



Product: [1893ELY](#) 

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

Product Description

Category 7A Enhanced Premise Horizontal Cable (1600MHz), 4-Pair, 22 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: 10GBase-T (10 Gigabit Ethernet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/patents .

Construction Details

Conductor

Element	Size	Stranding	Material	No. of Pairs
Individual Shielded Pair	22 AWG	Solid	BC - Bare Copper	4

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Individual Shielded Pair	PE - Polyethylene (Foam)	1.6 mm (0.063 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): 8.0 mm (0.31 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.
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25 ns/100m	76%
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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. PSANEXT [dB]	Min. PSAACRF [dB]	Min. TCL [dB]	Min. ELTCTL [dB]
1	2.1	78	75	75.9	72.9	78	75	20	67	67	40	23
4	3.7	78	75	74.3	71.3	78	75	23	67	67	34	15
10	5.8	78	75	72.2	69.2	75.3	72.3	25	67	67	30	10.9
16	7.3	78	75	70.7	67.7	71.2	68.2	25	67	67	28	5.1
31.2	10.3	78	75	67.7	64.7	65.4	62.4	23.6	67	63.3	25.2	
62.5	14.6	78	75	63.4	60.4	59.4	56.4	21.5	67	57.3	22	
100	18.5	75.4	72.4	56.9	53.9	55.3	52.3	20.1	67	53.2	20	
250	29.7	69.4	66.4	39.7	36.7	47.3	44.3	17.3	67	45.2	16	
500	42.8	64.9	61.9	22.2	19.2	41.3	38.3	17.3	67	39.2		
600	47.1	63.7	60.7	16.6	13.6	39.7	36.7	17.3	65.8	37.6		
1000	61.9	60.4	57.4			35.3	32.3	15.1	62.5	33.2		
1200	68.4	59.2	56.2					14.3				
1600	80	57.3	54.3					13.0				

High Frequency Table Notes:	Limits below 4 MHz and above 1000 MHz are for information only. Reference standard: IEC 61156-5
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.
33 mm (1.3 in)	65 mm (2.6 in)

Max. Pull Tension:	105 N (23.6 lbf)
Bulk Cable Weight:	63 kg/km (42 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Dca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Dca-s2,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
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 = 60%
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.
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History

Update and Revision:	Revision Number: 0.25 Revision Date: 03-24-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
1893ELY.00500	Blue	Reel	500 m	8719605230737

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