

Part Number: BE43885

ECE R118 Approved PROFINET Cat 5e 100Mb/s

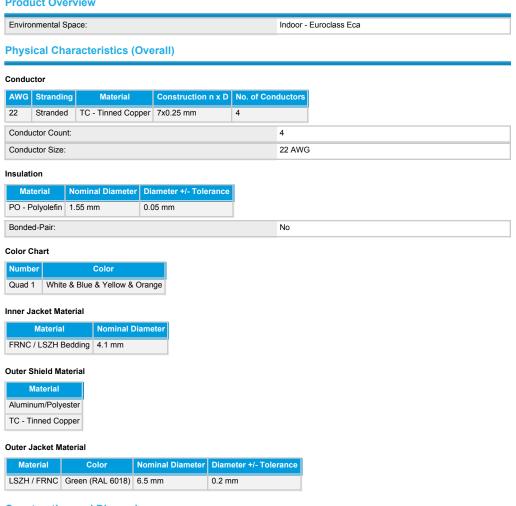


Product Description

ECE R118 Approved PROFINET Type B, Cat 5e, 100Mb/s, Quad, AWG 22(7), Stranded, Foil+ 85% Braid, No Halogen jacket, UL AWM 21286, Approved for Bus and Coach Applications

Technical Specifications

Product Overview



Construction and Dimensions

Cabling 1 quad with center filler

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) [%]
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	65.3 dB	64 dB	
4 MHz	4.1 dB/100m	56.3 dB	52 dB	23 dB
10 MHz	6.5 dB/100m	50.3 dB	44 dB	25 dB
16 MHz	8.3 dB/100m	47.2 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	38.4 dB	28 dB	21.5 dB
100 MHz	22 dB/100m	35.3 dB	24 dB	20.1 dB

Transfer Impedance

Frequency [MHz] 10 MHz

Temperature Range

Installation Temp Range:	-5°C To +50°C
Operating Temp Range:	-25°C To +70°C

Mechanical Characteristics

-1	Oil Resistance:	IEC 60811-2-1	
- 1.			

Standards

ISO/IEC Compliance:	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011
CPR Euroclass:	Eca
Data Category:	Category 5e

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2017-03-31	
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Flammability, LS0H, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2
Other Flammability:	ECE R118
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Patent:	https://www.belden.com/resources/patents

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