



Product: BE43886 ☑

DataTuff® 5E, 4PR #26 Str BC, PO ins, F/UTP, LSNH Jkt, ECE R118

Product Description

DataTuff® 5E, 4 Pair AWG 26 Bare Copper - Stranded, Polyethylene insulation, F/UTP - Unshielded shielding, LSZH / FRNC jacket , ECE R118

Technical Specifications

Product Overview

Suitable Applications:	Cat5e, For use in buses or other vehicles, cable meets the requirements of the standard ECE R118.03
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
Individual Pair	26 AWG	7x34	BC - Bare Copper	4	8

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Individual Pair	PE - Polyethylene	0.95 mm (0.037 in)	Black/Blue & Blue, Black/Orange & Orange, Black/Green & Green, Black/Brown & Brown

Cable Core

Description
4 pairs twisted together

Outer Shield

Shield Type	Material	Drainwire Type
Tape E	Bi-Laminate (Alum+Poly)	26 AWG (7x34) TC
Table Notes:	Aluminu	m facing inside in con

Outer Jacket

Material	Material	
LSZH - Low Smoke Zero Halog	jen (Flame Retardant)	5.4 mm (0.21 in)
Overall Cable Diameter (Nominal):	5.4 mm (0.21 in)	

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
145 Ohm/km	56 pF/m (17 pF/ft)	160 pF/100m	100 Ohm

Delay

Max. Delay Skew	Nom. Velocity of Prop.
40 ns/100m	60%

High Frequency

Frequency	Max. Insertion Loss	Min. NEXT	Min. PSNEXT	Min. ACR	Min. PSACR	Min. ACRF	Min. PSACRF	Min. RL (Return	Min. TCL	Min. ELTCTL
[MHz]	(Attenuation)	[dB]	[dB]	[dB]	[dB]	(ELFEXT) [dB]	(PSELFEXT) [dB]	Loss) [dB]	[dB]	[dB]

1	3.2 dB/100m		65.3	62.3	62.1	59.1	64	61	20	40	35
4	6 dB/100m		56.3	53.3	50.3	47.3	52	49	23	34	23
10	9.5 dB/100m		50.3	47.3	40.8	37.8	44	41	25	30	15
16	12.1 dB/100m		47.2	44.2	35.2	32.2	39.9	36.9	25	28	10.9
20	13.5 dB/100m		45.8	42.8	32.2	29.2	38	35	25	27	9
31.25	17.1 dB/100m		42.9	39.9	25.8	22.8	34.1	31.5	23.3	25.1	5.5
62.5	24.8 dB/100m		38.4	35.4	13.6	10.6	28.1	25.1	20.7	22	
100	32 dB/100m		35.3	32.3	3.3	0.3	24	21	19	20	
Table Notes:	•	Limits below	4 MHz are for	information only.	Reference st	andard: IEC 611	56-5	•			

Transfer Impedance

Frequency	Max. Transfer Impedance
1 Mhz	Max. 50 mOhm/m
10 Mhz	Max. 100 mOhm/m
30 Mhz	Max. 200 mOhm/m
100 Mhz	Max. 1000 mOhm/m

Transfer Impedance Class:	Grade 2
Screening Class:	Type II
Table Notes:	Coupling Attenuation

Voltage

Voltage Rating 72 V DC

Mechanical Characteristics

Temperature

Operating	Installation
-30°C to +60°C	0°C To +50°C

Bend Radius

Stationary Min.	Installation Min.
21 mm (0.83 in)	42 mm

Max. Pull Tension:	45 N (10 lbf)
Bulk Cable Weight:	31 kg/km

Standards and Compliance

Environmental Suitability: Indoor - Eurocla Flammability / Reaction to Fire: IEC 60332-1-2, CPR Compliance: CPR Euroclass Data Category: Category 5e	2, UN ECE R118.03
Fire: IEC 00332-1-2, CPR Compliance: CPR Euroclass	
· ·	ss: Eca
Data Category: Category 5e	
TIA/EIA Compliance: ANSI/TIA 568.2	.2-D
ISO/IEC Compliance: ISO/IEC 11801-	1-1
CENELEC Compliance: EN 50173-1, Se	Segregation class according EN50174-2 = a
	Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 d Gas Amount - Min. pH = 4.3
European Directive Compliance:	

History

Update and Revision:	Revision Number: 0.151 Revision Date: 01-10-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
BE43886.00500	Gray, RAL 7032	Reel	500 m	8719605162052

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