



**Product:** [74005E](#)

DataTuff® 7, 4PR #26 Str BC, PO ins, S/FTP, PVC jkt, AWM 20121

## Product Description

DataTuff® 7, 4 Pair AWG 26 Bare Copper - Stranded, Polyolefin (PO, PE, PP) insulation, S/FTP - Overall Braid / Individual Foil shielding, PVC jacket , AWM 20121

## Technical Specifications

### Product Overview

Suitable Applications:	harsh environment, IIoT, factory or process automation, video, audio, data communication, etc. Not rodent protected.
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### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
26	Stranded	BC - Bare Copper	4

Conductor Count:	8
Total Number of Pairs:	4

#### Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PO - Polyolefin (Foam)	1.05 mm	0.05 mm

Bonded-Pair:	No
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#### Color Chart

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

#### Inner Shield Material

Type	Layer	Material
Tape	Aluminium / Polyester	Bi-Laminate (Alum+Poly)

#### Outer Shield Material

Type	Material
Braid	Tinned Copper (TC)

#### Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PVC - Polyvinyl Chloride	6.8 mm	0.2 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:	12.5 MPa

## Electrical Characteristics

### Conductor DCR

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

### Capacitance

Max. Capacitance Unbalance	Max. Mutual Capacitance
1,600 pF/m	56 pF/m

### Impedance

Nominal Characteristic Impedance	Nominal Characteristic Tolerance
100 Ohm	5 Ohm

### Delay

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

### High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)
1 MHz	2.7 dB/100m
4 MHz	5.5 dB/100m
10 MHz	8.5 dB/100m
16 MHz	10.8 dB/100m
20 MHz	12.1 dB/100m
31.25 MHz	15.2 dB/100m
62.5 MHz	27.8 dB/100m
100 MHz	27.8 dB/100m
200 MHz	40.1 dB/100m
300 MHz	50 dB/100m
600 MHz	73.3 dB/100m

### Current

Max. Recommended Current [A]
1 A

### Voltage

UL Voltage Rating
30 V RMS

## 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 20121
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
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EU RoHS Compliance Date (yyyy-mm-dd):	2014-01-14
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## Suitability

Suitability - Burial:	No
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes - Black only
Suitability - Sunlight Resistance:	Yes - Black only

## Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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## Part Number

### Variants

Item #	Color	Putup Type	Length	EAN
74005E.01500	Black	Reel	500 m	8719605013255

## History

Update and Revision:	Revision Number: 0.149 Revision Date: 12-18-2020
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