



Product: <u>7929A</u> ☑

DataTuff® Cat 5e, 4 Bonded-Pr #24 Sol BC, PO Ins, OS, PVC Jkt, CMR CMG

😭 Request Sample

Product Description

Industrial Ethernet Cat 5e, 4 Bonded-Pair 24AWG (Solid) Bare Copper, PO Insulation, Overall Beldfoil® Shield, PVC Outer Jacket, CMR CMG

Technical Specifications

Product Overview

Suitable Applications:	mining, 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/patents.

Construction Details

Conductor					
Element	Size	Stranding	Material	No. of Pairs	No. of Elements
Pair(s)	24 AWG	Solid	BC - Bare Copper	4	4
Insulation					
Materia	al				Color Code
PO - Polyo	olefin Wr	nite/Blue Strip	be & Blue, White/Ora	ange Stripe &	Orange, White/Gree
Bonded-P	air:		Yes		
Outer Shie	ld				
Shield Ty	pe	Mat	erial	Coverage	Drainwire Type
Таре	Polye	ester + Bi-Lar	minate (Alum+Poly)	100%	24 AWG (7x32) TC
Outer Jack	(et				
Ma	aterial	Nom	. Diameter		

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Overall Cable Diameter (Nominal):	0.275 in (6.99 mm)							

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
93.8 Ohm/km (28.6 Ohm/1000ft)	330 pF/100m

Delay

Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
538 ns/100m	45 ns/100m	70%

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]	Min. SRL (Structural Return Loss) [dB]	Max./Min. Input Impedance (unFitted) [Ohm]	Max./Min. Fitted Impedance [Ohm]
1	2.0 dB/100m	65.3	62.3	63	60	63.8	60.8	20	23	100 ± 15	100 ± 15
4	4.1 dB/100m	56.3	53.3	51	49	51.7	48.7	23	23	100 ± 15	100 ± 15
8	5.8 dB/100m	51.8	48.8	46	43	45.7	42.7	24.5	24.5	100 ± 15	100 ± 15
10	6.5 dB/100m	50.3	47.3	43	41	43.8	40.8	25	25	100 ± 15	100 ± 15

16	8.2 dB/100m	47.3	44.3	39	36	39.7	36.7	25	25	100 ± 15	100 ± 15
20	9.3 dB/100m	45.8	42.8	36.5	33.5	37.7	34.7	25	25	100 ± 15	100 ± 15
25	10.4 dB/100m	44.3	41.3	33.9	30.9	35.8	32.8	24.3	24.3	100 ± 15	100 ± 15
31.25	11.7 dB/100m	42.9	39.9	31	28	33.9	30.9	23.6	23.6	100 ± 15	100 ± 15
62.5	17.0 dB/100m	38.4	35.4	22	19	27.8	24.8	21.5	21.5	100 ± 15	100 ± 15
100	22.0 dB/100m	35.3	32.3	14	11	23.8	20.8	20.1	20.1	100 ± 15	
200	32.4 dB/100m		27.8		1		14.7		15	100 ± 25	

Voltage

UL Voltage Rating

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

Mechanical Characteristics

Temperature

UL T	emperature	Operating	Installation	Storage
60°C		-40°C To +75°C	-25°C To +75°C	-40°C To +80°C

Bend Radius

Stationary Min.

0.5 in (13 mm)	
Max. Pull Tension:	20 lbs (9.1 kg)
Bulk Cable Weight:	32 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	UL1666 Riser, FT4, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 800, CMR, CMX-Outdoor
CEC / C(UL) Compliance:	CMG
Data Category:	Category 5e
European Directive Compliance:	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
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes: Operating temperatures are subject to length de-rating. Cable passes -40C Cold Bend per UL 1581. *Special RJ45 plug required. See WWW. BELDEN.COM - Tools - Connector Cross Reference.

History

Update and Revision: Revision N

Revision Number: 0.583 Revision Date: 12-12-2023

Part Numbers

Variants

ltem #	Color	Putup Type	Length	UPC	Footnote
7929A 0101000	Black	Reel	1,000 ft	612825191520	С
7929A 0102000	Black	Reel	2,000 ft	612825191537	С
7929A 0105000	Black	Reel	5,000 ft	612825191544	С
7929A 0061000	Blue	Reel	1,000 ft	612825191506	С
7929A 0081000	Gray	Reel	1,000 ft	612825191513	С
7929A 0021000	Red	Reel	1,000 ft	612825191490	С
7929A 1NH1000	Teal	Reel	1,000 ft	612825191551	С

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