Belden

Product: 1885ELW

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

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, verified by GHMT-PVP

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
Individual Shielded Pair	23 AWG	Solid	BC - Bare Copper	4

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%

Inner Shield 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 (29 Ohm/1000ft)	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) [dB/100m]	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	78	75	76	73	78	75	20	40	35
4	3.7	78	75	74.3	71.3	78	75	23	34	23
10	5.9	78	75	72.1	69.1	75.3	72.3	25	30	15
16	7.4	78	75	70.6	67.6	71.2	68.2	25	28	10.9
31.2	10.4	78	75	67.6	64.6	65.4	62.4	23.6	25.1	5.1
62.5	14.9	75.5	72.5	60.6	57.6	59.4	56.4	21.5	22	
100	19	72.4	69.4	53.4	50.4	55.3	52.3	20.1	20	
125	21.4	70.9	67.9	49.6	46.6	53.4	50.4	19.4	19	
200	27.5	67.9	64.9	40.4	37.4	49.3	46.3	18	17	
250	31	66.4	63.4	35.5	32.5	47.3	44.3	17.3	16	
300	34.2	65.2	62.2	31.1	28.1	45.8	42.8	17.3		
600	50.1	60.7	57.7	10.6	7.6	39.7	36.7	17.3		
1000	66.9	57.4	54.4			35.3	32.3	15.1		

High Frequency 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
Screening 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 (2.4 in)

Max. Pull Tension:	85 N (19 lbf)
Bulk Cable Weight:	61 kg/km (41 lbs/1000ft)

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
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, IEC 61034-2 - Smoke Density Min. Transmittance = 80%
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: 0.81 Revision Date: 02-20-2026

Part Numbers

Variants

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