



Part Number: 70008PU
INDUSTRIAL ETHERNET EUROPE

Product Description

Profinet Type C (Trailing)

Product Specifications

AG.Filter Attributes

Total Number of Conductors:	4
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Cabling1

Description@Cabling1:	1 quad with center filler
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Technical Specifications

AG_0401

CSA Flammability:	FT2
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Applicable Patents

Patent:	http://www.belden.com/p
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Bend Radius

Min No. of Drag Chain Cycles:	5000000
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Drag Chain Parameters:	a= 3m/s ² v= 3 m/s and r= 60 mm
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General Electrical Parameters

General Electrical Parameters Header:	Reference standard: ISO/IEC 11801 ed 2.0, Cat 5e
Dielectric Strength Cond-Cond (2 sec.):	2.5 kV DC
Dielectric Strength Cond-Screen (2 sec.):	2.5 kV DC

Global Standard

ISO/IEC Compliance:	IEC 11801 2nd edition (2002) and ISO/IEC 11801 Amendment 2 (2010)
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History

Revision Date (yyyy-mm-dd):	2015-12-21
Revision Number:	5

Use

Oil Resistance:	IEC 60811-2-1
Torsion Test: Min Number of Torsions:	1000000
Torsion Test: Description:	+/- 180° ,12x/min over 1mtr

Impedance:

Frequency [MHz]	Nominal Characteristic Impedance	Nominal Characteristic Tolerance
1 - 100	100 Ohm	15 Ohm

Conductor DCR:

Max. Conductor DCR
57.1 Ohm/km

Color Chart 1:

Number	Color
Quad 1	White & Blue & Yellow & Orange

Delay:

Max. Delay	Nominal Velocity of Propagation (VP) [%]
530 ns/100m	68 %

Voltage:

Voltage Rating [V]
300 V

High Freq:

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. SRL (Structural Return Loss)
1 MHz	2.1 dB/100m	65 dB	64 dB	
4 MHz	4 dB/100m	56 dB	52 dB	23 dB
10 MHz	6.3 dB/100m	50 dB	44 dB	25 dB
16 MHz	8 dB/100m	47 dB	40 dB	25 dB
31.25 MHz	11.4 dB/100m	43 dB	34 dB	23.6 dB
62.5 MHz	16.5 dB/100m	38 dB	28 dB	21.5 dB
100 MHz	21.3 dB/100m	35 dB	24 dB	20.1 dB

Transfer Impedance:

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

Innerjacket:

Material	Nominal Diameter
FRNC / LSZH Bedding	4.3 mm

Insulation:

Material	Nominal Diameter	Diameter +/- Tolerance
Polyolefin	1.63 mm	0.05 mm

Outerjacket 1:

Material	Color	Nominal Diameter	Diameter +/- Tolerance	Separator Material
PUR (Halogenfree)	Green (RAL 6018)	6.5 mm	0.2 mm	Non-woven foil

Conductor:

AWG	Stranding	Material	Construction n x D	No. of Conductors
22	Stranded	Tinned copper	19x0.15 mm	4

Other Electrical Information:

Dielectric Strength Cond-Cond (2 sec.)	2.5 kV DC
Dielectric Strength Cond-Screen (2 sec.)	2.5 kV DC

Outershield 1:

Type	Material	Min. Coverage [%]
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Tape	Aluminum / Polyester	
Braid	Tinned copper	85 %

Product Variants

Part Number	Color	Put-Up Type	Length
70008PU		Reel	1000 m
70008PU.00305	GREEN	Reel	305 m
70008PU.00500	GREEN	Reel	500 m
70008PU.00B100	GREEN	Flat Box	100 m
70008PU	GREEN	Reel	1000 m
70008PU	GREEN	Reel	305 m
70008PU	GREEN	Reel	500 m
70008PU	GREEN	Flat Box	100 m
70008PU			

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