

Part Number: 74004PU

# DataTuff® Industrial Ethernet Cat 7 Permanent Installation Cable

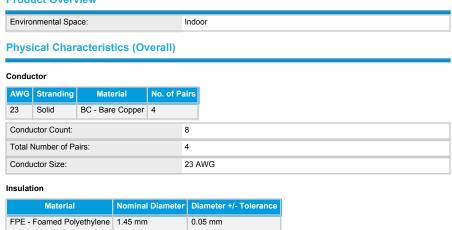


## **Product Description**

DataTuff Industrial ETHERNET, Cat 7 4 Pair, 10 Gb/s, AWG 23(1), Solid, Foil + 80% Braid, No Halogen PUR Jacket, UL AWM 20549

#### **Technical Specifications**

#### **Product Overview**



No

# Bonded-Pair: Color Chart

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

#### Inner Shield Material

Type
Tape Aluminum / Polyester
InnerShield, Table Note:

#### Outer Shield Material

T	ype	Material	Min. Coverage [%]
В	raid	TC - Tinned Copper	65 %

#### **Outer Jacket Material**

Material	Nominal Diameter	Diameter +/- Tolerance
PUR (Halogenfree and flame-retardant)	8 mm	0.3 mm

#### **Construction and Dimensions**

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

## Cabling

# Description 4 pairs twisted to cable core

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

#### **Electrical Characteristics**

#### Conductor DCR

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

#### Capacitance

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

#### Impedance

Frequency [MHz]	Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Nominal Input Impedance
4 - 100	100 Ohm	5 Ohm	100 +/- 15 Ohm
100 - 250	100 Ohm	22 Ohm	
250 - 600	100 Ohm	25 Ohm	

#### Delay

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

Coupling Attenuation Class:	Type Ib
Segregation class according EN50174-2:	C

#### Transfer Impedance

Frequency [MHz]	Transfer Impedance
1 Mhz	Max. 5 mOhm/m
10 Mhz	Max. 5 mOhm/m
30 Mhz	Max. 30 mOhm/m
100 Mhz	100 mOhm/m

#### Current

Element	Max. Recommended Current [A]
Conductor	1.4 A

#### Voltage

# Voltage Rating [V] 30 V AC

## **Temperature Range**

Installation Temp Range:	-5°C To +50°C
Operating Temp Range:	-40°C To +70°C

#### **Mechanical Characteristics**

Oil Resistance:	IEC 60811-2-1
Max Recommended Pulling Tension:	80 N
Min Bend Radius (W/o Pulling Strength):	80 mm
Min Setting Radius:	40 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 7
ANSI Compliance:	ANSI/TIA/EIA 568-C.2 (2009)

# **Applicable Environmental and Other Programs**

EU RoHS Compliance Date (yyyy-mm-dd):	2016-01-22	

#### Flammability, LS0H, Toxicity Testing

CSA Flammability:	FT2

#### **Part Number**

#### Variants

Item #	Color
74004PU.01305	Black
74004PU.01500	Black
74004PU.01B100	Black

Patent: https://www.belden.com/resources/patents

#### **History**

Revision Number:	1

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