
25	100 ± 15	100 ± 10	35.8	32.8
31.25	100 ± 15	100 ± 10	33.9	30.9
62.5	100 ± 15	100 ± 10	27.8	24.9
100	100 ± 15	100 ± 10	23.8	20.8
155	100 ± 18	100 ± 10	19.9	16.9
200	100 ± 18	100 ± 10	17.7	14.7
250	100 ± 20	100 ± 10	15.8	12.8
300	100 ± 20	100 ± 10	14.2	11.2
310	100 ± 20	100 ± 10	13.9	10.9
350	100 ± 22	100 ± 10	12.9	9.9

Notes (Overall)

Notes: Belden IBDN. Jacket sequentially marked at 2 ft. intervals. Third party verified to ANSI/TIA-568-C.2, Category 5e.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1701LC 006U1000	1,000 FT	23.000 LB	BLUE, LIGHT		CAT5E+ 4PRB U/UTP LC BOX
1701LC 0061000	1,000 FT	24.000 LB	BLUE, LIGHT	С	CAT5E+ 4PRB U/UTP LC REEL
1701LC 009U1000	1,000 FT	23.000 LB	WHITE		CAT5E+ 4PRB U/UTP LC BOX
1701LC 0091000	1,000 FT	24.000 LB	WHITE	С	CAT5E+ 4PRB U/UTP LC REEL

Notes:

C = CRATE REEL PUT-UP.

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