



Product: [74005NH](#) 

DataTuff® 7, 4PR #26 Str BC, PO ins, S/FTP, LSNH Jkt, AWM 20851

Product Description

DataTuff® 7, 4 Pair AWG 26 Bare Copper - Stranded, Polyethylene insulation, S/FTP - Overall Braid / Individual Foil shielding, LSZH / FRNC jacket , AWM 20851

Technical Specifications

Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc.
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Construction Details

Conductor

Size	Stranding	Material	Number of Pairs	Number of Element
26 AWG	7x0.16 mm	BC - Bare Copper	4	8

Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene (Foam)	1.05 mm (0.0413 in)	White & Blue, White & Orange, White & Green, White & Brown

Cable Core

Description
4 pairs twisted to cable core

Inner Shield

Element	Shield Type	Material
Individual Shielded Pair	Tape	Bi-Laminate (Alum+Poly)

Table Notes:	Aluminum outside
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Outer Shield

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	65%

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	6.8 mm (0.27 in)

Overall Cable Diameter (Nominal):	6.8 mm (0.27 in)
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Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
145 Ohm/km	56 pF/m (17 pF/ft)	160 pF/100m	100 Ohm

Delay

Max. Delay Skew	Nom. Velocity of Prop.
40 ns/100m	70%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]
1	2.7	80	77			
4	5.5	80	77	80	77	23
10	8.5	80	77	74	71	25
16	10.8	80	77	69.9	66.9	25
20	12.1	80	77	68	65	25
31.25	15.2	80	77	64.1	61.1	23.6
62.5	21.8	75.1	72.1	58.1	55.1	21.5
100	27.8	72.4	69.4	54	51	20.1
200	40.1	67.9	64.9	48	45	18
300	50	65.3	62.3	44.5	41.5	17.3
600	73.3	60.8	57.8	38.4	35.4	17.3

Transfer Impedance

Frequency	Max. Transfer Impedance
10 Mhz	Max. 5 mOhm/m

Voltage

UL Voltage Rating	Voltage Rating
30 V RMS	450 V DC and 300 V AC

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-40°C to +80°C	-15°C To +60°C	-40°C to +80°C

Bend Radius

Stationary Min.	Installation Min.
30 mm (1.2 in)	65 mm

Max. Pull Tension:	80 N (18 lbf)
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Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca, Sunlight Resistance, Oil Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2 and IEC 60332-3-24
CPR Compliance:	CPR Euroclass: Eca
AWM Compliance:	AWM 20851
Data Category:	Category 7
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	EN 50173-1
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark

History

Update and Revision:	Revision Number: 0.254 Revision Date: 05-19-2022
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
74005NH.07500	Black	Reel	500 m	8719605013262
74005NH.11500	Blue	Reel	500 m	8719605013309
74005NH.01500	Blue	Reel	500 m	
74005NH.10500	Gray, RAL 7032	Reel	500 m	8719605013293
74005NH.08500	Green	Reel	500 m	8719605013279
74005NH.09500	Orange	Reel	500 m	8719605013286
74005NH.13500	Red	Reel	500 m	8719605013323
74005NH.06500	Red	Reel	500 m	

74005NH.12500	Yellow	Reel	500 m	8719605013316
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