

Part Number: 74005PU

INDUSTRIAL ETHERNET EUROPE



Product Description

4 pair CAT 7 S/FTP flex AWG26 PUR

Technical Specifications

Product Overview

Environmental Space:	Indoor
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Construction n x D	No. of Pairs
26	Stranded	Bare copper	7x0.16 mm	4

Total Number of Conductors:	8
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Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
Foam skinned Polyethylene	1.05 mm	0.05 mm

Color Chart

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

Inner Shield Material

Type	Material
Tape	Aluminum / Polyester

InnerShield, Table Note:	Aluminum outside
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Outer Shield Material

Type	Material	Min. Coverage [%]
Braid	Tinned copper	65 %

Outer Jacket Material

Material	Color	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PUR (Halogenfree and flame-retardant)	Black	6.8 mm	0.3 mm	0.5 mm

Electrical Characteristics

Capacitance

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

Shielding:	S/FTP - Overall Braid / Individual Foil
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Construction and Dimensions

Total Number of Pairs:	4
Min Elongation at Breakof Conductors:	10(%)
Min Elongation at Breakof Insulation:	100(%)
Min Elongation at Breakof Jacket:	100(%)
Min Tensile Strength of Jacket:	15(MPa)

Conductor DCR

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

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	58 dB	55 dB	23 dB
10 MHz	8.5 dB/100m	80 dB	77 dB	50 dB	47 dB	25 dB
16 MHz	10.8 dB/100m	80 dB	77 dB	46 dB	43 dB	25 dB
20 MHz	12.1 dB/100m	80 dB	77 dB	44 dB	41 dB	25 dB
31.25 MHz	15.2 dB/100m	80 dB	77 dB	40 dB	37 dB	23.6 dB
62.5 MHz	27.8 dB/100m	75.1 dB	72.1 dB	34 dB	31 dB	21.5 dB
100 MHz	27.8 dB/100m	72.4 dB	69.4 dB	30 dB	27 dB	20.1 dB
200 MHz	40.1 dB/100m	67.9 dB	64.9 dB	24 dB	21 dB	18 dB
300 MHz	50 dB/100m	65.3 dB	62.3 dB	20 dB	17 dB	17.3 dB
600 MHz	73.3 dB/100m	60.8 dB	57.8 dB	14 dB	11 dB	17.3 dB

Current

Element	Max. Recommended Current [A]
Conductor	1 A

Voltage

Voltage Rating [V]
450 V D.C. and 300 V A.C. V

Transfer Impedance

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

Oil Resistance:	IEC 60811-2-1
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Applicable Standards & Environmental Programs

CENELEC Compliance:	EN 50173-1 Ed. 3:2011
Patent:	http://www.belden.com/p

Standards

ISO/IEC Compliance:	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011
ANSI/TIA Category:	Category 7
ANSI Compliance:	ANSI/TIA/EIA 568-B.2-1 (2002)

Flame Test

CSA Flammability:	FT2
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Safety

Amt of Halogen IEC 60754-1 /EN50267-1:	Zero
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Mechanical Characteristics

Storage Temp Range:	-40°C To +80°C
Installation Temp Range:	-15°C To +60°C
Operating Temp Range:	-40°C To +80°C
Max Recommended Pulling Tension:	80(N)
Min Bend Radius (W/o Pulling Strength):	65(mm)

Temperature Range

Min Setting Radius:	30(mm)
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History

Revision Number:	6
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Variants

Item #	Color
74005PU.02305	BLACK
74005PU.02500	BLACK
74005PU.02B100	BLACK
74005PU.01500	BLUE, WATER

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