

ENGLISH MEASUREMENT VERSION

7921A 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, overall Beldfoil® (100%coverage) plus tinned copper braid shield (70% coverage), drain wire, industrial grade sunlight- and oil-resistant PVC jacket. Seq. marking at 2 ft. intervals

sage (Overall)								
				Industrial Ethernet, Harsh Environments, Category 5e, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, Noisy Environments, CMX - Outdoor, EtherNet/IP™				
nysical Characteristics (Over	rall)							
onductor AWG:								
# Pairs AWG Stranding Conduct	tor Mater	ial						
	e Copper							
Total Number of Conductors:			8					
sulation								
Insulation Material:								
Insulation MaterialWall ThicknesPO - Polyolefin0.012		i a. (in.) 046						
	0.	U+U						
Outer Shield Outer Shield Material:								
Layer # Outer Shield Trade Name	Type C	Outer Shield Material	C	Coverage (%)				
1 Beldfoil®	Tape A	luminum Foil-Polyester	Tape 1	100.000				
2	Braid T	C - Tinned Copper	7	70.000				
Outer Shield Drain Wire AWG:								
AWG Stranding Drain Wire Cond		iterial						
		iterial						
AWG Stranding Drain Wire Cond 26 Solid TC - Tinned Copp	oer No	om. Wall Thickness (in	1.)					
AWG Stranding Drain Wire Cond 26 Solid TC - Tinned Copp Duter Jacket Outer Jacket Material: Outer Jacket Material	oer No	om. Wall Thickness (in	ı.)					
AWG Stranding Drain Wire Cond 26 Solid TC - Tinned Copp Puter Jacket Outer Jacket Material: Outer Jacket Material: Industrial Grade PVC - Polyvinyl Ch	oer No	om. Wall Thickness (in	0.33	10 in.				
AWG Stranding Drain Wire Cond 26 Solid TC - Tinned Copp Duter Jacket Outer Jacket Material: Outer Jacket Material: Industrial Grade PVC - Polyvinyl Ch Overall Cable Overall Nominal Diameter:	oer No	om. Wall Thickness (in		0 in.				
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AWG Stranding Drain Wire Cond 26 Solid TC - Tinned Copr 20 TC - Tinned Copr Outer Jacket Material: Outer Jacket Material Outer Jacket Material Industrial Grade PVC - Polyvinyl Ch Overall Cable Overall Nominal Diameter: Overall Color 1 White/Blue Stripe & Blue 2 White/Green Stripe & Gree 4 White/Brown Stripe & Brow 3 Storage Temperature Range: Installation Temperature Range:	Noter Notes	om. Wall Thickness (in	0.33(-40°(-25°(-40°(C To +80°C C To +75°C				
AWG Stranding Drain Wire Cond 26 Solid TC - Tinned Copp Puter Jacket Outer Jacket Material: Outer Jacket Material: Outer Jacket Material: Industrial Grade PVC - Polyvinyl Ch Overall Cable Overall Nominal Diameter: Overall Color Code Chart: Industrial Grade PVC - Polyvinyl Ch Number Color 1 1 White/Blue Stripe & Blue 2 White/Orange Stripe & Ora 3 White/Orange Stripe & Greet 4 White/Brown Stripe & Brow echanical Characteristics (O Storage Temperature Range: Installation Temperature Range: Operating Temperature Range:	oer No loride 0. ange en wn verall)	om. Wall Thickness (in	0.33(-40°(-25°(-40°(C To +80°C C To +75°C C To +75°C Dos/1000 ft.				

Detailed Specifications & Technical Data



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pplicable Standards & Environmental Programs	CMP, CMV Outdoor
NEC/(UL) Specification:	CMR, CMX-Outdoor
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
Telecommunications Standards:	Category 5e - TIA 568.C.2
Other Specification:	NEMA WC-63.1 Category 5e, EtherNet/IP™ Compliant
Applicable Patents:	
Country www.belden.com/p	
ame Test UL Flame Test:	UL1666 Vertical Riser
CSA Flame Test:	FT4
IEEE Flame Test:	1202
	1202
uitability Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes
Oil Resistance:	Yes
	Tes
lenum/Non-Plenum Plenum (Y/N):	Νο
	····
ectrical Characteristics (Overall) om. Mutual Capacitance:	
Capacitance (pF/ft) 15	
Maximum Capacitance Unbalance (pF/100 m):	150
ominal Velocity of Propagation:	
VP (%)	
aximum Delay: Delay (ns/100 m)	
538 @ 100MHz	
ax. Delay Skew:	
Delay Skew (ns/100 m) 45	
aximum Conductor DC Resistance:	
DCR @ 20°C (Ohm/100 m) 9.38	
ax. Operating Voltage - UL: Voltage 300 V RMS	
aximum DCR Unbalanced:	
DCR Unbalance @ 20°C (%)	
3	
3 Cectrical Characteristics-Premise (Overall) emise Cable Electrical Table 1:	

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4	4.1	56.3	53.3	51.0	49.0	23.6	23.6
8	5.8	51.8	48.8	46.0	43.0	25.4	25.4
10	6.5	50.3	47.3	43.0	41.0	26.0	26.0
16	8.2	47.3	44.3	39.0	36.0	26.0	26.0
20	9.3	45.8	42.8	36.5	33.5	26.0	26.0
25	10.4	44.3	41.3	33.9	30.9	25.5	25.5
31.25	11.7	42.9	39.9	31.0	28.0	25.0	25.0
62.5	17.0	38.4	35.4	22.0	19.0	23.5	23.5
100	22.0	35.3	32.3	14.0	11.0	22.5	22.5

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	95-110	63.8	60.8
4	100 ± 15	95-110	51.7	48.7
8	100 ± 15	95-107	45.7	42.7
10	100 ± 15	95-107	43.8	40.8
16	100 ± 15	95-107	39.7	36.7
20	100 ± 15	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

Notes (Overall)

Notes: US Patent #'s 5606151; 5734126. 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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7921A 0021000	1,000 FT	54.000 LB	RED	С	4 PR #24 PP SH PVC
7921A 0061000	1,000 FT	21.000 LB	BLUE, LIGHT	С	4 PR #24 PP SH PVC
7921A 0101000	1,000 FT	54.000 LB	BLACK	С	4 PR #24 PP SH PVC
7921A 0102000	2,000 FT	106.000 LB	BLACK	С	4 PR #24 PP SH PVC
7921A 1NH1000	1,000 FT	54.000 LB	TEAL 1NH	С	4 PR #24 PP SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 7 Revision Date: 05-30-2014

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