

METRIC MEASUREMENT VERSION

### 7918A Multi-Conductor - Category 5e DataTuff® Twisted Pair Cable



For more Information please call

1-800-Belden1



### **General Description:**

Max. Recommended Pulling Tension:

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

#### **Usage (Overall)** Suitable Applications: Industrial Ethernet, Harsh Environments, 200MHz 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 AWG: # Pairs AWG Stranding Conductor Material 4 Solid BC - Bare Copper 24 **Total Number of Conductors:** 8 Insulation **Insulation Material:** Insulation Material PO - Polyolefin **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 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: -20°C To +75°C -40°C To +75°C **Operating Temperature Range: Bulk Cable Weight:** 35.717 Kg/Km

155.687 N

# **Detailed Specifications & Technical Data**



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DCR @ 20°C (Ohm/100 m)

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Min. Bend Radius/Minor Axis:	12.700 mm
Applicable Specifications and Agency Com	npliance (Overall)
Applicable Standards & Environmental Program	
NEC/(UL) Specification:	CMR, CMX-Outdoor
CEC/C(UL) Specification:	CMG
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	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
PMSHA Specification:	P-07-KA060003
Other Specification:	NEMA WC-63.1 Category 5e, UL verified to Category 5e
Applicable Patents: Country www.belden.com/p	
Flame Test	
UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4
IEEE Flame Test:	1202
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 (%) 68	
Maximum Delay: Delay (ns/100 m) 510 @ 100MHz	
Max. Delay Skew:	
Delay Skew (ns/100 m) 45 Maximum Conductor DC Resistance:	

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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	2.0	65.3	62.3	63.0	60.0	20.0	23
4	4.1	56.3	53.3	51.0	49.0	23.0	23.0
8	5.8	51.8	48.8	46.0	43.0	24.5	24.5
10	6.5	50.3	47.3	43.0	41.0	25.0	25.0
16	8.2	47.3	44.3	39.0	36.0	25.0	25.0
20	9.3	45.8	42.8	36.5	33.5	25.0	25.0
25	10.4	44.3	41.3	33.9	30.9	24.3	24.3
31.25	11.7	42.9	39.9	31.0	28.0	23.6	23.6
62.5	17.0	38.4	35.4	22.0	19.0	21.5	21.5
100	22.0	35.3	32.3	14.0	11.0	20.1	20.1
155	28.1	32.5	29.5	4.4	1.4	15.8	
200	32.0	30.8	27.8	4.0	1.0	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 -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
7918A 0061000	1,000 FT	26.000 LB	BLUE, LIGHT	С	4 PR #24 PO PVC
7918A 0101000	1,000 FT	26.000 LB	BLACK	С	4 PR #24 PO PVC
7918A 01010000	10,000 FT	250.000 LB	BLACK	С	4 PR #24 PO PVC
7918A 0102000	2,000 FT	50.000 LB	BLACK	С	4 PR #24 PO PVC

#### Notes:

C = CRATE REEL PUT-UP.



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