



Product: <u>7940A</u> ☑

DataTuff® Cat 6, 4 Bonded-Pr #23 Sol BC, PO Ins, PVC Jkt, CMX-Outdoor CMR

😭 Request Sample

Product Description Industrial Ethernet Cat 6, 4 Bonded-Pair 23AWG (Solid) Bare Copper, PO Insulation, PVC Outer Jacket, CMX-Outdoor CMR

Technical Specifications

Product Overview

Suitable Applications:	outdoor, 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

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

Insulation

mouldion								
Material	Color Code							
PO - Polyolefin White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Br								
Bonded-Pair:		Yes						
Outer Jacket								
Separato	· Mate	erial	Nom. Diameter	Ripcord				
Dielectric Tape (F	atented) PVC - Polyv	inyl Chloride	0.25 in (6.4 mm)	Yes				
Overall Cable Dia	verall Cable Diameter (Nominal): 0.25 in (6.4 mm)							

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
82 Ohm/km	330 pF/ft

Delay

Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.		
537 ns/100m	45 ns/100m	72%		

High Frequency

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	2.0 dB/100m	74.3	72.3	72.3	70.3	67.8	64.8	21	100 ± 15 Ohm	100 ± 15 Ohm
4	3.8 dB/100m	65.3	63.3	61.5	59.5	55.8	52.7	24	100 ± 15 Ohm	100 ± 15 Ohm
8	5.3 dB/100m	60.8	58.8	55.4	53.4	49.7	46.7	25.5	100 ± 15 Ohm	100 ± 15 Ohm
10	6 dB/100m	59.3	57.3	53.3	51.3	47.8	44.8	26	100 ± 15 Ohm	100 ± 15 Ohm
16	7.6 dB/100m	56.2	54.3	48.7	46.7	43.7	40.7	26	100 ± 15 Ohm	100 ± 15 Ohm
20	8.5 dB/100m	54.8	52.8	46.3	44.3	41.8	38.8	26	100 ± 15 Ohm	100 ± 15 Ohm
25	9.5 dB/100m	53.3	51.3	43.8	41.8	39.8	36.8	25.3	100 ± 15 Ohm	100 ± 15 Ohm
31.25	10.7 dB/100m	51.9	49.9	41.2	39.2	37.9	34.9	24.6	100 ± 15 Ohm	100 ± 15 Ohm

62.5	15.4 dB/100m	47.4	45.4	32	30	31.9	28.9	22.5	100 ± 15 Ohm	100 ± 15 Ohm
100	19.8 dB/100m	44.3	42.3	24.5	22.5	27.8	24.8	21.1	100 ± 15 Ohm	
155	25.2 dB/100m	41.5	39.5	16.3	14.3	23.9	20.9	19.8	100 ± 22 Ohm	100 ± 15 Ohm
200	29.0 dB/100m	39.8	37.8	10.8	8.8	21.8	18.8	19	100 ± 22 Ohm	100 ± 15 Ohm
250	32.8 dB/100m	38.3	36.3	5.5	3.5	19.8	16.8	18.3	100 ± 32 Ohm	100 ± 15 Ohm

Voltage

UL Voltage Rating

300 V (CMR), 300 V (CMX-Outdoor)

Mechanical Characteristics

Temperature

UL Temperatur	e Operating	Installation	Storage
60°C	-40°C To +75°C	-20°C To +75°C	-40°C To +75°C

Bend Radius

Stationary Min. 2.5 in (64 mm)	
Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	30 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Non-Halogenated, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1666 Riser, FT4, FT4, IEEE 1202 Vertical Tray Flame Test, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMR;CMX-Outdoor
CEC / C(UL) Compliance:	CMX-Outdoor
Data Category:	Category 6
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 6
Third Party Performance Verification:	Category 6
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61156-5
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes: Jacket sequentially marked at 2 ft. intervals.						
History						
Update and Revision: Revision Number: 0.402 Revision Date: 12-15-2021						
Variante						

Variants

Item #	Color	Putup Type	Length	UPC
7940A 0101000	Black	Reel	1,000 ft	612825191827
7940A 0102000	Black	Reel	2,000 ft	612825191834
7940A 0061000	Blue	Reel	1,000 ft	612825191803
7940A 0081000	Gray	Reel	1,000 ft	612825191810
7940A 1NH1000	Teal	Reel	1,000 ft	612825191841

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