

Part Number: 72001NH

# DataTuff® Industrial Ethernet Cat 5e Permanent Installation Cable

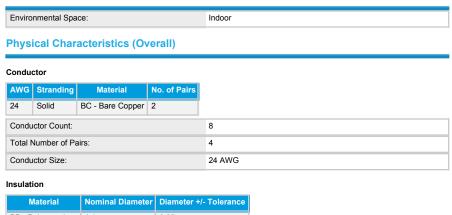


## **Product Description**

DataTuff Industrial ETHERNET Cat 5e 2 Pair, 24 AWG, Overall Foil + 80% Braid, LSNH Outer Jacket, UL AWG 21286

### **Technical Specifications**

### **Product Overview**



	Material	Nominal Diameter	Diameter +/-	- Tolerance
F	PP - Polypropylene	1.1 mm	0.05 mm	
E	Bonded-Pair:			No

### **Color Chart**

Number	Color
Pair 1	White/Blue & Blue
Pair 2	White/Orange & Orange

### **Outer Shield Material**

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

### **Outer Jacket Material**

Material	Color	Nominal Diameter	Diameter +/- Tolerance	Min. Wall Thickness
LSZH / FRNC	Black	6 mm	0.3 mm	0.8 mm

### **Construction and Dimensions**

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

## Cabling

Description	
2 pairs and 2 fillers twisted to cable core covered with a polyester for	
Min Elongation at Breakof Jacket:	100 %
Min Tensile Strength of Jacket:	9 MPa

### **Electrical Characteristics**

### Conductor DCR

Max. Conductor DCR	Max. Conductor Loop	Max. DCR Unbalanced Within Pair [%]
93.8 Ohm/km	19 Ohm/1000ft	2 Ohm

## Capacitance

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

## Impedance

No	ominal Characteristic Impedance	Nominal Characteristic Tolerance	Nominal Input Impedance
10	0 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:	-5°C To +50°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):	60 mm
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
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ANSI Compliance:	ANSI/TIA/EIA 568-C.2 (2009)
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## **Applicable Environmental and Other Programs**

EU RoHS Compliance Date (yyyy-mm-dd):	2016-01-04
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## Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
Amount of Halogen acc. to IEC 60754-1 & EN502	267-1: Zero

## **Part Number**

## Variants

Item #	Color
72001NH.02305	Black
72001NH.02500	Black
72001NH.02B100	Black

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

## History

Revision Number:	2

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