

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

Physical Characteristics (Overall)

Conductor			
AWG	Stranding	Material	No. of Pairs
24	Solid	BC - Bare Copper	2
Conductor Count:			
Total N	Total Number of Pairs:		

Insulation

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

Color Chart

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

Outer Shield Material

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

Outer Jacket Material

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

Construction and Dimensions

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

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):	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
ANSI Compliance:	ANSI/TIA 568.2-D (2018)

Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU RoHS Compliance Date (yyyy-mm-dd):	2016-01-04

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
72001NH.02305	Black	305 m
72001NH.02500	Black	500 m
72001NH.02B100	Black	100 m

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

History

Update and Revision:	Revision Number: 0.167 Revision Date: 10-21-2019

© 2019 Belden, Inc

All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief

osure is not to be considered a ations based on their individual	ormation is designed only as a general warranty or quality specification. Regul usage of the product.	atory information is for guidance p	purposes only. Product users are	responsible for determining the app	of legislation an