

METRIC MEASUREMENT VERSION



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

For more Information please call

1-800-Belden1



Description:

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White/Brown Stripe & Brown

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.

Jsage (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	a. (mm)
4 24 Solid BC - Bare Copper 0.5	508
Total Number of Conductors:	8
Insulation	
Insulation Material:	
Insulation Material Wall Thickness (mm) Dia. (m	nm)
PO - Polyolefin 0.2286 0.889	
Inner Jacket	
Inner Jacket Material:	
Inner Jacket Material Nom. Dia. (mm)	
PVC - Polyvinyl Chloride 5.08	
Inner Jacket Ripcord:	Yes
Outer Shield	
Outer Shield Material:	
Outer Shield Material	
Unshielded	
Outer Jacket	
Outer Jacket Material:	
Outer Jacket Material Nom. W	/all Thickness (mm)
Industrial Grade PVC - Polyvinyl Chloride 0.889	
Outer Jacket Ripcord:	Yes
Overall Cable	
Overall Nominal Diameter:	7.239 mm
Pair Pair Color Code Chart:	
Number Color	
1 White/Blue Stripe & Blue	
2 White/Orange Stripe & Orange	
3 White/Green Stripe & Green	



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lechanical 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:	52.087 Kg/Km		
Max. Recommended Pulling Tension:	177.928 N		
Min. Bend Radius/Minor Axis:	7.366 mm		
pplicable Specifications and Agency Com			
Applicable Standards & Environmental Program NEC/(UL) Specification:	ms 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		
Flame Test			
UL Flame Test:	UL1666 Riser		
CSA Flame Test:	FT4		
Suitability			
Suitability - Indoor:	Yes		
Suitability - Outdoor:	Yes		
Sunlight Resistance:	Yes		
Oil Resistance:	Yes		
Plenum/Non-Plenum			
Plenum (Y/N):	No		
lectrical Characteristics (Overall)			
Nom. Mutual Capacitance:			
Capacitance (pF/m) 49.215			
Maximum Capacitance Unbalance (pF/100 m):	66		
Nominal Velocity of Propagation: VP (%) 70			
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)

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
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	305 MT	17.690 KG	RED	С	4 PR #24 PP FRPVC PVC
11700A 0061000	305 MT	17.690 KG	BLUE, LIGHT	С	4 PR #24 PP FR PVC PVC
11700A 0081000	305 MT	17.690 KG	GRAY	С	4 PR #24 PP FR PVC PVC
11700A 0101000	305 MT	17.690 KG	BLACK	С	4 PR #24 PP FR PVC PVC
11700A 0103000	914 MT	51.710 KG	BLACK	С	4 PR #24 PP FR PVC PVC
11700A 1NH1000	305 MT	17.690 KG	TEAL 1NH	С	4 PR #24 PP FRPVC PVC

Notes:

C = CRATE REEL PUT-UP.

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