



Product: [74046NH](#)

DataTuff Ind SPE 400m10Mb 22AWG 7 STR U/UTP LSZH

Product Description

DataTuff Ind SPE 400m10Mb 22AWG 7 STR U/UTP LSZH Cable

Technical Specifications

Product Overview

Suitable Applications:	Long distance sensors in harsh environment at Industrial edge, 1 single pair Ethernet up to 20 MHz. IEEE 802.3cg(10Base-T1L)
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Construction Details

Conductor

Size	Stranding	Material
22 AWG	7x0.25 mm	BC - Bare Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	1.38 mm (0.0543 in)	White, Blue

Outer Jacket

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

Overall Cable Diameter (Nominal): 4.10 mm (0.161 in)

Electrical Characteristics

Electricals

Max. Conductor DCR
55.4 Ω /km

Table Notes: Min. Resistance unbalance within a pair is 2%

High Frequency

Frequency	Max. Insertion Loss (Attenuation)	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Nom. Characteristic Impedance [Ohm]
0.1	1.37 dB	15	50	
1 MHz	2.08 dB	15	50	
4 MHz	3.81 dB	23	50	
10 MHz	5.93 dB	25	50	
20 MHz	8.38	25	50	100

Table Notes: Characteristic Impedance at 20 MHz with tolerance of ± 15

Voltage

UL Voltage Rating	Breakdown Voltage
300 V	2KVac/min

Mechanical Characteristics

Temperature

Operating
-40 to + 80

Bulk Cable Weight:	20.81 kg/km (13.98 lbs/1000ft)
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Standards and Compliance

AWM Compliance:	AWM 21307
Data Category:	SPE 10 Mbps
ISO/IEC Compliance:	IEC 61156-13, UL 758, IEC 61034-2 - Smoke Density Min Transmittance = 70%
European Halogen Free Standards:	IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 10 , IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
APAC Compliance:	China RoHS II (GB/T 26572-2011)

History

Update and Revision:	Revision Number: 0.23 Revision Date: 07-08-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
74046NH-A500	Black	Reel	500 m	8719605218223

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