

Product: <u>1633NHC</u> ☑ Category 5e Cable, 4 Pair, SF/UTP, LSZH Indoor 60332-3-25

Product Description

Category 5e Premise Horizontal Cable (100MHz), 4 Pair, 23 AWG Solid Bare Copper Conductors, SF/UTP, FRNC/LSZH-C jacket

Technical Specifications

Product Overview

Suitable Appli	cations:	Horizontal and	I building back	kbone cable; Support	current and future Category 5e a	applications, such as: 1000B	ase-T (Gigabit Ethernet	, 100 Base-T, 10 Base-T, FDDI, ATM
Constructi	on Details							
Conductor								
	Olar Otrandian	Meterial	No67					
Element	Size Stranding	Material BC - Bare Cor		Pairs No. of Elemen	ts			
Individual Pair	24 AVVG Solid	BC - Bare Cop	pper 4	0				
Insulation								
Element	Material N	lom. Insulation	Diameter		Color Code			
Individual Pair	PE - Polyethylene 1	.05 mm (0.0413	in) W	/hite/Blue & Blue, Whi	te/Green & Green, White/Orang	e & Orange, White/Brown &	Brown	
Cable Core								
	Description							
4 pairs twisted	d together covered with	a polyester foil						
	-							
Outer Shield								
Shield Type	Material	Coverage	Drainwire 1	Гуре				
Таре	Bi-Laminate (Alum+Po		26 AWG (Sol	id) TC				
Braid	Tinned Copper (TC)	40%						
Table Notes:		Aluminum faci	ng outside in o	contact with drain wire	e			
Outer Jacket								
	Material		Nom. Diam	eter				
LSZH - Low S	moke Zero Halogen (Fl	ame Retardant)	6.3 mm (0.2	5 in)				
Overall Cable	Diameter (Nominal):	6.3 mm (0.25	in)					
			,					
Electrical (Characteristics							
Electricals								
Max. Conduc	tor DCR Max. Mutual	Capacitance	Max. Capacit	ance Unbalance No	om. Characteristic Impedance			
95 Ohm/km	56 pF/m (17	pF/ft)	160 pF/100m	10	0 Ohm	1		
Delay								
Max. Delay S	kew Nom. Velocity of	f Prop.						
45 ns/100m	69%							
	00.0							

High Frequency

Frequency	Max. Insertion Loss	Min. NEXT	Min. PSNEXT	Min. ACR	Min. PSACR	Min. ACRF	Min. PSACRF	Min. RL (Return	Min. TCL	Min. ELTCTL
[MHz]	(Attenuation)	[dB]	[dB]	[dB]	[dB]	(ELFEXT) [dB]	(PSELFEXT) [dB]	Loss) [dB]	[dB]	[dB]
1	2.1 dB/100m	65.3	62.3	63.2	60.2	64	61	20	40	35

4	4 dB/100m	56.3	53.3	52.2	49.2	52	49	23	34	23
10	6.3 dB/100m	50.3	47.3	43.8	40.8	44	41	25	30	15
16	8 dB/100m	47.2	44.2	39	36	39.9	36.9	25	28	10.9
20	9 dB/100m	45.8	42.8	36.5	33.5	38	35	25	25.1	9
31.25	11.4 dB/100m	43.1	40.1	31.7	28.7	34.5	31.5	23.8	22	5.5
62.5	16.5 dB/100m	38.4	35.4	21.4	18.4	28.1	25.1	21.5	20	
100	21.3 dB/100m	35.3	32.3	13.3	10.3	24	21	20.1	19	
Table Notes: Limits below 4 MHz are for information only. Reference standard: IEC 61156-5										

Transfer Impedance

 Frequency
 Max. Transfer Impedance

 1 Mhz
 Max. 50 mOhm/m

 10 Mhz
 Max. 100 mOhm/m

 30 Mhz
 Max. 200 mOhm/m

 100 Mhz
 Max. 1000 mOhm/m

 100 Mhz
 Max. 1000 mOhm/m

 Transfer Impedance Class:
 Grade 2

 Screening Class:
 Type II

 Table Notes:
 Coupling Attenuation

Voltage

Voltage Rating

72 V DC

Mechanical Characteristics

Temperature

 Operating
 Installation

 -30°C to +60°C
 0°C To +50°C

Bend Radius

Standards and Compliance

Environmental Suitability:	Indoor
Flammability / Reaction to Fire:	IEC 60332-3-25
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = c
European Halogen Free Standards:	IEC 60754-1 - Halogen Amount = Zero
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.

History

Update and Revision:

Revision Number: 0.284 Revision Date: 02-03-2025

Part Numbers

Variants

ltem #	Color	Putup Type	Length	EAN
1633NHC.00305	Gray, RAL 7032	Reel	305 m	8719605003089
1633NHC.00500	Gray, RAL 7032	Reel	500 m	8719605176998

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