



Part Number: 74005PU.00305
INDUSTRIAL ETHERNET EUROPE

Product Description

4 pair CAT 7 S/FTP flex AWG26 PUR

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Construction n x D	No. of Pairs
26	Stranded	Bare copper	7x0.16 mm	4
Total Number of Conductors:			8	
Total Number of Pairs:			4	
Min Elongation at Breakof Conductors:			10 %	

Insulation:

Material	Nominal Diameter	Diameter +/- Tolerance
Foam skinned Polyethylene	1.05 mm	0.05 mm
Min Elongation at Breakof Insulation:		100 %

Color Chart 1:

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

Innershield:

Element	Type	Material
	Tape	Aluminum / Polyester
Aluminum outside		

Outershield 1:

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

Outerjacket 1:

Material	Color	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PUR (Halogenfree and flame-retardant)	Black	6.8 mm	0.3 mm	0.5 mm
Min Elongation at Breakof Jacket:			100 %	
Min Tensile Strength of Jacket:			15 MPa	

Electrical Characteristics

Conductor DCR:

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

Capacitance:

Max. Capacitance Unbalance	Max. Mutual Capacitance
1.6 pF/m	56 pF/m
Min Insulation Resistance:	
5000 MOhm*km	

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

Use

Oil Resistance:	IEC 60811-2-1
Max Recommended Pulling Tension:	80 N

Safety

CSA Flammability:	FT2
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Temperature Range

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

Mechanical Characteristics

Min Bend Radius (W/o Pulling Strength):	65 mm
Min Setting Radius:	30 mm

Standards

ISO/IEC Compliance:	IEC 11801 2nd edition (2002) and ISO/IEC 11801 Amendment 2 (2010)
ANSI Compliance:	ANSI/TIA/EIA 568-B.2-1 (2002)
GENELEC Compliance:	EN 50173-1 (2002) and EN 50173-1 Amendment 1 (2009)

History

Revision Number:	6
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Product Variants

Part Number	Color	Put-Up Type	Length
74005PU.00305	BLACK	Reel	305 m
74005PU.00500	BLACK	Reel	500 m
74005PU.00B100	BLACK	Flat Box	100 m
74005PU.01500	BLUE, WATER	Reel	500 m
74005PU.00305	BLACK	Reel	305 m
74005PU.00305	BLACK	Reel	500 m
74005PU.00305	BLACK	Flat Box	100 m
74005PU.00305	BLACK	Reel	500 m
74005PU.00305			

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