

Product: 74003PU

DataTuff® 5E, 4PR #26 Str BC, PO ins, SF/UTP, PUR HF jkt, 2M flex Trailing

Product Description

DataTuff® 5E, 4 Pair AWG 26 Bare Copper - Stranded, Polyethylene insulation, SF/UTP - Overall Braid + Foil shielding, PUR Halogen Free jacket , 2M flex Trailing

Technical Specifications

Product Overview

Suitable Applications:	Cat5e, Flex trailing 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	19x0.10 mm	BC - Bare Copper	4	8

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	1 mm (0.039 in)	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown

Cable Core

Description
4 pairs 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

Separator	Material	Nom. Diameter
non-Woven Tape	PUR - Polyurethane (Halogen Free)	6.65 mm (0.262 in)

Table Notes:	Flame Retardant Sheath
Overall Cable Diameter (Nominal):	6.65 mm (0.262 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 [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]
0.772		67	64			19.4
1	3.2 dB/100m	65.3	62.3	63.8	60.8	20
4	6 dB/100m	56.3	53.3	51.8	48.8	23
10	9.5 dB/100m	50.3	47.3	43.8	40.8	25
16	12.1 dB/100m	47.2	44.2	39.7	36.7	25
20	13.6 dB/100m	45.8	42.8	37.8	34.8	25
25	15.3 dB/100m	44.3	41.3	35.8	32.8	24.3
31.25	17.1 dB/100m	42.9	39.9	33.9	40.9	23.6
62.5	24.8 dB/100m	38.3	35.4	27.9	24.9	21.5
100	32 dB/100m	35.3	32.3	23.8	20.8	20.1

Voltage

Voltage Rating
450 V DC and 300 V AC

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-40°C to +80°C	-15°C To +60°C	-40°C to +80°C

Trailing/Flexing Properties

Motion	Number of Cycles	Radius	Speed	Acceleration
Trailing/Bending	2,000,000	60 mm	3 m/s	3 m/s²

Bend Radius

Stationary Min.	Installation Min.
35 mm (1.4 in)	70 mm

Max. Pull Tension:	80 N (18 lbf)

Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Outdoor - Black only, Sunlight Resistance
Flammability / Reaction to Fire:	UL Horizontal flame test
AWM Compliance:	AWM 20549
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 Halogen Free Standards:	IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark

History

Update and Revision:	Revision Number: 0.261 Revision Date: 08-19-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
74003PU.01B100	Black	Flat Box	100 m	8719605013132
74003PU.01305	Black	Reel	305 m	8719605013118
74003PU.01500	Black	Reel	500 m	8719605013125

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