

METRIC MEASUREMENT VERSION



7923A Multi-Conductor - Category 5e DataTuff® Twisted Pair Cable

For more Information please call

1-800-Belden1



General Description:

24 AWG Bonded-Pairs solid bare copper conductors, polyolefin insulation, industrial grade sunlight- and oil-resistant PVC jacket, rip cord. Sequential marking at two foot intervals.

Usage (Overall)

Suitable Applications:

Bulk Cable Weight:

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

Physical Characteristics (Overall) Conductor

Conductor AWG:	
Pairs AWG Stranding Conductor Material Dia. ((mm)
4 24 Solid BC - Bare Copper 0.508	
Total Number of Conductors:	8
nsulation	
Insulation Material:	
Insulation Material Wall Thickness (mm) Dia. (mm	ນ
PO - Polyolefin 0.2286 0.889	
Outer Shield Outer Shield Material: Outer Shield Material Unshielded	
Outer Jacket Outer Jacket Material:	
Outer Jacket Material	
Industrial Grade PVC - Polyvinyl Chloride	
Outer Jacket Ripcord:	Yes
Overall Cable	
Overall Nominal Diameter:	5.842 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	
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

37.205 Kg/Km



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177.928 N
63.500 mm
npliance (Overall)
ms
CMR, CMX-Outdoor, UL444
CMR
Yes
Yes
Yes
01/01/2004
Yes
Yes
Yes
Yes
P-07-KA060003
NEMA WC-63.1 Category 5e, UL verified to Category 5e, Ethernet/IP™ Compliant
UL1666 Riser
FT4
1202
Vez
Yes
Yes
Yes
Νο
66



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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	23.6
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:

Freq. (MHz) Input (Unfitted) Imp. (Ohms) Fitted Impedance Min. ELFEXT (dB) Min. PSELFEXT (dB)

1 10q. (mi12)	input (onnitiou) imp. (onnis)	r med impedance		
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 -40C Cold Bend per UL 1581.

Notes (Cont'd.):

T568A Plug Compatible Part Number: R301603 T568B Plug Compatible Part Number: R301604

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7923A 0021000	1,000 FT	28.000 LB	RED	С	4 PR #24 PP PVC
7923A 0061000	1,000 FT	28.000 LB	BLUE, LIGHT	С	4 PR #24 PP PVC
7923A 0081000	1,000 FT	28.000 LB	GRAY	С	4 PR #24 PP PVC
7923A 0101000	1,000 FT	28.000 LB	BLACK	С	4 PR #24 PP PVC
7923A 0102000	2,000 FT	54.000 LB	BLACK	С	4 PR #24 PP PVC



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7923A 1NH1000	1,000 FT	28.000 LB	TEAL 1NH	C	4 PR #24 PP PVC	

Notes:

C = CRATE REEL PUT-UP.

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