



**Product:** <u>74005NH</u> ☑

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**

### **Physical Characteristics (Overall)**

Condu	ctor				
AWG	Stranding	Material	Constru	ction n x D	No. of Pairs
26	Stranded	BC - Bare Copper	7x0.16 m	nm	4
Condu	uctor Count:				
Total N	Number of Pa	airs:			
Insulat	ion				
Material Nominal Diameter Diameter +/- Tolerance					
PE - P		(Foam) 1.05 mm		0.05 mm	Totorance
		, , , , ,			
Bonded-Pair:					
Color C	Color Chart				
Numb	er Co	or			
Pair 1	White &	Blue			

# Inner Shield Material

White & Orange

White & Green
White & Brown

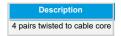
Type	Material Material	
Tape	Bi-Laminate (Alum+Poly)	
Table	Table Notes:	

### Cabling

Pair 2

Pair 3

Pair 4



#### **Outer Shield Material**

Туре	Material	Min. Coverage [%]	
Braid	Tinned Copper (TC)	65%	

#### **Outer Jacket Material**

	Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)		6.8 mm	0.3 mm	0.5 mm

### **Construction and Dimensions**

Min Elongation at Breakof Conductors:	10 %
Min Elongation at Breakof Insulation:	100 %

Min Elongation at Breakof Jacket:	100 %
Min Tensile Strength of Jacket:	9 MPa

## **Electrical Characteristics**

### Conductor DCR

Max. Conductor DCR	Max. DCR Unbalanced Within Pair [%]		
145 Ohm/km	2 %		

#### Capacitance

	Max. Capacitance Unbalance	Max. Mutual Capacitance
ľ	1.6 pF/m	56 pF/m

## Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance	Nominal Input Impedance
100 Ohm	5 Ohm	100 +/- 15 Ohm

# Delay

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]		
40 ns/100m	70%		

### High Freq

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

## Transfer Impedance

Frequency [MHz]	Transfer Impedance
10 Mhz	Max. 5 mOhm/m

## Current

Element	Max. Recommended Current [A]
Conductor	1 A

### Voltage

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

## **Temperature Range**

Installation Temp Range:	-15°C To +60°C
Storage Temp Range:	-40°C To +80°C
Operating Temp Range:	-40°C To +80°C

## **Mechanical Characteristics**

Oil Resistance:	IEC 60811-2-1
Max. Pull Tension:	80 N
Min Bend Radius (W/o Pulling Strength):	65 mm
Min Setting Radius:	30 mm

#### **Standards**

UL AWM Style Compliance:	AWM 20851
ISO/IEC Compliance:	ISO/IEC 11801-1
CPR Euroclass:	Eca

CENELEC Compliance:	EN 50173-1
Data Category:	Category 7
ANSI Compliance:	ANSI/TIA 568.2-D (2018)

#### **Applicable Environmental and Other Programs**

Environmental Space:	Indoor - Euroclass Eca
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01

#### Suitability

Suitability - Oil Resistance:	Yes	
Suitability - Sunlight Resistance:	Yes	

#### Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
IEC 60754-1 (EN50267-1)- 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

#### **Part Number**

#### Variants

Item #	Color	Put-Up 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

#### **History**

Update and Revision:	Revision Number: 0.243 Revision Date: 09-08-2021

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