



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.
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#### 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
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##### 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
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Overall Cable Diameter (Nominal):	6.8 mm (0.27 in)
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#### 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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