



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, 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.
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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
5 fillers and 4 pairs twisted to cable core

Outer Shield

Shield Type	Material	Coverage
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	80%

Table Notes:	Aluminum outside
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Outer Jacket

Separator	Material	Nom. Diameter
non-Woven Tape	PUR - Polyurethane (Halogen Free)	6.4 mm (0.25 in)

Table Notes:	Sheath Resists Weld-Splatter
Overall Cable Diameter (Nominal):	6.4 mm (0.25 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
140 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)
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1	3.2 dB/100m
4	6.2 dB/100m
10	9.5 dB/100m
16	12.1 dB/100m
20	13.6 dB/100m
31.25	17.9 dB/100m
62.5	24.8 dB/100m
100	32 dB/100m

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

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

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-40°C to +80°C	-5°C To +50°C	-40°C to +80°C

Trailing/Flexing Properties

Motion	Number of Cycles	Traverse Length	Torsion Angle
Trailing/Bending	1,000,000		
Torsion/Twisting	2,000,000	1 m	360 °

Bend Radius

Stationary Min.	Installation Min.
30 mm (1.2 in)	60 mm

Standards and Compliance

Environmental Suitability:	Indoor, Indoor, Outdoor - Black only, Sunlight Resistance - Black only, Oil Resistance
Flammability / Reaction to Fire:	UL 1581 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
European Directive Compliance:	EU CE Mark

History

Update and Revision:	Revision Number: 0.268 Revision Date: 04-29-2024
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Part Numbers

Variants

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

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