



Part Number: 7921A

Cat 5e Heavy Shielded DataTuff®, (4 pr) 24 AWG Solid BC, PO/PVC, Foil+TC Braid Shld, CMR, CMX-Outdoor

Product Description

Four Cat 5e 24 AWG Bonded-Pairs solid bare copper conductors, polyolefin insulation, overall Beldfoil® (100%coverage) plus tinned copper braid shield (70% coverage), PVC jacket.

Product Specifications

AG.Filter Attributes

Total Number of Conductors:	8
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Application

Suitable Applications:	Industrial Ethernet Cable, 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™
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Technical Specifications

AG_0401

UL Flammability:	UL1666 Vertical Riser
CSA Flammability:	FT4

APAC Standard

MII Order #39 (China RoHS):	Yes
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Applicable Patents

Patent:	http://www.belden.com/p
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Bend Radius

Min Bend Radius/Minor Axis:	1.32 in
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CCB-Sub-Part Number

Plenum (Y/N):	No
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Contact Information

PHONE_NUM:	1-800-Belden1
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EU Directive

EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
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Global Standard

Telecommunications Standards:	Telecommunications Standards
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ISO/IEC Compliance:	Other Standards
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North American Standard

CA Prop 65 (CJ for Wire & Cable):	Yes
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CEC/C(UL) Specification:	CMR
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NEC/(UL) Specification:	CMR, CMX-Outdoor
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Other Specification:	Other Specification
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Unused Attributes

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.
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Use

Suitability - Oil Resistance:	Yes
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Suitability - Outdoor:	Yes
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Suitability - Sunlight Resistance:	Yes
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Max Recommended Pulling Tension:	75 lbs
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Conductor DCR:

Max. Conductor DCR	Max. DCR Unbalance
9.38 Ohm/1000ft	3 %

Color Chart 1:

Number	Color
1	White/Blue Stripe & Blue
2	White/Orange Stripe & Orange
3	White/Green Stripe & Green
4	White/Brown Stripe & Brown

Delay:

Max. Delay	Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
538 ns/100m	45 ns/100m	70 %

Voltage:

UL Voltage Rating
300 V RMS V

High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. SRL (Structural Return Loss)	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2 dB/100m	65.3 dB	62.3 dB	63 dB	60 dB	63.8 dB	60.8 dB	20 dB	20 dB	100 ± 15 Ohm	
4 MHz	4.1 dB/100m	56.3 dB	53.3 dB	51 dB	49 dB	51.7 dB	48.7 dB	23.6 dB	23.6 dB	100 ± 15 Ohm	
8 MHz	5.8 dB/100m	51.8 dB	48.8 dB	46 dB	43 dB	45.7 dB	42.7 dB	25.4 dB	25.4 dB	100 ± 15 Ohm	
10 MHz	6.5 dB/100m	50.3 dB	47.3 dB	43 dB	41 dB	43.8 dB	40.8 dB	26 dB	26 dB	100 ± 15 Ohm	
16 MHz	8.2 dB/100m	47.3 dB	44.3 dB	39 dB	36 dB	39.7 dB	36.7 dB	26 dB	26 dB	100 ± 15 Ohm	
20 MHz	9.3 dB/100m	45.8 dB	42.8 dB	36.5 dB	33.5 dB	37.7 dB	34.7 dB	26 dB	26 dB	100 ± 15 Ohm	
25 MHz	10.4 dB/100m	44.3 dB	41.3 dB	33.9 dB	30.9 dB	35.8 dB	32.8 dB	25.5 dB	25.5 dB	100 ± 15 Ohm	
31.25 MHz	11.7 dB/100m	42.9 dB	39.9 dB	31 dB	28 dB	33.9 dB	30.9 dB	25 dB	25 dB	100 ± 15 Ohm	
62.5 MHz	17 dB/100m	38.4 dB	35.4 dB	22 dB	19 dB	27.8 dB	24.8 dB	23.5 dB	23.5 dB	100 ± 15 Ohm	
100 MHz	22 dB/100m	35.3 dB	32.3 dB	14 dB	11 dB	23.8 dB	20.8 dB	22.5 dB	22.5 dB	100 ± 15 Ohm	95-107 Ohm
1 MHz											
4 MHz											

8 MHz																								
10 MHz																								
16 MHz																								
20 MHz																								
25 MHz																								
31.25 MHz																								
62.5 MHz																								
100 MHz																								

Capacitance:

Max. Capacitance Unbalance	Nom. Mutual Capacitance
150 pF/ft	15 pF/ft

Insulation:

Material	Nominal Diameter	Nominal Wall Thickness
PO - Polyolefin	0.046 in	0.012 in

Outerjacket 1:

Material	Nominal Diameter	Nominal Wall Thickness
Industrial Grade PVC - Polyvinyl Chloride	0.33 in	0.03 in

Conductor:

AWG	Stranding	Material	No. of Pairs
24	Solid	BC - Bare Copper	4

Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction	n x D
Tape	1	Aluminum Foil-Polyester Tape			Beldfoil®	100 %	TC - Tinned Copper	26 Solid mm
Braid	2	TC - Tinned Copper				70 %		

Product Variants

Part Number	Color	Put-Up Type	Length
7921A			
7921A	RED	Reel	305 m
7921A 0021000	RED	Reel	1000 ft
7921A			
7921A	BLUE, LIGHT	Reel	305 m
7921A 0061000	BLUE	Reel	1000 ft
7921A			
7921A	BLACK	Reel	305 m
7921A 0101000	BLACK	Reel	1000 ft
7921A			
7921A	BLACK	Reel	610 m
7921A 0102000	BLACK	Reel	2000 ft
7921A	BLACK	Reel	1524 m
7921A			
7921A	TEAL 1NH	Reel	305 m
7921A 1NH1000	TEAL	Reel	1000 ft
7921A			

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