Belden



Product: 7934A

DataTuff® Cat 5e, 4 Bonded-Pr #24 Sol BC, PO Ins, PE Jkt, OSP BURIAL

Request Sample

Product Description

Industrial Ethernet Cat 5e, 4 Bonded-Pair 24AWG (Solid) Bare Copper, PO Insulation, PE Outer Jacket, Polymer Gel Waterblocked OSP BURIAL

Technical Specifications

Product Overview

Suitable Applications:	burial, 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
Pair(s)	24 AWG	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
Waterblocking:	Gel Filled

Outer Jacket

Material	Nom. Diameter	Ripcord
PE - Polyethylene	0.230 in (5.84 mm)	No

Overall Cable Diameter (Nominal):	0.230 in (5.84 mm)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
93.8 Ohm/km (28.6 Ohm/1000ft)	150 pF/ft

Delay

Max. Delay Skew	Nom. Velocity of Prop.
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	102.5 ± 7.5
4	4.1 dB/100m	56.3	53.3	51	49	51.7	48.7	23.6	23	100 ± 15	102.5 ± 7.5
8	5.8 dB/100m	51.8	48.8	46	43	45.7	42.7	25.4	24.5	100 ± 15	101 ± 6
10	6.5 dB/100m	50.3	47.3	43	41	43.8	40.8	26	25	100 ± 15	101 ± 6
16	8.2 dB/100m	47.3	44.3	39	36	39.7	36.7	26	25	100 ± 15	101 ± 6
20	9.3 dB/100m	45.8	42.8	36.5	33.5	37.7	34.7	26	25	100 ± 15	101 ± 6

25	10.4 dB/100m	44.3	41.3	33.9	30.9	35.8	32.8	25.5	24.3	100 ± 15	101 ± 6
31.25	11.7 dB/100m	42.9	39.9	31	28	33.9	30.9	25	23.6	100 ± 15	101 ± 6
62.5	17.0 dB/100m	38.4	35.4	22	19	27.8	24.8	23.5	21.5	100 ± 15	101 ± 6
100	22.0 dB/100m	35.3	32.3	14	11	23.8	20.8	22.5	20.1	100 ± 15	
155	28.1 dB/100m	32.5	29.5	4.4	1.4	19.9	16.9	15.8		100 ± 25	
200	32 dB/100m	30.8	27.8	4	1	17.7	14.7	15		100 ± 25	

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-40°C To +75°C	-25°C To +75°C	-40°C To +85°C

Bend Radius

Stationary Min.
1 in (25 mm)

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	22 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Outdoor, Outdoor, Non-Halogenated, Sunlight Resistance, Oil Resistance
CPR Compliance:	CPR Euroclass: Fca
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 5e
Third Party Performance Verification:	Category 5e
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:	EtherNet IP is a trademark of ControlNet International Ltd. under license by DeviceNet Vendor Association, Inc. Operating Temperature subject to length de-rating. Cable not guaranteed to meet TIA 568.2 specification for delay above lengths of 90m. Fully Water Blocked. Suitable for burial or use in Buildings in Wet Locations. Not recommended for Direct Burial applications without additional crush and impact protection. Additional crush and impact protection would include cable armoring, installation in conduit or installation with over top barriers per Belden Technical Bulletin T/8-6. Not intended for burial in areas where the ground temperature exceeds 60C for long periods of time.

History

Update and Revision:	Revision Number: 0.669 Revision Date: 02-20-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7934A 0101000	Black	Reel	1,000 ft	612825191674	C

Footnote:	C - CRATE REEL PUT-UP.

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