



Product: [74041NH](#)

DataTuff Ind SPE 1km10Mb 22AWG STR SF/UTP LSZH

Product Description

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Technical Specifications

Product Overview

Suitable Applications:	Long distance sensors in harsh environment at Industrial edge, 1 single pair Ethernet up to 20 MHz
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Construction Details

Conductor

Size	Stranding	Material
22 AWG	7x0.25 mm	TC - Tinned Copper

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	1.65 mm (0.0650 in)	White, Blue

Outer Shield

Shield Type	Material	Coverage	Notes
Tape	Polyester	100%	
Tape	Bi-Laminate (Alum+Poly)	100%	
Braid	Tinned Copper (TC)	80%	23 AWG Stranded Drain wire along with shielding

Outer Jacket

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

Overall Cable Diameter (Nominal):	5.3 mm (0.21 in)
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Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance	Nom. Characteristic Impedance
59.4 Ohm/km at 20°C	160 pF/100m	100 Ohm

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Min. ELCTL [dB]	Max. Surface Transfer Impedance	Nom. Characteristic Impedance [Ohm]
0.1	1.5	15	50	55		
1	2.2	20	40	35	50	
4	3.9	23	31	23	75.9	
10	6.1	25	25	15	100	
20	8.6	25	20.5	9	154.9	
						100

Voltage

UL Voltage Rating	Breakdown Voltage

300 V	2 Kvac/min.
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Mechanical Characteristics

Temperature

Operating
-20°C To +80°C

Standards and Compliance

Flammability / Reaction to Fire:	FT2
AWM Compliance:	AWM 21307
ISO/IEC Compliance:	IEC 61156-xx, UL 758
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Product Notes

Notes:	Flame Test: EN50575 Dca-s2,d2,a2
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History

Update and Revision:	Revision Number: 0.8 Revision Date: 05-31-2024
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