



Part Number: 70008PU

DataTuff® PROFINET Cat 5e Type C - Continuous Flexing Cable, Trailing AWM 20549

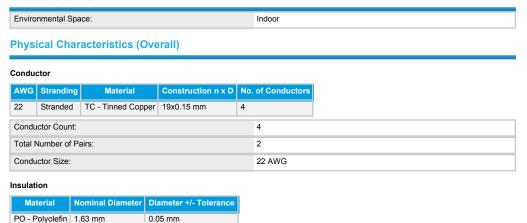
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Product Description

PROFINET Category 5e, 2 Pair (Quad), AWG 22 (19), Trailing, Overall Foil+ 85% Braid, PUR No Halogen Outer Jacket

Technical Specifications

Product Overview



Color Chart

Number	Color
Quad 1	White & Blue & Yellow & Orange

Inner Jacket Material

Material	Nominal Diameter
FRNC / LSZH Bedding	4.3 mm

Outer Shield Material

Type	Material	Min. Coverage [%]
Tape	Aluminum/Polyester	
Braid	TC - Tinned Copper	85 %

Outer Jacket Material

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

Construction and Dimensions

Cabling



Electrical Characteristics

Conductor DCR



Shielding:	Foil + Braid(s)

Impedance

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

Delay

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

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

Voltage

UL Voltage Rating	Voltage Rating [V]
300 V	300 V

Temperature Range

Installation Temp Range:	-5°C To +60°C
UL Temp Rating:	80°C
Storage Temp Range:	-40°C To +80°C
Operating Temp Range:	-40°C To +80°C
Operating Temp Range (Drag Chain Op):	-5°C To +60°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-2-1
Torsion Test: Min Number of Torsions:	1000000
Torsion Test: Description:	+/- 180° ,12x/min over 1mtr
Min No. of Drag Chain Cycles:	5000000
Drag Chain Parameters:	a= 3m/s2 v= 3 m/s and r= 60 mm

Standards

UL AWM Style:	UL AWM 20549
ISO/IEC Compliance:	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011
Data Category:	Category 5e

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01

Flammability, LS0H, Toxicity Testing

CSA Flammability:	FT2

Part Number

Variants

Item #	Color
70008PU.011000	Green
70008PU.01305	Green
70008PU.01500	Green
70008PU.01B100	Green

Patent:	https://www.belden.com/resources/patents
History	
Revision Number:	5

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