Belden



Product: 10GXE00

10GX Category 6A Enhanced Cable, 4 Pair, F/UTP, LSZH Indoor CPR Eca

Product Description

Category 6A Enhanced Premise Horizontal Cable (625MHz), 4-Pair, 23 AWG Solid Bare Copper Conductors, F/UTP, Polyethylene Insulation, 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
Individual Pair	23 AWG	Solid	BC - Bare Copper	4

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Individual Pair	PE - Polyethylene	1.18 mm (0.0465 in)	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown

Cable Core

Description	Separator
4 pairs twisted together + cross web of polyolefin	Center Member (Patented X-Spline®)

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	26 AWG (Solid) TC

Outer Shield Table Notes:	Aluminum facing outside

Outer Jacket

Material	Nom. Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7.2 mm (0.28 in)	Yes

Overall Cable Diameter (Nominal):	7.2 mm (0.28 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.
45 ns/100m	67%

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	75.3	72.3	73.2	70.2	68	65	20	67	67	40	35
4	3.8	66.3	63.3	62.5	59.5	56	53	23	67	66.2	34	23
10	5.9	60.3	57.3	54.4	51.4	48	45	25	67	58.2	30	15
16	7.5	57.2	54.2	49.8	46.8	43.9	40.9	25	67	54.1	28	10.9
31.2	10.5	52.9	49.9	42.4	39.4	38.1	35.1	23.6	67	48.3	25.1	5.1
62.5	15	48.4	45.4	33.4	30.4	32.1	29.1	21.5	65.6	42.3	22	
100	19.1	45.3	42.3	26.2	23.2	28	25	20.1	62.5	38.2	20	
125	21.5	43.8	40.8	22.3	19.3	26.1	23.1	19.4	61	36.3	19	
200	27.6	40.8	37.8	13.2	10.2	22	19	18	58	32.2	17	
250	31.1	39.3	36.3	8.3	5.3	20	17	17.3	56.5	30.2	16	
300	34.3	38.1	35.1	3.9	0.9	18.5	15.5	17.3	55.3	28.7		
500	45.3	34.8	31.8	-10.4	-13.4	14	11	17.3	52	24.2		
625	51.2	33.4	30.4	-17.8	-20.8	12.1	9.1	17.3	50.6	22.3		

High Frequency Table Notes:	Limits below 4 MHz and at 625 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 II
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.
29 mm (1.1 in)	58 mm (2.3 in)

Max. Pull Tension:	110 N (25 lbf)
Bulk Cable Weight:	50 kg/km (34 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: 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
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = c
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.

History

Update and Revision:	Revision Number: 0.448 Revision Date: 08-17-2026

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
10GXE00.10500	Black	Reel	500 m	8719605000323
10GXE00.101000	Black	Reel	1,000 m	8719605198198
10GXE00.06100	Blue	Reel	100 m	8719605125132
10GXE00.06500	Blue	Reel	500 m	8719605000286
10GXE00.K6500	Blue	Reel	500 m	8719605160942
10GXE00.08100	Gray	Reel	100 m	8719605000309
10GXE00.08200	Gray	Reel	200 m	8719605205612
10GXE00.08305	Gray	Reel	305 m	8719605139993
10GXE00.08500	Gray	Reel	500 m	8719605000316
10GXE00.05500	Green	Reel	500 m	8719605197993
10GXE00.03500	Orange	Reel	500 m	8719605167613
10GXE00.07500	Purple	Reel	500 m	8719605000293
10GXE00.K7500	Purple	Reel	500 m	8719605000330
10GXE00.B7500	Purple	Reel	500 m	8719605229427
10GXE00.04500	Yellow	Reel	500 m	8719605000279

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