



Product Description

Category 5e Premise Horizontal Cable (100MHz), 4-Pair, 24 AWG solid bare copper conductors, F/UTP, Polyethylene insulation, Beldfoil® shield, AWG 26 solid tinned copper drainwire, LSZH jacket

Technical Specifications

Product Overview

Suitable Applications:	Horizontal and building backbo	ne cable; Support current and future Category 5e applications, such as: 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATN
construction Details		
onductor		
Element Size Strandi	ng Material Number	of Pairs
Individual Pair 24 Solid	BC - Bare Copper 4	
nsulation		
Element Material	Nom. Insulation Diameter	Color Code
Individual Pair PE - Polyethyl	ene 1.05 mm (0.0413 in)	White/Blue & Blue, White/Green & Green, White/Orange & Orange, White/Brown & Brown
Duter Shield		
Shield Type Materia		
	um+Poly) 100%	
Table Notes:	Aluminum facing outside in con	tact with drain wire
Duter Jacket		
Duter Jacket Material	Nom. Di	ameter

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
95 Ohm/km (29 Ohm/1000ft)	56 pF/m (17 pF/ft)	160 pF/100m	100 Ohm

Delay

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Max. Delay Skew Nom. Velocity of Prop.
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40 ns/100m 69%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Min. ELTCTL [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	52.32	49.3	52	49	23	34	23
10	6.3 dB/100m	50.3	47.3	44	41	44	41	25	30	15
16	8 dB/100m	47.2	44.2	39.2	36.2	39.9	36.9	25	28	10.9
20	9 dB/100m	45.8	42.8	36.8	33.8	38	35	25	27	9
31.25	11.4 dB/100m	42.9	39.9	31.5	28.5	34.1	31.5	23.6	25.1	5.5
62.5	16.5 dB/100m	38.4	35.4	21.9	18.9	28.1	25.1	21.5	22	

100	21.3 dB/100m	35.3	32.3	14	11	24	21	20.1	20	
Table Notes: Limits bel		mits below 4 MHz are	e for information of	only. Reference	standard: IEC 61	156-5				
Transfer Impedance										
Frequency	Max. Transfer Imped	dance								
1 Mhz	Max. 50 mOhm/m									
10 Mhz Max. 100 mOhm/m										
30 Mhz Max. 200 mOhm/m										
100 Mhz	Max. 1000 mOhm/m									

Voltage

Voltage Rating

72 V DC

Transfer Impedance Class:

Mechanical Characteristics

Grade 2

Temperature

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

Bend Radius

Installation Min.	
48 mm (1.9 in)	
Max. Pull Tension:	72 N (16 lbf)
Bulk Cable Weight:	39 kg/km (26 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Dca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Dca-s2,d2,a1; CPR UKCA Class: Dca-s2,d2,a1
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3
Data Category:	Category 5e
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = c
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
UK Regulation Compliance:	UKCA Mark

Product Notes

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

History

Update and Revision:

Revision Number: 0.297 Revision Date: 04-12-2022

Part Numbers

Variants

ltem #	Color	Putup Type	Length	EAN
1633ENH.07305	Black	Reel	305 m	8719605169075
1633ENH.01B100	Blue	Flat Box	100 m	8719605002884
1633ENH.01305	Blue	Reel	305 m	8719605002860
1633ENH.01500	Blue	Reel	500 m	8719605002877
1633ENH.00B100	Gray, RAL 7032	Flat Box	100 m	8719605002853
1633ENH.00305	Gray, RAL 7032	Reel	305 m	8719605002839
1633ENH.00500	Gray, RAL 7032	Reel	500 m	8719605002846
1633ENH.001000	Gray, RAL 7032	Reel	1,000 m	8719605002815
1633ENH.002050	Gray, RAL 7032	Reel	2,050 m	8719605002822
1633ENH.03305	Green	Reel	305 m	8719605002907
1633ENH.02305	Orange	Reel	305 m	8719605002891
1633ENH.04305	Red	Reel	305 m	8719605002914
1633ENH.041000	Red	Reel	1,000 m	8719605169082

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