



Part Number: 7919A

Cat 5e MSHA DataTuff®, (4 pr) 24 AWG Solid BC, PO/PVC, Foil Shld, CMR, CMX-Outdoor

Product Description

Four Cat 5e 24 AWG solid bare copper conductors, twisted pairs, polyolefin insulation, overall Beldfoil® shield (100% 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, 100MHz Category 5e, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, RS-422, CMX - Outdoor, RJ-45 Compatible, Noisy Environments
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Technical Specifications

AG_0401

UL Flammability:	UL1666 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 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, UL444
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Other Specification:	Other Specification
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PMSHA Specification:	PMSHA Specification
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Unused Attributes

Notes:	Operating temperatures are subject to length de-rating. Cable passes -40°C 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:	25 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	23 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 dB	23 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	24.5 dB	24.5 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	25 dB	25 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	25 dB	25 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	25 dB	25 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	24.3 dB	24.3 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	23.6 dB	23.6 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	21.5 dB	21.5 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	20.1 dB	20.1 dB	100 ± 15 Ohm	100 ± 15 Ohm
1 MHz											
4 MHz											

Product Variants

Part Number	Color	Put-Up Type	Length
7919A			
7919A	BLUE, LIGHT	Reel	305 m
7919A 0061000	BLUE	Reel	1000 ft
7919A			
7919A			
7919A			
7919A	BLACK	Reel	305 m
7919A 0101000	BLACK	Reel	1000 ft
7919A			
7919A	BLACK	Reel	610 m
7919A 0102000	BLACK	Reel	2000 ft
7919A			
7919A	BLACK	Reel	1524 m
7919A 0105000	BLACK	Reel	5000 ft
7919A			

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