Belden



Product: 74031NH

DataTuff Ind SPE 40mGb 22AWG SO SF/UTP LSZH

Product Description

DataTuff Ind SPE 40mGb 22AWG SO SF/UTP LSZH

Technical Specifications

Product Overview

Suitable Applications:	Mass transit platforms, 1 single pair Ethernet up to 600 MHz

Construction Details

Conductor

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

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	1.75 mm (0.0689 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)	5.10 mm (0.201 in)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance	Nom. Characteristic Impedance
54.3 Ohm/km at 20°C	120 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	Min. Coupling Attenuation [dB]	Nom. Characteristic Impedance [Ohm]
1	2.1	20	40	40	50		
4	3.7	23	40	28	75.9		
10	5.8	25	35	20	100		
20	8.2	25	30.5	14	154.9		
30	10.1	23.76	27.8	10.5	200	85	
100	18.5	20.1	20	5		85	
600	47.1	17.3	8.3	5		69.4	
1000						65	
							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
Data Category:	SPE 1000 Mbps
ISO/IEC Compliance:	IEC 61156-11, 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

History

Update and Revision:	Revision Number: 0.83 Revision Date: 02-20-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
74031NH 0101000	Black	Reel	1,000 ft	
74031NH-C500	Blue, Light	Reel	500 m	8719605192271
74031NH 0061000	Blue, Light	Reel	1,000 ft	

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