

**Part Number: 74009PU**

**DataTuff® Industrial Ethernet Cat 5e HiFlex Torsion Cable**



### Product Description

DataTuff® Industrial Ethernet Cat 5e HiFlex Torsion Cable, AWG 26(19), Foil + 80% Braid, PUR No Halogen Jacket, UL AWM 20549

### Technical Specifications

#### 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
PP - Polypropylene	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	Aluminum/Polyester	
Braid	TC - Tinned Copper	80 %

Outer Shield Table Note:	Aluminum outside
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##### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance	Separator Material
PUR (Halogenfree and weld-splatter resistant)	6.4 mm	0.3 mm	Non-woven foil

#### Construction and Dimensions

Min Elongation at Breakof Jacket:	300 %
Min Tensile Strength of Jacket:	15 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
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#### 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

#### 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:	-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

#### Standards

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)

#### Applicable Environmental and Other Programs

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

#### Flammability, LS0H, Toxicity Testing

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

#### Part Number

##### Variants

Item #	Color	Length
74009PU.01500	Black	500 m

Patent:	<a href="https://www.belden.com/resources/patents">https://www.belden.com/resources/patents</a>
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#### History

Update and Revision:	Revision Number: 0.176 Revision Date: 09-02-2019
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