

Part Number: 74001NH

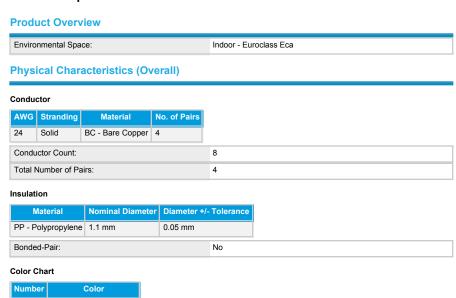
DataTuff® Industrial Ethernet Cat 5e Permanent Installation Cable



Product Description

DataTuff Industrial ETHERNET, CAT5E, 4PR, 1 Gb/s, AWG 24(1), Solid Conductor, Foil+ 80% Braid, No Halogen Jacket, UL AWM 21286

Technical Specifications



Outer Shield Material

White/Blue & Blue

White/Orange & Orange

White/Green & Green
White/Brown & Brown

Pair 1

Pair 2

Pair 3

Pair 4

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
LSZH / FRNC (UV stabilised and oil resistant)	6.8 mm	0.3 mm	0.8 mm

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: 1

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 %

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:	-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):	70 mm
Min Setting Radius:	35 mm

Standards

ISO/IEC Compliance:	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011 and ISO/IEC 24702
CPR Euroclass:	Eca
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):	2004-01-01	

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color	Length
74001NH.01305	Black	305 m
74001NH.01500	Black	500 m
74001NH.01B100	Black	100 m
74001NH.00305	Black	305 m
74001NH.00500	Black	500 m

74001NH.00B100	Black	100 m
74001NH.04500	Blue	500 m
74001NH.08500	Blue	500 m
74001NH.02500	Green	500 m
74001NH.03500	Light Blue	500 m
74001NH.06500	Light Blue	500 m
74001NH.06B100	Light Blue	100 m
74001NH.05500	Pink	500 m
74001NH.07500	Pink	500 m

Patent:

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

History

Update and Revision:

Revision Number: 0.174 Revision Date: 09-02-2019

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