



Product: [1886ELV](#)

Category 7A Enhanced Cable, 4 Pair, S/FTP, LSZH Indoor CPR B2ca

Product Description

Category 7A Enhanced Premise Horizontal Cable (1200MHz), 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, 7 and 7a 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)	1.42 mm (0.0559 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)	7.7 mm (0.30 in)	Yes

Overall Cable Diameter (Nominal):	7.7 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	76%

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	78	75	75.9	72.9	78	75	20	40	35
4	3.7 dB/100m	78	75	74.3	71.3	78	75	23	34	23
10	5.8 dB/100m	78	75	72.2	69.2	75.3	72.3	25	30	15
16	7.3 dB/100m	78	75	70.7	67.7	71.2	68.2	25	28	10.9
31.2	10.3 dB/100m	78	75	67.7	64.7	65.4	62.4	23.6	25.2	5.1
62.5	14.6 dB/100m	78	75	63.4	60.4	59.4	56.4	21.5	22	
100	18.5 dB/100m	75.4	72.4	56.9	53.9	55.3	52.3	20.1	20	
155	23.2 dB/100m	72.5	69.5	49.3	46.3	51.5	48.5	18.8	18.1	
250	29.7 dB/100m	69.4	66.4	39.7	36.7	47.3	44.3	17.3	16	
500	42.8 dB/100m	64.9	61.9	22.2	19.2	41.3	38.3	17.3	16	
600	47.1 dB/100m	63.7	60.7	16.6	13.6	39.7	36.7	17.3		
1000	61.9 dB/100m	60.4	57.4	10.6	-4.5	35.3	32.3	15.1		
1200	68.4 dB/100m	59.2	56.2	-9.5	-12.1	33.7	30.7	14.3		

Table Notes:	Limits below 4MHz and above 1000 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

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.
29 mm (1.1 in)	58 mm

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

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass B2ca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: B2ca-s1a,d1,a1
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Data Category:	Category 7A
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: 0.184 Revision Date: 06-20-2024
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
1886ELV.00500	Gray, RAL 7032	Reel	500 m	8719605124029

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.