



# 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

Patent: This product has one or more applicable patents. More information on patents can be found at <a href="https://www.belden.com/patents-">https://www.belden.com/patents-</a>	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**

Conducto	r				
Element	Size	Stranding	Material	Number of Pairs	Number of Element
Pair(s)	24 AWG	Solid	BC - Bare Copper	4	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						
Outer Shield							
Outer Shield Shield Type	Material	Coverage	Drainwire Type	1			

#### Outer Jacket

Motorial	Nom Diamator
Material	Nom. Diameter
PVC - Polyvinyl Chloride	0.275 in (6.99 mm)
Overall Cable Diameter	0.275 in (6
(Nominal):	0.275 III (6

### **Electrical Characteristics**

#### Electricals

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

### 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 Temperature	Operating	Installation	Storage
60°C	-40°C To +75°C	-25°C To +75°C	-40°C To +80°C

#### Bend Radius

Stationary Min.
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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, 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**

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

#### **Part Numbers**

#### Variants Putup Type Length Item # Color 1,000 ft 612825191520 7929A 0101000 Black Reel 7929A 0102000 Black 2.000 ft 612825191537 Reel 7929A 0105000 Black Reel 5,000 ft 612825191544 7929A 0061000 Blue Reel 1.000 ft 612825191506 7929A 0081000 Gray 1,000 ft 612825191513 Reel 7929A 0021000 Red Reel 1,000 ft 612825191490 7929A 1NH1000 Teal Reel 1,000 ft 612825191551

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