



Part Number: 70007PU

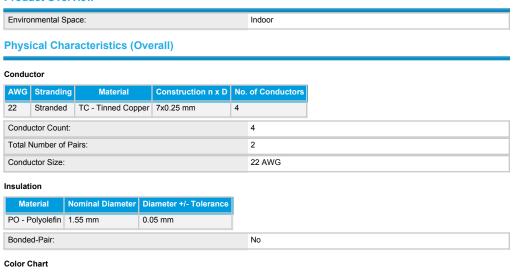
DataTuff® PROFINET Cat 5e Type B - Moderate Flexing Cable

## **Product Description**

PROFINET Category 5e, 2 Pair (Quad), AWG 22 (7), Overall Foil+ 85% Braid, PUR No Halogen Outer Jacket

## **Technical Specifications**

### **Product Overview**



Number	Color	
Quad 1	White & Blue & Yellow & Orange	

### Inner Jacket Material

Material	Nominal Diameter
PVC Bedding	4.1 mm

## **Outer Shield Material**

Type	Material	Thickness of Foil	Min. Coverage [%]
Tape	Aluminum/Polyester	50 / 23 μm	
Braid	TC - Tinned Copper		85 %

## **Outer Jacket Material**

Material	Color	Nominal Diameter	Diameter +/- Tolerance
PUR - Polyurethane	Green (RAL 6018)	6.5 mm	0.2 mm

### **Construction and Dimensions**

## Cabling



**Electrical Characteristics** 

## Conductor DCR



## 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	4.1 dB/100m	56 dB	52 dB	23 dB
10 MHz	6.5 dB/100m	50 dB	44 dB	25 dB
16 MHz	8.3 dB/100m	47 dB	40 dB	25 dB
31.25 MHz	11.7 dB/100m	43 dB	34 dB	23.6 dB
62.5 MHz	17 dB/100m	38 dB	28 dB	21.5 dB
100 MHz	22 dB/100m	35 dB	24 dB	20.1 dB

### Transfer Impedance

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

### Voltage

Voltage Rating [V]

## **Temperature Range**

Installation Temp Range:	-5°C To +50°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
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## **Standards**

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):	2015-12-14

# Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
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### **Part Number**

## Variants

Item #	Color
70007PU.01305	Green
70007PU.01500	Green

## History

Revision Number:	3	

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