



Product: [NN00099](#)



Category 3 Cable, 50 Pair, U/UTP, LSZH Indoor CPR Eca

### Product Description

Category 3 Premise Horizontal Cable (16MHz), 50-pair, 24 AWG, HDPE insulation, U/UTP, LSZH jacket

### Technical Specifications

#### Product Overview

Suitable Applications:	Backbone cable; Support current and future Category 3 applications
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#### Construction Details

##### Conductor

Size	Stranding	Material	No. of Pairs
24 AWG	Solid	BC - Bare Copper	50

##### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.88 mm (0.035 in)	White & Blue, White & Orange, White & Green, White & Brown, White & Grey, Red & Blue, Red & Orange, Red & Green, Red & Brown, Red & Grey
		Blue, Orange, Green, Brown, Grey

Table Notes:	Telecom Color Order
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##### Cable Core

Description
5 units of 10 pairs covered with a polyester foil

##### Outer Jacket

Material	Nom. Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	16.5 mm (0.650 in)	Yes

Overall Cable Diameter (Nominal):	16.5 mm (0.650 in)
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#### Electrical Characteristics

##### Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
93.8 Ohm/km	66 pF/m (20 pF/ft)	330 pF/100m	100 Ohm

##### High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. SRL (Structural Return Loss) [dB]
0.772	2.2 dB/100m	45	43	12
1	2.6 dB/100m	44	41	12
4	5.6 dB/100m	34	32	12
8	8.5 dB/100m	29	27	12
10	9.7 dB/100m	28	26	12
16	13.1 dB/100m	25	23	10

##### Voltage

Voltage Rating
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72 V DC

## Mechanical Characteristics

### Temperature

Operating	Installation
-30°C to +60°C	0°C To +50°C

### Bend Radius

Stationary Min.	Installation Min.
82.5 mm (3.25 in)	247.5 mm

## Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
Data Category:	Category 3
ISO/IEC Compliance:	ISO/IEC 11801-1
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

## Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system.
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## History

Update and Revision:	Revision Number: 0.236 Revision Date: 02-03-2025
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	EAN
NN00099.001000	Gray	Reel	1,000 m	8719605103536

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