



Product Description

Category 6A Enhanced Premise Horizontal Cable (625MHz), 4-Pair, 23 AWG Solid Bare Copper conductors, U/FTP, Foam Polyethylene insulation, each pair with Beldfoil® shield, AWG 26 solid tinned copper drainwire, LSZH jacket, CPR Euroclass Eca

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 Pair	23 AWG	Solid	BC - Bare Copper	4	8	
Insulation						
Element	1	Material	Nom. Insulat	on Diameter		Color Code
Individual Shielded Pair	PE - Poly	ethylene (Fo	am) 1.32 mm (0.0	520 in)	White / Blue, Whit	e / Orange, White / Green, White / Brown
Cable Core						
			Description			
2 twisted insulated cond	uctors with	overall foil, 4	pairs all twisted to	gether with AV	VG 26 tinned coppe	r drain wire
Inner Shield						
Element	Shield T	уре	Material	Coverage		
Individual Shielded Pair	Tape	Bi-Lami	nate (Alum+Poly)	100%		
Table Notes:	A	luminum facii	ng outside			
Outer Shield						
Drainwire Type						
26 AWG (Solid) TC						
Table Notes:	A	luminium faci	ng outside			
Outer Jacket						
	aterial		Nom. Diame	ter Ripcord		
LSZH - Low Smoke Zero Halogen (Flame Retardant) 6.9 mm (0.27 in) Yes						
Overall Cable Diameter (Nominal): 6.9 mm (0.27 in)						
Electrical Characteristics						
Electricals						
Max. Conductor DC	R Max	Mutual Car	acitance Max. Ca	pacitance Ur	balance Nom. Ch	aracteristic Impedance

