

Part Number: 74001PU

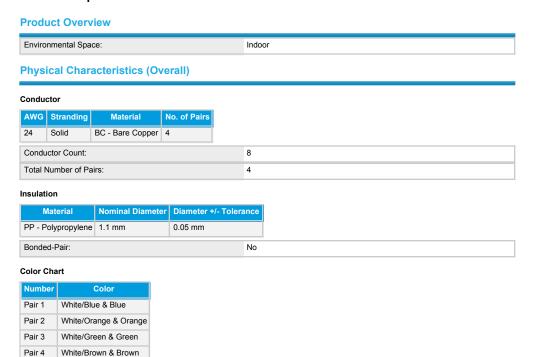
DataTuff® Industrial Ethernet Cat 5e Permanent Installation Cable



Product Description

DataTuff Industrial ETHERNET, CAT5E, 4PR, 1 Gb/s, AWG 24(1), Solid Conductor, Foil+ 80% Braid, No Halogen Jacket PUR, UL AWM 20549

Technical Specifications



Outer Shield Material

Type	Material	Min. Coverage [%]
Tape	Aluminum/Polyester	
Braid	TC - Tinned Copper	80 %
Outer Shield Table Note:		

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance	Min. Wall Thickness	Nominal Wall Thickness
PUR (Halogenfree and flame-retardant)	6.6 mm	0.3 mm	0.6 mm	0.8 mm

Aluminum outside

Construction and Dimensions

Min Elongation at Breakof Conductors:	10 %
Min Elongation at Breakof Insulation:	100 %

Cabling

Description
4 pairs twisted to cable core covered with a polyester foil

Min Elongation at Breakof Jacket:	100 %
Min Tensile Strength of Jacket:	15 MPa

Electrical Characteristics

Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. DCR Unbalanced Within Pair [%]
93.8 Ohm/km	19 Ohm/1000ft	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 %

Current

Element	Max. Recommended Current [A]
Conductor	1.4 A

Voltage

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

Temperature Range

Installation Temp Range:	-15°C To +60°C
Operating Temp Range:	-40°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-2-1
Max Recommended Pulling Tension:	80 N
Min Bend Radius (W/o Pulling Strength):	70 mm
Min Setting Radius:	35 mm

Standards

UL AWM Style:	UL AWM 20549
ISO/IEC Compliance:	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011 and ISO/IEC 24702
CENELEC Compliance:	EN 50173-1 Ed. 3:2011
Data Category:	Category 5e
ANSI Compliance:	ANSI/TIA 568.2-D (2018)
IEEE Specification:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2016-01-12

Suitability

Suitability - Sunlight Resistance:	Yes - Black only

Flammability, LS0H, Toxicity Testing

CSA Flammability:	FT2
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color	Length
74001PU.01305	Black	305 m

History

Update and Revision:	Revision Number: 0.169 Revision Date: 09-02-2019

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