

Product: 1885ELW

Category 7 Enhanced Cable, 4 Pair, S/FTP, LSZH Indoor CPR Cca

Product Description

Category 7 Enhanced Premise Horizontal Cable (1000MHz), 4-Pair, 23 AWG solid bare copper conductors, S/FTP, Foam Polyethylene insulation, each pair with Beldfoil® shield, overall tinned copper braid shield (30% coverage), LSZH jacket

Technical Specifications

Product Overview

Suitable Applications:	Horizontal and building backbone cable; Support current and future Category 6a and 7 applications, such as: 10GBase-T (10 Gigabit Ethernet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM

Construction Details

Conductor

Element	Size	Stranding	Material	No. of Pairs	No. of Elements
Individual Shielded Pair	23 AWG	Solid	BC - Bare Copper	4	8

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Individual Shielded Pair	PE - Polyethylene (Foam)	1.4 mm (0.055 in)	White & Blue, White & Orange, White & Green, White & Brown

Cable Core

Description
4 shielded pairs twisted together

Inner Shield

Element	Shield Type	Material	Coverage
Individual Shielded Pair	Tape	Bi-Laminate (Alum+Poly)	100%

Table Notes:	Aluminum facing outside

Outer Shield

Shield Type	Material	Coverage
Braid	Tinned Copper (TC)	30%

Outer Jacket

Material	Nom. Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7.6 mm (0.30 in)	Yes

Overall Cable Diameter (Nominal):	7.6 mm (0.30 in)

Electrical Characteristics

Electricals

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

Delay

Max. Delay Skew	Nom. Velocity of Prop.
25 ns/100m	78%

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 dB/100m	78	75	76	73	78	75	20	40	35
4	3.7 dB/100m	78	75	74.3	71.3	78	75	23	34	23
10	5.9 dB/100m	78	75	72.1	69.1	75.3	72.3	25	30	15
16	7.4 dB/100m	78	75	70.6	67.6	71.2	68.2	25	28	10.9
31.2	10.4 dB/100m	78	75	67.6	64.6	65.4	62.4	23.6	25.1	5.1
62.5	14.9 dB/100m	75.5	72.5	60.6	57.6	59.4	56.4	21.5	22	
100	19 dB/100m	72.4	69.4	53.4	50.4	55.3	52.3	20.1	20	
125	21.4 dB/100m	70.9	67.9	49.6	46.6	53.4	50.4	19.4	19	
200	27.5 dB/100m	67.9	64.9	40.4	37.4	49.3	46.3	18	17	
250	31 dB/100m	66.4	63.4	35.5	32.5	47.3	44.3	17.3	16	
300	34.2 dB/100m	65.2	62.2	31.1	28.1	45.8	42.8	17.3		
600	50.1 dB/100m	60.7	57.7	10.6	7.6	39.7	36.7	17.3		
1000	66.9 dB/100m	57.4	54.4			35.3	32.3	15.1		

Table Notes:	Limits below 4MHz are for information only; Values at 1000 MHz are for information only

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

Transfer Impedance Class:	Grade 2
Screening Class:	Type Ib
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

Stationary Min.	Installation Min.
30 mm (1.2 in)	60 mm

Max. Pull Tension:	85 N (19 lbf)
Bulk Cable Weight:	61 kg/km

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Cca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Cca-s1a,d1,a1
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Data Category:	Category 7
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61034-2 - Smoke Density Min Transmittance = 80%
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = d
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
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: 0.65 Revision Date: 04-29-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
1885ELW.00500	Blue	Reel	500 m	8719605180667
1885ELW.011000	Orange	Reel	1,000 m	8719605207326

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