

1701A Multi-Conductor - Enhanced Category 5E Bonded-Pair Cable



For more Information
please call

1-800-Belden1



Description:

24 AWG Bonded-Pairs, Solid Bare Copper Conductors, FEP insulation, Rip Cord, Flamarrest® PVC jacket.

Usage (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

Insulation

Insulation Material:

Insulation Material
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
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (in.)
0.195

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 0.195 in.

Pair

Pair Color Code Chart:

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Mechanical Characteristics (Overall)

Storage Temperature Range: -20°C To +75°C

Installation Temperature Range: +5°C To +50°C

Operating Temperature Range: -20°C To +75°C

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Bulk Cable Weight:	22 lbs/1000 ft.
Max. Recommended Pulling Tension:	40 lbs.
Min. Bend Radius (Install)/Minor Axis:	1 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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):	01/01/2005
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	Patent
US	5606151
US	5734126

Flame Test

UL Flame Test:	NFPA 262
C(UL) Flame Test:	FT6
CSA Flame Test:	FT6

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Aerial:	No
Suitability - Burial:	No
Sunlight Resistance:	No - Indoor

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	1700A

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)	15
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Maximum Capacitance Unbalance (pF/100 m):	66
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Nominal Velocity of Propagation:

VP (%)	72
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Maximum Delay:

Delay (ns/100 m)	510
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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. PSNEXT (dB)	Min. PSACR (dB)	Min RL (dB)
1	2.000	68.3	66.3	20.000
4	4.000	59.3	55.3	23.000
8	5.700	54.8	49.1	24.500
10	6.400	53.3	46.9	25.000
16	8.100	50.3	42.2	25.000
20	9.100	48.8	39.7	25.000
25	10.200	47.3	37.1	25.000
31.25	11.400	45.9	34.5	25.000
62.5	16.400	41.4	25.0	25.000
100	21.000	38.3	17.3	25.000
155	26.600	35.4	8.8	19.000
200	30.500	33.8	3.3	19.000
250	34.300	32.3	>0	18.000
300	38.000	28.2		18.000
350	41.400	27.2		17.000

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. PSACRF (dB)
1	100 ± 12	105 ± 10	64.8
4	100 ± 12	100 ± 10	52.8
8	100 ± 12	100 ± 10	46.7
10	100 ± 12	100 ± 10	44.8
16	100 ± 12	100 ± 10	40.7
20	100 ± 12	100 ± 10	38.8
25	100 ± 15	100 ± 10	36.8
31.25	100 ± 15	100 ± 10	34.9
62.5	100 ± 15	100 ± 10	28.9
100	100 ± 15	100 ± 10	24.8
155	100 ± 18	100 ± 10	21.0
200	100 ± 20	100 ± 10	18.8
250	100 ± 20	100 ± 10	16.8
300	100 ± 20	100 ± 10	11.2
350	100 ± 22	100 ± 10	9.9

Premise Cable Electrical Table 4:

Frequency (MHz)	Min. TCL (dB)	Min. ELTCTL (dB)
1.000	40.000	35.000
4.000	40.000	23.000
8.000	40.000	16.900
10.000	40.000	15.000
16.000	38.000	10.900
20.000	37.000	9.000
25.000	36.000	7.000

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31.250	35.100	
62.500	32.000	
100.000	30.000	
155.000	28.100	
200.000	27.000	
250.000	26.000	

Notes (Overall)

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

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1701A B02U1000	1,000 FT	23.000 LB	PURPLE		CAT5E+ 4PRB U/UTP CMP BOX
1701A B02I000	1,000 FT	24.000 LB	PURPLE	C	CAT5E+ 4PRB U/UTP CMP REEL
1701A D15U1000	1,000 FT	23.000 LB	BLUE		CAT5E+ 4PRB U/UTP CMP BOX
1701A D153000	3,000 FT	69.000 LB	BLUE	C	CAT5E+ 4PRB U/UTP CMP REEL
1701A 002U1000	1,000 FT	23.000 LB	RED		CAT5E+ 4PRB U/UTP CMP BOX
1701A 002I000	1,000 FT	24.000 LB	RED	C	CAT5E+ 4PRB U/UTP CMP REEL
1701A 003U1000	1,000 FT	23.000 LB	ORANGE		CAT5E+ 4PRB U/UTP CMP BOX
1701A 003I000	1,000 FT	24.000 LB	ORANGE	C	CAT5E+ 4PRB U/UTP CMP REEL
1701A 004U1000	1,000 FT	23.000 LB	YELLOW		CAT5E+ 4PRB U/UTP CMP BOX
1701A 004I000	1,000 FT	24.000 LB	YELLOW	C	CAT5E+ 4PRB U/UTP CMP REEL
1701A 005U1000	1,000 FT	23.000 LB	GREEN, DARK		CAT5E+ 4PRB U/UTP CMP BOX
1701A 005I000	1,000 FT	24.000 LB	GREEN, DARK	C	CAT5E+ 4PRB U/UTP CMP REEL
1701A 008U1000	1,000 FT	23.000 LB	GRAY		CAT5E+ 4PRB U/UTP CMP BOX
1701A 008I000	1,000 FT	24.000 LB	GRAY	C	CAT5E+ 4PRB U/UTP CMP REEL
1701A 009U1000	1,000 FT	23.000 LB	WHITE		CAT5E+ 4PRB U/UTP CMP BOX
1701A 009I000	1,000 FT	24.000 LB	WHITE	C	CAT5E+ 4PRB U/UTP CMP REEL
1701A 010U1000	1,000 FT	23.000 LB	BLACK	C	CAT5E+ 4PRB U/UTP CMP BOX
1701A 010I000	1,000 FT	24.000 LB	BLACK		CAT5E+ 4PRB U/UTP CMP REEL
1701A 877U1000	1,000 FT	23.000 LB	NATURAL		CAT5E+ 4PRB U/UTP CMP BOX
1701A 877I000	1,000 FT	24.000 LB	NATURAL	C	CAT5E+ 4PRB U/UTP CMP REEL
1701A 8773000	3,000 FT	69.000 LB	NATURAL	C	CAT5E+ 4PRB U/UTP CMP REEL

Notes:

C = CRATE REEL PUT-UP.

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