



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, Polyolefin (PO, PE, PP) insulation, S/FTP - Overall Braid / Individual Foil shielding, LSZH / FRNC jacket , AWM 20851

Technical Specifications

Physical Characteristics (Overall)

AWG Stranding Material Construction n x D No. of Pairs		•	•	
26 Stranded BC - Bare Copper 7x0.16 mm 4 Conductor Count: 8 Total Number of Pairs: 4 Insulation Material Nominal Diameter Diameter +/- Tolerance	onductor			
Conductor Count: 8 Total Number of Pairs: 4 **Material Nominal Diameter Diameter +/- Tolerance PO - Polyolefin (Foam) 1.05 mm 0.05 mm	AWG Stranding	Material C	Construction n x D	No. of Pair
Total Number of Pairs: A Insulation Material Nominal Diameter Diameter +/- Tolerance	26 Stranded BC	- Bare Copper 7	7x0.16 mm	4
Material Nominal Diameter Diameter +/- Tolerance PO - Polyolefin (Foam) 1.05 mm 0.05 mm	Conductor Count:			
Material Nominal Diameter Diameter +/- Tolerance PO - Polyolefin (Foam) 1.05 mm 0.05 mm	Total Number of Pairs:			
Material Nominal Diameter Diameter +/- Tolerance PO - Polyolefin (Foam) 1.05 mm 0.05 mm	nsulation			
PO - Polyolefin (Foam) 1.05 mm 0.05 mm		Nominal Diame	eter Diameter +/- T	olerance
				onoranio c
DOTIGEG-F AII.				
	boliueu-raii.			
	Number Color			

Pair 1	White & Blue
Pair 2	White & Orange
Pair 3	White & Green
Pair 4	White & Brown

Inner Shield Material

-Laminate (Alum+Poly)	Table
	Таре

Outer Shield Material

Type	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
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
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
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 μS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3

Part Number

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	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: 0.222 Revision Date: 12-18-2020	ı
opuate and Revision.	Revision Number, 0.222 Revision Date, 12-16-2020	

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.