BELDEN

Product: [72002E](#) ↗

DataTuff® 5E, 2PR #26 Str BC, PO ins, SF/UTP, PVC jkt, AWM 2464

Product Description

DataTuff® 5E, 2 Pair AWG 26 Bare Copper - Stranded, Polyethylene insulation, SF/UTP - Overall Braid + Foil shielding, PVC jacket , AWM 2464

Technical Specifications

Product Overview

Suitable Applications:	Cat5e, harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.

Construction Details

Conductor

Size	Stranding	Material	No. of Pairs	No. of Elements
26 AWG	7x0.16 mm	BC - Bare Copper	2	4

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.98 mm (0.039 in)	White/Blue & Blue, White/Orange & Orange

Cable Core

Description
2 pairs and 2 fillers twisted to cable core covered with a polyester foil

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	
Braid	Tinned Copper (TC)	80%

Table Notes:	Aluminum outside

Outer Jacket

Material	Nom. Diameter
PVC - Polyvinyl Chloride	6 mm (0.24 in)

Overall Cable Diameter (Nominal):	6 mm (0.24 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
140 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 [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. RL (Return Loss) [dB]
0.772		67		19.4
1	3.2 dB/100m	65.3	63.8	20

4	6 dB/100m	56.3	51.8	23
10	9.5 dB/100m	50.3	43.8	25
16	12.1 dB/100m	47.2	39.7	25
20	13.6 dB/100m	45.8	37.8	25
25	15.3 dB/100m	44.3	35.8	24.3
31.25	17.1 dB/100m	42.9	33.9	23.6
62.5	24.8 dB/100m	38.3	27.9	21.5
100	32 dB/100m	35.3	23.8	20.1

Voltage

Voltage Rating
450 V DC and 300 V AC

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-40°C to +80°C	-5°C To +50°C	-40°C To +80°C

Bend Radius

Stationary Min.	Installation Min.
30 mm (1.2 in)	60 mm

Max. Pull Tension:	40 N (9.0 lbf)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca, Indoor, Sunlight Resistance - Black only, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
AWM Compliance:	AWM 2464
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	EN 50173-1
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.253 Revision Date: 01-10-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
72002E.01305	Black	Reel	305 m	8719605012807
72002E.01500	Black	Reel	500 m	8719605012814

Mouser Electronics

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