

Product: 74005PU

DataTuff® 7, 4PR #26 Str BC, PO ins, S/FTP, PUR HF jkt, AWM 21292

Product Description

DataTuff® 7, 4 Pair AWG 26 Bare Copper - Stranded, Polyethylene insulation, S/FTP - Overall Braid / Individual Foil shielding, PUR Halogen Free jacket , AWM 21292

Technical Specifications

Product Overview

Suitable Applications:	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 (Foam)	1.05 mm (0.0413 in)	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown

Cable Core

Description
4 pairs twisted to cable core

Inner Shield

Element	Shield Type	Material
Individual Shielded Pair	Tape	Bi-Laminate (Alum+Poly)

Table Notes:	Aluminum outside

Outer Shield

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	65%

Outer Jacket

Material	Nom. Diameter
PUR - Polyurethane (Halogen Free)	6.8 mm (0.27 in)

Table Notes:	Flame Retardant Sheath
Overall Cable Diameter (Nominal):	6.8 mm (0.27 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	70%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]
1	2.7	80	77			
4	5.5	80	77	58	55	23
10	8.5	80	77	50	47	25
16	10.8	80	77	46	43	25
20	12.1	80	77	44	41	25
31.25	15.2	80	77	40	37	23.6
62.5	21.8	75.1	72.1	34	31	21.5
100	27.8	72.4	69.4	30	27	20.1
200	40.1	67.9	64.9	24	21	18
300	50	65.3	62.3	20	17	17.3
600	73.3	60.8	57.8	14	11	17.3

Transfer Impedance

Frequency	Max. Transfer Impedance
10 Mhz	Max. 5 mOhm/m

Voltage

UL Voltage Rating	Voltage Rating
30 V RMS	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.
30 mm (1.2 in)	65 mm

Max. Pull Tension:	80 N (18 lbf)

Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
AWM Compliance:	AWM 21292
Data Category:	Category 7
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: 03-04-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
74005PU.02B100	Black	Flat Box	100 m	8719605013361
74005PU.02305	Black	Reel	305 m	8719605013347
74005PU.02500	Black	Reel	500 m	8719605013354
74005PU.01500	Blue, Water	Reel	500 m	8719605013330

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