

7958A Multi-Conductor - Category 5e DataTuff® 600V AWM Rated Twisted Pair Cable

For more Information
please call

1-800-Belden1

**Description:**

24 AWG Bonded-Pairs solid bare copper conductors, polyolefin insulation, overall Beldfoil® shield (100% coverage), industrial grade sunlight- and oil-resistant PVC jacket, drain wire, rip cord. Sequential marking at two foot intervals

Usage (Overall)**Suitable Applications:**

Industrial Ethernet Cable, Harsh Environments, 200MHz Category 5e, Industrial Ethernet, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, Noisy Environments, CMX - Outdoor, RJ-45 Compatible*

Physical Characteristics (Overall)**Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper

Insulation**Insulation Material:**

Insulation Material	Wall Thickness (in.)
PO - Polyolefin	.010

Outer Shield**Outer Shield Material:**

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire	Conductor Material
24	7x32	TC - Tinned Copper	

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Ripcord:

No

Overall Cable**Overall Nominal Diameter:**

0.265 in.

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

Mechanical Characteristics (Overall)**Installation Temperature Range:**

-25°C To +75°C

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Operating Temperature Range:	-40°C To +75°C
Bulk Cable Weight:	32 lbs/1000 ft.
Max. Recommended Pulling Tension:	35 lbs.
Min. Bend Radius (Install)/Minor Axis:	0.500 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

CEC/C(UL) Specification:	CMR
AWM Specification:	UL Style 21047
Other Standards:	TIA 1005
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, EtherNet/IP Compliant

Flame Test

UL Flame Test:	UL1666 Riser
CSA Flame Test:	FT4

Suitability

Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)**Nom. Mutual Capacitance:**

Capacitance (pF/ft)

15

Maximum Capacitance Unbalance (pF/100 m):	150
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Nominal Velocity of Propagation:

VP (%)

70

Maximum Delay:

Delay (ns/100 m)

538 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m)

45

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

9.38

7958A Multi-Conductor - Category 5e DataTuff® 600V AWM Rated Twisted Pair Cable**Max. Operating Voltage - UL:**

Voltage	Description
300 V RMS	
600 V RMS	Appliance Wiring Material

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)	Min. SRL (dB)
1	2.000	65.3	62.3	63.0	60.0	20.000	20.0
4	4.100	56.3	53.3	51.0	49.0	23.600	23.6
8	5.800	51.8	48.8	46.0	43.0	25.400	25.4
10	6.500	50.3	47.3	43.0	41.0	26.000	26.0
16	8.200	47.3	44.3	39.0	36.0	26.000	26.0
20	9.300	45.8	42.8	36.5	33.5	26.000	26.0
25	10.400	44.3	41.3	33.9	30.9	25.500	25.5
31.25	11.700	42.9	39.9	31.0	28.0	25.000	25.0
62.5	17.000	38.4	35.4	22.0	19.0	23.500	23.5
100	22.000	35.3	32.3	14.0	11.0	22.500	22.5
200	32.400		27.8		1.0		

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
200	100 ± 25			14.7

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 Vender Association, Inc. Operating temperatures are subject to length de-rating. Cable passes -40C Cold Bend per UL 1581. *Special RJ45 plug required. See WWW. BELDEN.COM - Tools - Connector Cross Reference. Not intended for 600 V electrical power delivery.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7958A 0061000	1,000 FT	37.000 LB	BLUE, LIGHT	C	4 PR #24 PP FS FRPVC
7958A 0101000	1,000 FT	37.000 LB	BLACK	C	4 PR #24 PP FS FRPVC
7958A 0102000	2,000 FT	68.000 LB	BLACK		4 PR #24 PP FS FRPVC
7958A 1NH1000	1,000 FT	37.000 LB	TEAL 1NH	C	4 PR #24 PP FS FRPVC

Notes:

C = CRATE REEL PUT-UP.

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