
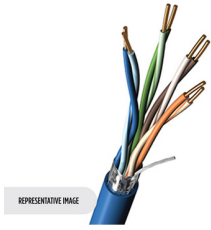


Product: [7903A](#) 

DataTuff® Cat 5e, 4 Pr #22 Sol BC, PO Ins, OS, PVC Jkt, PLTC CMR



Product Description

Industrial Ethernet Cat 5e, 4 Pair 22AWG (Solid) Bare Copper, PO Insulation, Overall Beldfoil® Shield, PVC Outer Jacket, PLTC CMR

Technical Specifications

Product Overview

Suitable Applications:	power-limited tray, harsh environment, IIoT, factory or process automation, IP cameras and devices, data communication, etc.
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/resources/patents .

Construction Details

Conductor

AWG	Stranding	Material	Number of Pairs
22	Solid	BC - Bare Copper	4

Insulation

Material	Color Code
PO - Polyolefin	White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

Bonded-Pair:	Yes
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Outer Shield Material

Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%

Outer Jacket Material

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.335 in	No

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalance	Max. Capacitance Unbalance	Max. Mutual Capacitance
9.38 Ohm/100m	0.05%	330 pF/100m	17 pF/ft

Delay

Max. Delay	Max. Delay Skew	Nom. Velocity of Propagation (VP) [%]
510 ns/100m	25 ns/100m	70%

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]	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	100 ± 15 Ohm	100 ± 15
4 MHz	4.1 dB/100m	56.3 dB	53.3 dB	51 dB	49 dB	51.7 dB	48.7 dB	23 dB	100 ± 15 Ohm	100 ± 15
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	100 ± 15 Ohm	100 ± 15
10 MHz	6.5 dB/100m	50.3 dB	47.3 dB	43 dB	41 dB	43.8 dB	40.8 dB	25 dB	100 ± 15 Ohm	100 ± 15
16 MHz	8.2 dB/100m	47.3 dB	44.3 dB	39 dB	36 dB	39.7 dB	36.7 dB	25 dB	100 ± 15 Ohm	100 ± 15
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	100 ± 15 Ohm	100 ± 15

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	100 ± 15 Ohm	100 ± 15
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	100 ± 15 Ohm	100 ± 15
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	100 ± 15 Ohm	100 ± 15
100 MHz	22 dB/100m	35.3 dB	32.3 dB	14 dB	11 dB	23.8 dB	20.8 dB	20.1 dB	100 ± 15 Ohm	
155 MHz	28.1 dB/100m	32.5 dB	29.5 dB	4.4 dB	1.4 dB	19.9 dB	16.9 dB	18.8 dB	100 ± 25 Ohm	
200 MHz	32 dB/100m	30.8 dB	27.8 dB	4 dB	1 dB	17.7 dB	14.7 dB	18.0 dB	100 ± 25 Ohm	
250 MHz	36.9 dB/100m	29.3 dB	26.3 dB			15.8 dB	12.8 dB	18 dB	100 ± 25 Ohm	
300 MHz	41.0 dB/100m	28.2 dB	25.1 dB			14.2 dB	11.2 dB	17.3 dB	100 ± 25 Ohm	
310 MHz	41.8 dB/100m	27.9 dB	24.9 dB			13.9 dB	10.9 dB	16.8 dB	100 ± 25 Ohm	
350 MHz	44.9 dB/100m	27.2 dB	24.1 dB			12.9 dB	9.9 dB	16.3 dB	100 ± 25 Ohm	

Voltage

UL Voltage Rating
300 V RMS

Mechanical Characteristics

Temperature

UL Rating	Operating	Installation	Storage
75°C	-40°C To +75°C	-25°C To +75°C	-25°C To +75°C

Bend Radius

Stationary Min.
3.38 in

Max. Pull Tension: 40 lbs

Standards and Compliance

Environmental Suitability:	Indoor, Outdoor, Sunlight Resistance, Oil Resistance
Flammability / Fire Resistance:	UL1666 Riser, FT4
NEC / UL Compliance:	CMR, PLTC
CEC / C(UL) Compliance:	CMR
TIA/EIA Compliance:	TIA 568-C.2 Category 5e

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
7903A 0101000	Black	Reel	1,000 ft	612825421917
7903A 0105000	Black	Reel	5,000 ft	612825421931

History

Update and Revision: Revision Number: 0.73 Revision Date: 09-30-2020

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