

1700A 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, Non-Plenum, Polyolefin Insulation, Rip Cord, See Color Code Chart (Below), PVC Jacket (Red, Orange, White, Black, Yellow, Green, Blue, Purple, Light Gray or Gray).

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 ^ US Patent #'s 5606151; 5734126, CMR, Riser

Physical Characteristics (Overall)**Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper

Insulation**Insulation Material:**

Insulation Material
PO - Polyolefin

Outer Shield**Outer Shield Material:**

Outer Shield Material
Unshielded

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (mm)
5.131

Outer Jacket Ripcord:

Yes

Overall Cabling**Overall Nominal Diameter:**

5.131 mm

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)**Bulk Cable Weight:**

31.252 Kg/Km

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Max. Recommended Pulling Tension:	177.928 N
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Min. Bend Radius (Install)/Minor Axis:	25.400 mm
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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
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CEC/C(UL) Specification:	CMR
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EU CE Mark:	Yes
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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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Telecommunications Standards:	Category 5e - TIA 568.C.2
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Other Specification:	NEMA WC-63.1 Category 5e, UL Verified to Category 5e
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Applicable Patents:

Country	Patent
US	5606151
US	5734126

Flame Test

UL Flame Test:	UL1666 Vertical Riser
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C(UL) Flame Test:	FT4
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IEC Flame Test:	60332-3-24 (Category C)
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IEEE Flame Test:	1202
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Plenum Number:	1701A
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Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m)
49.215

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

VP (%)
70

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:

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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 ± 18	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
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)

METRIC MEASUREMENT VERSION

1700A Multi-Conductor - Enhanced Category 5E Bonded-Pair Cable

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
1700A B02U1000	305 MT	9.525 KG	PURPLE		CAT5E+ 4PRB U/UTP CMR BOX
1700A B02I000	305 MT	9.979 KG	PURPLE	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A F2VU1000	305 MT	9.525 KG	GRAY, DEC		CAT5E+ 4PRB U/UTP CMR BOX
1700A F2V1000	305 MT	9.979 KG	GRAY, DEC	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A F2V3000	914 MT	28.576 KG	GRAY, DEC	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A 002U1000	305 MT	9.525 KG	RED		CAT5E+ 4PRB U/UTP CMR BOX
1700A 002I000	305 MT	9.979 KG	RED	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A 0023000	914 MT	28.576 KG	RED	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A 003U1000	305 MT	9.525 KG	ORANGE		CAT5E+ 4PRB U/UTP CMR BOX
1700A 003I000	305 MT	9.979 KG	ORANGE	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A 004U1000	305 MT	9.525 KG	YELLOW		CAT5E+ 4PRB U/UTP CMR BOX
1700A 004I000	305 MT	9.979 KG	YELLOW	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A 005U1000	305 MT	9.525 KG	GREEN, DARK		CAT5E+ 4PRB U/UTP CMR BOX
1700A 005I000	305 MT	9.979 KG	GREEN, DARK	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A 006U1000	305 MT	9.525 KG	BLUE, LIGHT		CAT5E+ 4PRB U/UTP CMR BOX
1700A 006I000	305 MT	9.979 KG	BLUE, LIGHT	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A 0061640	500 MT	16.366 KG	BLUE, LIGHT	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A 0063000	914 MT	28.576 KG	BLUE, LIGHT	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A 008U1000	305 MT	9.525 KG	GRAY		CAT5E+ 4PRB U/UTP CMR BOX
1700A 009U1000	305 MT	9.525 KG	WHITE	C	CAT5E+ 4PRB U/UTP CMR BOX
1700A 009I000	305 MT	9.979 KG	WHITE	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A 0093000	914 MT	28.576 KG	WHITE	C	CAT5E+ 4PRB U/UTP CMR REEL
1700A 010U1000	305 MT	9.525 KG	BLACK		CAT5E+ 4PRB U/UTP CMR BOX
1700A 010I000	305 MT	9.979 KG	BLACK	C	CAT5E+ 4PRB U/UTP CMR REEL

Notes:

C = CRATE REEL PUT-UP.

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