



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), 100Base-T (Gigabit Ethernet), 100Base-T, 10Base-T, 1

Construction Details

Conductor

Element	Size	Stranding	Material	Number of Pairs	Num	ber of	Element
Individual Pair	23 AWG	Solid	BC - Bare Copper	4	8		

Insulation

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

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
Таре	Bi-Laminate (Alum+Poly)	100%	26 AWG (Solid) TC

Table Notes:

Aluminum facing outside

Outer Jacket

LSZH - Low Smoke Zero Halogen (Flame Retardant) 7.2 mm (0.28 in) Yes	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	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)	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		
625	51.2 dB/100m	33.4	30.4	-17.8	-20.8	12.1	9.1	17.3	50.6	22.3		
Table Not	es:	Limits below 4	MHz and at 6	625 MHz are	for information	on only. Reference	ce standard: IEC 611	56-5	- 0			

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

Coupling Attenuation

Table Notes:

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: 80 N (18 lbf) 50 kg/km Bulk Cable Weight:

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, IEC 61034-2 - Smoke Density Min Transmittance = 60%
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
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: 0.310 Revision Date: 04-12-2022

Variants

Item #	Color	Putup Type	Length	EAN
10GXE00.10500	Black	Reel	500 m	8719605000323
10GXE00.101000	Black	Reel	1,000 m	
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
10GXE00.08305	Gray	Reel	305 m	8719605139993
10GXE00.08500	Gray	Reel	500 m	8719605000316
10GXE00.05500	Green	Reel	500 m	
10GXE00.03500	Orange	Reel	500 m	8719605167613
10GXE00.07500	Purple	Reel	500 m	8719605000293
10GXE00.04500	Yellow	Reel	500 m	8719605000279

© 2022 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.

& Tradinos FIE

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.

sentatic associated in the first state of sale.

all programs as listed in address states and sale of sale and sale of sale.

all programs as listed in address sale of sale and sale of sale and sale 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.