



**Product:** [74009PU](#)

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, Polyolefin (PO, PE, PP) insulation, SF/UTP - Overall Braid + Foil shielding, PUR Halogen Free jacket, AWM 20549

## Technical Specifications

### Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc. Not rodent protected.
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	Construction n x D	No. of Pairs
26	Stranded	BC - Bare Copper	19x0.10 mm	4

Conductor Count:	8
Total Number of Pairs:	4

#### Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PO - Polyolefin	1 mm	0.05 mm

Bonded-Pair:	No
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#### Color Chart

Number	Color
Pair 1	White/Blue & Blue
Pair 2	White/Orange & Orange
Pair 3	White/Green & Green
Pair 4	White/Brown & Brown

#### Outer Shield Material

Type	Material	Min. Coverage [%]
Tape	Bi-Laminate (Alum+Poly)	
Braid	Tinned Copper (TC)	80%

Table Notes:	Aluminum outside
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#### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance	Separator Material
PUR - Polyurethane (Halogen Free)	6.4 mm	0.3 mm	non-Woven Tape

Table Notes:	Sheath Resists Weld-Splatter
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### Construction and Dimensions

Min Elongation at Breakof Jacket:	300 %
Min Tensile Strength of Jacket:	10.3 MPa

### Electrical Characteristics

## Conductor DCR

Max. Conductor DCR	Max. DCR Unbalanced Within Pair [%]
140 Ohm/km	2 %

## Capacitance

Max. Capacitance Unbalance	Max. Mutual Capacitance
1.6 pF/m	56 pF/m

## Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Nominal Input Impedance
100 Ohm	5 Ohm	100 +/- 15 Ohm

## Delay

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
40 ns/100m	60%

## High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1 MHz	3.2 dB/100m
4 MHz	6.2 dB/100m
10 MHz	9.5 dB/100m
16 MHz	12.1 dB/100m
20 MHz	13.6 dB/100m
31.25 MHz	17.9 dB/100m
62.5 MHz	24.8 dB/100m
100 MHz	32 dB/100m

Table Notes: Reference standard: ISO/IEC 11801 ed 2.0, Cat 5e

## Current

Element	Max. Recommended Current [A]
Conductor	1.4 Amps per Conductor

## Voltage

UL Voltage Rating	Voltage Rating [V]
300V RMS	450 V DC and 300 V AC

## Temperature Range

Installation Temp Range:	-5°C To +50°C
Storage Temp Range:	-40°C To +80°C
Operating Temp Range:	-40°C To +80°C

## Mechanical Characteristics

Oil Resistance:	IEC 60811-2-1
Min Setting Radius:	30 mm
Min No. of Drag Chain Cycles:	1000000

## Standards

UL AWM Style Compliance:	AWM 20549
IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	EN 50173-1
Data Category:	Category 5e
ANSI Compliance:	ANSI/TIA 568.2-D (2018)

## Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU RoHS Compliance Date (yyyy-mm-dd):	2016-05-17

## Suitability

Suitability - Burial:	No
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes

Suitability - Outdoor:	Yes - Black only
Suitability - Sunlight Resistance:	Yes

## Flammability, LSOH, Toxicity Testing

CSA Flammability:	FT2
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3

## Part Number

### Variants

Item #	Color	Putup Type	Length	EAN
74009PU.01500	Black	Reel	500 m	8719605013385

## History

Update and Revision:	Revision Number: 0.222 Revision Date: 12-18-2020
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