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

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

High Frequency

2.1 dB/100m	75.3			[dB]	(ELFEXT) [dB]	(PSELFEXT) [dB]	(Return Loss) [dB]	PSANEXT [dB]	PSAACRF [dB]	TCL [dB]	ELTCTL [dB]
	10.0	72.3	73.2	70.2	68	65	20	67	67	40	35
3.8 dB/100m	66.3	63.3	62.5	59.5	56	53	23	67	66.2	34	23
5.9 dB/100m	60.3	57.3	54.4	51.4	48	45	25	67	58.2	30	15
7.5 dB/100m	57.2	54.2	49.8	46.8	43.9	40.9	25	67	54.1	28	10.9
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
15 dB/100m	48.4	45.4	33.4	30.4	32.1	29.1	21.5	65.6	42.3	22	
19.1 dB/100m	45.3	42.3	26.2	23.2	28	25	20.1	62.5	38.2	20	
21.5 dB/100m	43.8	40.8	22.3	19.3	26.1	23.1	19.4	61	36.3	19	
27.6 dB/100m	40.8	37.8	13.2	10.2	22	19	18	58	32.2	17	
31.1 dB/100m	39.3	36.3	8.3	5.3	20	17	17.3	56.5	30.2	16	
34.3 dB/100m	38.1	35.1	3.9	0.9	18.5	15.5	17.3	55.3	28.7		
l5.3 dB/100m	34.8	31.8	-10.4	-13.4	14	11	17.3	52	24.2		
51.2 dB/100m	33.4	30.4	-17.8	-20.8	12.1	9.1	17.3	50.6	22.3		
7 1 1 2 3	5 dB/100m 0.5 dB/100m 9.1 dB/100m 1.5 dB/100m 1.5 dB/100m 1.1 dB/100m 4.3 dB/100m 5.3 dB/100m 1.2 dB/100m	5 dB/100m 57.2 0.5 dB/100m 52.9 5 dB/100m 48.4 9.1 dB/100m 45.3 1.5 dB/100m 43.8 7.6 dB/100m 40.8 1.1 dB/100m 39.3 4.3 dB/100m 38.1 5.3 dB/100m 34.8 1.2 dB/100m 33.4	5 dB/100m 57.2 54.2 0.5 dB/100m 52.9 49.9 5 dB/100m 48.4 45.4 9.1 dB/100m 45.3 42.3 1.5 dB/100m 43.8 40.8 7.6 dB/100m 40.8 37.8 1.1 dB/100m 39.3 36.3 4.3 dB/100m 38.1 35.1 5.3 dB/100m 34.8 31.8 1.2 dB/100m 33.4 30.4	5 dB/100m 57.2 54.2 49.8 0.5 dB/100m 52.9 49.9 42.4 5 dB/100m 48.4 45.4 33.4 9.1 dB/100m 45.3 42.3 26.2 1.5 dB/100m 43.8 40.8 22.3 7.6 dB/100m 40.8 37.8 13.2 1.1 dB/100m 39.3 36.3 8.3 4.3 dB/100m 38.1 35.1 3.9 5.3 dB/100m 34.8 31.8 -10.4 1.2 dB/100m 33.4 0.4 -17.8	5 dB/100m 57.2 54.2 49.8 46.8 0.5 dB/100m 52.9 49.9 42.4 39.4 5 dB/100m 48.4 45.4 33.4 30.4 9.1 dB/100m 45.3 42.3 26.2 23.2 1.5 dB/100m 43.8 40.8 22.3 19.3 7.6 dB/100m 40.8 37.8 13.2 10.2 1.1 dB/100m 39.3 36.3 8.3 5.3 4.3 dB/100m 38.1 35.1 3.9 0.9 5.3 dB/100m 34.8 31.8 -10.4 -13.4 1.2 dB/100m 33.4 30.4 -20.8 -20.8	5 dB/100m 57.2 54.2 49.8 46.8 43.9 0.5 dB/100m 52.9 49.9 42.4 39.4 38.1 5 dB/100m 48.4 45.4 33.4 30.4 32.1 9.1 dB/100m 45.3 42.3 26.2 23.2 28 1.5 dB/100m 43.8 40.8 22.3 19.3 26.1 1.5 dB/100m 40.8 37.8 13.2 10.2 22 1.1 dB/100m 39.3 36.3 8.3 5.3 20 1.1 dB/100m 38.1 35.1 3.9 0.9 18.5 5.3 dB/100m 34.8 31.8 -10.4 -13.4 14 1.2 dB/100m 33.4 30.4 -17.8 -20.8 12.1	5 dB/100m 57.2 54.2 49.8 46.8 43.9 40.9 0.5 dB/100m 52.9 49.9 42.4 39.4 38.1 35.1 5 dB/100m 48.4 45.4 33.4 30.4 32.1 29.1 9.1 dB/100m 45.3 42.3 26.2 23.2 28 25 1.5 dB/100m 43.8 40.8 22.3 19.3 26.1 23.1 1.5 dB/100m 40.8 37.8 13.2 10.2 22 19 1.1 dB/100m 39.3 36.3 8.3 5.3 20 17 4.3 dB/100m 38.1 35.1 3.9 0.9 18.5 15.5 5.3 dB/100m 34.8 31.8 -10.4 -13.4 14 11 1.2 dB/100m 34.4 30.4 -17.8 -20.8 12.1 9.1	5 dB/100m57.254.249.846.843.940.9250.5 dB/100m52.949.942.439.438.135.123.65 dB/100m48.445.433.430.432.129.121.59.1 dB/100m45.342.326.223.2282520.11.5 dB/100m43.840.822.319.326.123.119.47.6 dB/100m40.837.813.210.2221919181.1 dB/100m39.336.38.35.320.117.317.34.3 dB/100m38.135.13.90.918.515.517.3	5 dB/100m 57.2 54.2 49.8 46.8 43.9 40.9 25 67 0.5 dB/100m 52.9 49.9 42.4 39.4 38.1 35.1 23.6 67 5 dB/100m 48.4 45.4 33.4 30.4 32.1 29.1 21.5 65.6 9.1 dB/100m 45.3 42.3 26.2 23.2 28 25 0.1 62.5 9.1 dB/100m 45.3 40.8 22.3 19.3 26.1 23.1 19.4 61 1.5 dB/100m 43.8 40.8 22.3 19.3 26.1 23.1 19.4 61 1.5 dB/100m 43.8 40.8 22.3 10.2 22 19 18 56 1.1 dB/100m 39.3 36.3 8.3 5.3 20 17 17.3 55.3 5.3 dB/100m 34.8 31.8 10.4 13.4 14 11 17.3 52 1.2 dB/100m 34.8	5 dB/100m 57.2 54.2 49.8 46.8 43.9 40.9 25 67 54.1 0.5 dB/100m 52.9 49.9 42.4 39.4 38.1 35.1 23.6 67 48.3 5 dB/100m 48.4 45.4 33.4 30.4 32.1 29.1 21.5 65.6 42.3 9.1 dB/100m 45.3 42.3 26.2 23.2 28 25 20.1 62.5 38.2 1.5 dB/100m 43.8 40.8 23.2 28 25.1 20.1 62.5 38.2 1.5 dB/100m 43.8 40.8 23.3 19.3 26.1 23.1 19.4 61 36.3 1.5 dB/100m 40.8 37.8 13.2 10.2 22.0 19.4 18.4 56.5 30.2 1.1 dB/100m 39.3 66.3 5.3 20.9 17.6 17.3 55.3 26.7 5.3 dB/100m 34.8 31.8 -10.4 13.4	5 dB/100m 57.2 54.2 49.8 46.8 43.9 40.9 25 67 54.1 28 0.5 dB/100m 52.9 49.9 42.4 39.4 38.1 35.1 23.6 67 48.3 25.1 5 dB/100m 48.4 45.4 33.4 30.4 32.1 29.1 21.5 65.6 42.3 22 9.1 dB/100m 45.3 42.3 26.2 28.2 29.1 21.5 65.6 42.3 20 9.1 dB/100m 45.3 42.3 26.2 28.2 28.1 29.1 21.5 65.6 42.3 20 1.5 dB/100m 45.3 42.3 26.2 28.1 23.1 19.4 61.0 36.3 19 1.5 dB/100m 40.8 37.8 13.2 10.2 22.1 19.4 18.1 56.5 30.2 16 1.1 dB/100m 39.3 63.3 5.3 20.9 15.5 17.3 53.3 28.7 24.2

Transfer Impedance

Frequency	Max. Transfer Im	pedance
1 Mhz	Max. 50 mOhm/m	
10 Mhz	Max. 100 mOhm/r	n
30 Mhz	Max. 200 mOhm/r	n
100 Mhz	Max. 1000 mOhm	/m
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 M	lin.
33 mm (1.3 in) 66 mm (2.6 in	
Max. Pull Tension:	110 N (25 lbf)
Bulk Cable Weight:	44 kg/km (30 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
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 = 60%
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: 0.285 Revision Date: 07-31-2024						

Part Numbers

Variants										
ltem #	Color	Putup Type	Length	EAN						
10GXE03.06500	Blue	Reel	500 m	8719605000460						
10GXE03.061000	Blue	Reel	1,000 m	8719605000453						
10GXE03.08500	Gray	Reel	500 m	8719605000484						
10GXE03.07500	Purple	Reel	500 m	8719605000477						
10GXE03.09500	White	Reel	500 m	8719605180278						

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