



Product Description

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

Technical Specifications

Physical Characteristics (Overall)

AWG	Conductor AWG Stranding Material Construction n x D No. of Conductors					
				No. of conductors		
22	Stranded	TC - Tinned Copper	7x0.25 mm	4		
Condu	ctor Count:			4		
Total Number of Pairs:		2				

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
PO - Polyolefin	n 1.55 mm	0.05 mm
Bonded-Pair:		

Color Chart

Number	Color
Quad 1	White & Blue & Yellow & Orange

Inner Jacket Material

Material	Nominal Diameter
PVC Bedding	4.1 mm

Outer Shield Material

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

Outer Jacket Material

Material	Nominal Diameter	Diameter +/- Tolerance
PUR - Polyurethane	6.5 mm	0.2 mm

Electrical Characteristics

Conductor DCR

Max. Conductor DCR

57.1 Ohm/km

Impedance

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

Delay

Max. Delay Nominal Velocity of Propagation (VP) [%]

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
High Freq Table Note:			e standard: ISO/IEC 11801 e	d 2.0, Cat 5e
General Electrical Parameters Notes:		Reference	e standard: ISO/IEC 11801 e	d 2.0, Cat 5e

Transfer Impedance

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

Voltage

Voltage Rating [V] 300 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

IEC 60811-2-1

Mechanical Characteristics

Oil Resistance:

Standards	
ISO/IEC Compliance:	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011

Data Category:	Category 5e

Applicable Environmental and Other Programs

Environmental Space:	Indoor
EU RoHS Compliance Date (yyyy-mm-dd):	2015-12-14

Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:

IEC 60332-1-2

Part Number

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