

METRIC MEASUREMENT VERSION

7930A Multi-Conductor - Category 5e DataTuff® Twisted Pair Cable



For more Information please call

1-800-Belden1



General Description:

Bulk Cable Weight:

Max. Recommended Pulling Tension:

24 AWG stranded (7x32) bare copper conductors, twisted pairs, polyolefin insulation, industrial grade sunlight- and oil-resistant PVC jacket. Sequential marking at two foot intervals.

Usage (Overall) Suitable Applications: Industrial Ethernet, Harsh Environments, Flexible Applications, 200MHz Category 5e, Industrial Patch Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, CMX - Outdoor, RJ-45 Compatible **Physical Characteristics (Overall)** Conductor AWG: # Pairs AWG Stranding Conductor Material BC - Bare Copper 1 24 7x32 8 **Total Number of Conductors:** Insulation **Insulation Material: Insulation Material** PO - Polyolefin **Outer Shield Outer Shield Material: Outer Shield Material** Unshielded **Outer Jacket Outer Jacket Material: Outer Jacket Material** Nom. Wall Thickness (mm) Industrial Grade PVC - Polyvinyl Chloride 0.762 **Overall Cable Overall Nominal Diameter:** 6.096 mm Pair Pair Color Code Chart: Number Color White/Blue Stripe & Blue 1 2 White/Orange Stripe & Orange 3 White/Green Stripe & Green 4 White/Brown Stripe & Brown **Mechanical Characteristics (Overall)** Installation Temperature Range: -10°C To +75°C **Operating Temperature Range:** -25°C To +75°C

38.693 Kg/Km

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Detailed Specifications & Technical Data



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Min. Bend Radius/Minor Axis:	24.384 mm
Applicable Specifications and Agency Com	npliance (Overall)
Applicable Standards & Environmental Program	
NEC/(UL) Specification:	CMR, CMX-Outdoor, UL444
CEC/C(UL) Specification:	CMR
EU Directive 2011/65/EU (ROHS II):	Yes
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
Other Specification:	NEMA WC-63.1 Category 5e Patch, ICEA 661 Category 5 Patch, UL verified to Category 5e
Flame Test	
UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4
IEEE Flame Test:	1202
Suitability	
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	Yes
Plenum/Non-Plenum	
Plenum (Y/N):	No
Electrical Characteristics (Overall)	
Nom. Mutual Capacitance: Capacitance (pF/m)	
49.215	
Maximum Capacitance Unbalance (pF/100 m):	330
Nominal Velocity of Propagation: VP (%) 69	
Maximum Delay: Delay (ns/100 m) 510 @ 100MHz	
Typical Delay Skew: Delay Skew (ns/m) 39.372	
Max. Delay Skew:	
Delay Skew (ns/100 m) 45	
Maximum Conductor DC Resistance: DCR @ 20°C (Ohm/100 m) 9.38	

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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)	Min. SRL (dB)
1	2.5	65.3	62.3	62.8	59.8	20.0	23.0
4	4.9	56.3	53.3	51.4	48.4	23.0	23.0
8	6.9	51.8	48.8	44.9	41.9	24.5	24.5
10	7.8	50.3	47.3	42.5	39.5	25.0	25.0
16	9.9	47.3	44.3	37.4	34.4	25.0	25.0
20	11.1	45.8	42.8	34.7	31.7	25.0	25.0
25	12.5	44.3	41.3	21.8	28.8	24.3	24.3
31.25	14.1	42.9	39.9	28.8	25.8	23.6	23.6
62.5	20.4	38.4	35.4	18.0	15.0	21.5	21.5
100	26.4	35.3	32.3	8.9	5.9	20.1	20.1
155	33.7	32.5	29.5			15.8	
200	38.9	30.8	27.8			15.0	

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	63.8	60.8
4	100 ± 15	100 ± 15	51.7	48.7
8	100 ± 15	100 ± 15	45.7	42.7
10	100 ± 15	100 ± 15	43.8	40.8
16	100 ± 15	100 ± 15	39.7	36.7
20	100 ± 15	100 ± 15	37.7	34.7
25	100 ± 15	100 ± 15	35.8	32.8
31.25	100 ± 15	100 ± 15	33.9	30.9
62.5	100 ± 15	100 ± 15	27.8	24.8
100	100 ± 15	100 ± 15	23.8	20.8
155	100 ± 25	100 ± 15	19.9	16.9
200	100 ± 25	100 ± 15	17.7	14.7

Notes (Overall)

Notes: Operating temperatures are subject to length de-rating. Cable passes -25C Cold Bend per UL 1581.

Notes (Cont'd.):	T568A Plug Compatible Part Number: R301603 T568B Plug Compatible Part Number: R301604
	Number: Not 1004

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7930A 0101000	1,000 FT	29.000 LB	BLACK	С	4 PR #24 PP PVC
7930A 0102000	2,000 FT	56.000 LB	BLACK	С	4 PR #24 PP PVC

Notes:

C = CRATE REEL PUT-UP.

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