



Product: [74040NH](#) 

DataTuff Ind SPE 1km10Mb 18AWG SO 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 supporting a bandwidth of 10 Mbit/s (e.g. 10BASE-T1L) over up to 1000 m. The maximum trunk cable length can reach 1000m and 200m for spur cable length. 2-WISE Ethernet-APL standards and intrinsic safety environments
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Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
18 AWG	Solid	BC - Bare Copper	1

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	2.45 mm (0.0965 in)	White & Blue

Outer Shield

Shield Type	Material	Coverage
Tape	Polyester	100%
Tape	Bi-Laminate (Alum+Poly)	100%
Braid	Tinned Copper (TC)	80%

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	6.60 mm (0.260 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance	Nom. Characteristic Impedance
21.4 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. ELTCTL [dB]	Max. Surface Transfer Impedance	Nom. Characteristic Impedance [Ohm]
0.1	1	15	50	55		
1	1.4	20	40	35	50	
4	2.6	23	31	23	75.9	
10	4.1	25	25	15	100	
20	5.7	25	20.5	9	154.9	
						100

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating
-30°C To +80°C

Standards and Compliance

Flammability / Reaction to Fire:	FT2
AWM Compliance:	AWM 21307
CEC / C(UL) Compliance:	.
Data Category:	SPE 10 Mbps
ISO/IEC Compliance:	IEC 61156-13, UL 758
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, IEC 61034-2 - Smoke Density Min. Transmittance = 60

Product Notes

Notes:	Conform to intrinsic safety (IS): IEC TS 60079-47 (2-WISE) standard, @ 1KHz, Capacitance: 45~200 nF/kmLoop Resistance: 15~150 ohm/km Loop Inductance: 0.4~1.0mH/km
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History

Update and Revision:	Revision Number: 0.98 Revision Date: 02-20-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
74040NH-A500	Black	Reel	500 m	8719605191618
74040NH-A1500	Black	Reel	1,500 m	8719605189219
74040NH 006500M	Blue	Reel	500 m	
74040NH 0061500M	Blue	Reel	1,500 m	

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