

ENGLISH MEASUREMENT VERSION

7928A Multi-Conductor - Category 5e DataTuff® Twisted Pair Cable



For more Information please call

1-800-Belden1



General Description:

24 AWG Bonded-Pair solid bare copper conductors, FEP insulation, sunlight-, oil- and gas-resistant FEP jacket. Sequential marking at two foot intervals.

Industrial Ethernet Cable, Harsh Environments, 350MHz Enhanced Category 5e, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, RJ-45 Compatible, High and Low Temperature, Oil and Gasoline Exposure, Limited Combustible FHC 25/50
8
lia. (in.) .036
0.187 in.
-70°C To +150°C
-55°C To +150°C
-70°C To +150°C
25 lbs/1000 ft.
40 lbs.
0.250 in.
0.250 in. re (Overall)
0.250 in. c (Overall) CMP, FHC 25/50
0.250 in. re (Overall)

Detailed Specifications & Technical Data



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Other Standards:	ISO/IEC 11801 ed 2.1 (2008) Class D			
EU Directive 2000/53/EC (ELV):	Yes			
EU Directive 2002/95/EC (RoHS):	Yes			
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005			
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, Ethernet/IP™ Compliant			
Flame Test				
UL Flame Test:	NFPA 262, UL723 (NFPA 255)			
CSA Flame Test:	FT6			
Plenum/Non-Plenum				
Plenum (Y/N):	Yes			
15 Maximum Capacitance Unbalance (pF/100 m): 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 (%)	66			
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	23.6
8	5.7	51.8	51.8	46.1	46.1	25.4
10	6.4	50.3	50.3	43.9	43.9	26.0
16	8.1	47.3	47.3	39.1	39.1	26.0
20	9.2	45.8	45.8	35.2	35.2	26.0
25	10.3	44.3	44.3	34.1	34.1	25.5
31.25	11.6	42.9	42.9	31.3	31.3	25.0
62.5	16.8	38.4	38.4	21.6	21.6	23.5
100	21.7	35.3	35.3	17.1	17.1	22.5
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:

Detailed Specifications & Technical Data



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Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	95-110	63.8	60.8
4	100 ± 12	95-110	51.7	48.7
8	100 ± 12	95-107	45.7	42.7
10	100 ± 12	95-107	43.8	40.8
16	100 ± 12	95-107	39.7	36.7
20	100 ± 12	95-107	37.7	34.7
25	100 ± 15	95-107	35.8	32.8
31.25	100 ± 15	95-107	33.9	30.9
62.5	100 ± 15	95-107	27.8	24.8
100	100 ± 15	95-107	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 -70C Cold Bend per UL 1581.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7928A 0101000	1,000 FT	24.000 LB	BLACK		4 PR #24 FEP FEP
7928A 0105000	5,000 FT	120.000 LB	BLACK		4 PR #24 FEP FEP

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