

Product: 74002PU

DataTuff® 5E, 4PR #26 Str BC, PO ins, SF/UTP, PUR HF jkt, AWM 20549

Product Description

DataTuff® 5E, 4 Pair AWG 26 Bare Copper - Stranded, Polyethylene insulation, SF/UTP - Overall Braid + Foil shielding, PUR Halogen Free jacket , AWM 20549

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	4	8

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.98 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

Material	Nom. Diameter
PUR - Polyurethane (Halogen Free)	6.5 mm (0.26 in)

Table Notes:	Flame Retardant Sheath
Overall Cable Diameter (Nominal):	6.5 mm (0.26 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

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/Outdoor, Indoor, Outdoor - Black only, Sunlight Resistance, Oil Resistance
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 - Max. Conductivity = 10 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark

History

Update and Revision:	Revision Number: 0.259 Revision Date: 04-29-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
74002PU.01305	Black	Reel	305 m	8719605013095
74002PU.01500	Black	Reel	500 m	8719605013101
74002PU.011000	Black	Reel	1,000 m	8719605013088

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