

ENGLISH MEASUREMENT VERSION

11700A Multi-Conductor - Category 5e DataTuff® Twisted Pair Cable



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White/Green Stripe & Green

White/Brown Stripe & Brown

For more Information please call

1-800-Belden1



Description: 24 AWG Bonded-Pairs solid bare copper conductors, polyolefin insulation, PVC inner jacket, rip cord, industrial grade sunlight- and oil-resistant PVC outer jacket. Sequential marking at two foot intervals. **Usage (Overall)** Suitable Applications: Industrial Ethernet Cable, Harsh Environments, EtherNet/IP™, 350MHz Enhanced Category 5e, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, CMX - Outdoor, RJ-45 Compatible, Extra Protection **Physical Characteristics (Overall)** Conductor AWG: # Pairs AWG Stranding Conductor Material Dia. (in.) BC - Bare Copper Solid 24 .020 Insulation Insulation Material: Insulation Material Wall Thickness (in.) Dia. (in.) PO - Polyolefin .009 .035 **Inner Jacket Inner Jacket Material:** Inner Jacket Material Nom. Dia. (in.) PVC - Polyvinyl Chloride .200 Inner Jacket Ripcord: Yes **Outer Shield Outer Shield Material: Outer Shield Material** Unshielded **Outer Jacket Outer Jacket Material: Outer Jacket Material** Nom. Wall Thickness (in.) Industrial Grade PVC - Polyvinyl Chloride .035 **Outer Jacket Ripcord:** Yes **Overall Cabling Overall Nominal Diameter:** 0.285 in. Pair Pair Color Code Chart: Number Color White/Blue Stripe & Blue 1 2 White/Orange Stripe & Orange



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echanical Characteristics (Overall)	
Storage Temperature Range:	-40°C To +85°C
Installation Temperature Range:	-25°C To +75°C
Operating Temperature Range:	-40°C To +75°C
Bulk Cable Weight:	35 lbs/1000 ft.
Max. Recommended Pulling Tension:	40 lbs.
Min. Bend Radius (Install)/Minor Axis:	0.290 in.
plicable Specifications and Agency Con	npliance (Overall)
pplicable Standards & Environmental Progra	• • •
NEC/(UL) Specification:	CMR, CMX-Outdoor, UL444
CEC/C(UL) Specification:	CMR
Other Standards:	11801 Category 5
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
PMSHA Specification:	P-07-KA060005
Telecommunications Standards:	568-B.2 Category 5e
Other Specification:	NEMA WC-63.1 Category 5e, Ethernet/IP™ compliant, UL verified to Category 5e
lame Test	
UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4
uitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	Yes
lenum/Non-Plenum	
Plenum (Y/N):	No
ectrical Characteristics (Overall)	
om. Mutual Capacitance:	
Capacitance (pF/ft) 15	
ominal Velocity of Propagation:	
VP (%) 70	
Maximum Capacitance Unbalance (pF/100 m):	66
aximum Delay: Delay (ns/100 m)	
510	





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Max. Delay Skew:

Delay Skew (ns/100 m)

25

Maximum Conductor DC Resistance:



Max. Operating Voltage - UL:

Voltage 300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)

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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
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	>0	>0	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	48.7
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	24.8
100	100 ± 15	100 ± 10	23.8	20.8
155	100 ± 18	100 ± 10	19.9	16.9
200	100 ± 20	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: US Patent #'s 5, 606, 151; 5, 734, 126. EtherNet/IP is a trademark of ControlNet International, Ltd. under license by Open DeviceNet Vendor Association, Inc. Operating temperatures are subject to length de-rating. Cable passes -40C Cold Bend per UL 1581. Outer Shield Separator Material: Polyester.

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Item #	Putup	Ship Weight	Color	Notes	Item Desc
11700A 0021000	1,000 FT	39.000 LB	RED	С	4 PR #24 PP FRPVC PVC
11700A 0061000	1,000 FT	39.000 LB	BLUE, LIGHT	С	4 PR #24 PP FR PVC PVC
11700A 0081000	1,000 FT	39.000 LB	GRAY	С	4 PR #24 PP FR PVC PVC
11700A 0101000	1,000 FT	39.000 LB	BLACK	С	4 PR #24 PP FR PVC PVC
11700A 0103000	3,000 FT	117.000 LB	BLACK	С	4 PR #24 PP FR PVC PVC
11700A 1NH1000	1,000 FT	39.000 LB	TEAL 1NH	С	4 PR #24 PP FRPVC PVC

Notes:

C = CRATE REEL PUT-UP.

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