



Product: [NN00102](#)

Category 3 Cable, 25 Pair, U/UTP, LSZH Armoured Outdoor

Product Description

Category 3 Premise Horizontal Cable (16MHz), 25-pair, 24 AWG, HDPE insulation, U/UTP, jelly filled cable core, PE inner jacket, Armouring, LSZH jacket

Technical Specifications

Product Overview

Suitable Applications:	Backbone cable; Support current and future Category 3 applications, suitable for outdoor use
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Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
24 AWG	Solid	BC - Bare Copper	25

Insulation

Material	Nom. Insulation Diameter	Color Code	Notes
PE - Polyethylene	1 mm (0.039 in)	White & Blue, White & Orange, White & Green, White & Brown, White & Grey, Red & Blue, Red & Orange, Red & Green, Red & Brown, Red & Grey, Black & Blue, Black & Orange, Black & Green, Black & Brown, Black & Grey, Yellow & Blue, Yellow & Orange, Yellow & Green, Yellow & Brown, Yellow & Grey, Violet & Blue, Violet & Orange, Violet & Green, Violet & Brown, Violet & Grey	HDPE

Table Notes:	Telecom Color Order
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Cable Core

Description
2+8+15 pairs twisted in concentric layers filled with jelly compound and covered with a crepe paper

Inner Jacket

Material	Nom. Diameter	Color
PE - Polyethylene	15.1 mm (0.594 in)	Black

Outer Shield

Shield Type	Material
Tape	EquiBlock®

Armor

Armor Type & Material
DST - Double Steel Tape

Table Notes:	FE/ZN tapes spirally wrapped
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Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	21 mm (0.83 in)

Overall Cable Diameter (Nominal):	21 mm (0.83 in)
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Electrical Characteristics

Electricals

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

Mechanical Characteristics

Temperature

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

Bend Radius

Stationary Min.	Installation Min.
105 mm (4.13 in)	315 mm

Bulk Cable Weight:	510 kg/km
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Standards and Compliance

Environmental Suitability:	Outdoor
Data Category:	Category 3
ISO/IEC Compliance:	ISO/IEC 11801-1
European Directive Compliance:	EU CE 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: 0.247 Revision Date: 09-04-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
NN00102.00500	Black	Reel	500 m	8719605103598

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