



Product: 2201ELV

Category 6A Cable, 4 Pair, F/FTP, LSZH Indoor CPR B2ca

Product Description

Category 6A Premise Horizontal Cable (500MHz), 4-Pair, 23 AWG Solid Bare Copper conductors, F/FTP, Foam Polyethylene insulation, each pair with Beldfoil® shield, AWG 26 solid tinned copper drainwire, overall Beldfoil® shield, LSZH jacket, CPR Euroclass B2ca

Technical Specifications

Product Overview

Suitable Applications:	Horizontal and building backbone cable; Support current and future Category 6A and 6 applications, such as: 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	No. of Elements	
Individual Shielded Pa	ir 23 AWG	Solid	BC	- Bare Copper	4	8	
Insulation							
Element		Material		Nom. Insulat	ion Diameter		Color Code
Individual Shielded Pa	ir PE - Poly	yethylene (F	oam)	1.32 mm (0.0	520 in)	White & Blue, Whi	te & Orange, White & Green, White & Brown
Cable Core							
Description							
4 pairs twisted togethe	r						
Inner Shield							
Element	Shield T	ype	Ma	terial	Coverage		
Individual Shielded Pa			ninate	(Alum+Poly)	100%		
Table Notes:	A	Numinum fac	ing o	utside			
Outer Shield							
Shield Type	Material	Cove	erage	Drainwire 1	Гуре		
Tape Bi-Lam	nate (Alum+	-Poly) 100%	6	26 AWG (Sol	id) TC		
Table Notes: Aluminum facing inside. Drainwire between inner and outer for					r and outer foil		
Outer Jacket							
	Material			Nom. Diam	eter Ripcord		
LSZH - Low Smoke Ze	ero Halogen	(Flame Reta	irdant) 7.3 mm (0.2	9 in) Yes		
Overall Cable Diamete (Nominal):	er 7	'.3 mm (0.29	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

Max. Delay Skew	Nom. Velocity of Prop.
45 ns/100m	77%

High Frequency

Frequency [MHz]	Max. Insertion Los (Attenuation)	s 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 dB/100m	75.3	72.3	73.2	70.2	68	65	20	67	67	40	35
4	3.8 dB/100m	66.3	63.3	62.5	59.5	56	53	23	67	66.2	34	23
10	5.9 dB/100m	60.3	57.3	54.4	51.4	48	45	25	67	58.2	30	15
16	7.5 dB/100m	57.2	54.2	49.8	46.8	43.9	40.9	25	67	54.1	28	10.9
31.2	10.5 dB/100m	52.9	49.9	42.4	39.4	38.1	35.1	23.6	67	48.3	25.1	5.1
62.5	15 dB/100m	48.4	45.4	33.4	30.4	32.1	29.1	21.5	65.6	42.3	22	
100	19.1 dB/100m	45.3	42.3	26.2	23.2	28	25	20.1	62.5	38.2	20	
125	21.5 dB/100m	43.8	40.8	22.3	19.3	26.1	23.1	19.4	61	36.3	19	
200	27.6 dB/100m	40.8	37.8	13.2	10.2	22	19	18	58	32.2	17	
250	31.1 dB/100m	39.3	36.3	8.3	5.3	20	17	17.3	56.5	30.2	16	
300	34.3 dB/100m	38.1	35.1	3.9	0.9	18.5	15.5	17.3	55.3	28.7		
500	45.3 dB/100m	34.8	31.8	-10.4	-13.4	14	11	17.3	52	24.2		
Table Notes:	Li	Limits below 4 MHz are for information only. Reference standard: IEC 61156-5										

Transfer Impedance

Frequency	Max. Transfer Im	bedance
1 Mhz	Max. 50 mOhm/m	
10 Mhz	Max. 100 mOhm/n	ı
30 Mhz	Max. 200 mOhm/n	ı
100 Mhz	Max. 1000 mOhm/	'n
Transfer Im	pedance Class:	Grade 2
Screening C	Class:	Type lb
Table Notes	:	Coupling

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
31 mm (1.2 in)	62 mm
Max. Pull Tensio	n: 7
Bulk Cable Weig	ht: 5

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 6A
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

Product Notes

Notes:

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

Update and Revision:

Revision Number: 0.153 Revision Date: 03-08-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN		
2201ELV.00500	Blue	Reel	500 m	8719605159199		

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