



Product: <u>10GXE02</u> ☑

10GX Category 6A Enhanced Cable, 4 Pair, S/FTP, LSZH Indoor CPR Eca

Product Description

Category 6A Enhanced Premise Horizontal Cable (625MHz), 4-Pair, 23 AWG Solid Bare Copper conductors, S/FTP, Foam Polyethylene insulation, each pair with Beldfoil® shield, tinned copper braid shield (30%), LSZH jacket, CPR Euroclass Eca

Technical Specifications

Product Overview

Suitable Applications:		and building ba T, 10 Base-T, Fl		t current and future	Category 6A and 6 applications, such as: 10GBase-T (10 Gigabit Eth	.ernet), 1000Base-1 (Gigabit Ethernet),	
Construction Deta	ils						
Conductor							
Element	Size Strand	ing Materi	al No. of Pairs	No. of Elements			
Individual Shielded Pair	23 AWG Solid	BC - Bare 0	Copper 4	8			
nsulation							
Element	Material	Nom.	Insulation Diameter		Color Code		
Individual Shielded Pair	PE - Polyethylene	(Foam) 1.32 m	nm (0.0520 in)	White & Blue, White	& Orange, White & Green, White & Brown		
Cable Core							
Description 4 pairs twisted together							
nner Shield							
	Shield Type	Material	Coverage				
Individual Shielded Pair		.aminate (Alum+	Poly) 100%				
Table Notes:	Aluminum	facing outside					
Duter Shield							
Shield Type Mate		ige					
Braid Tinned Co	pper (TC) 30%						
Outer Jacket							
Material Nom. Diameter Ripcord							
LSZH - Low Smoke Zero Halogen (Flame Retardant) 7.0 mm (0.28 in) Yes							
Overall Cable Diameter (Nominal): 7.0 mm (0.28 in)							
Electrical Characte	eristics						
Electricals							
Max. Conductor DCR	Max. Mutual Capa	citance Max. C	apacitance Unbalan	ce Nom. Characte	ristic Impedance		
05 Ohm/km	56 pE/m (17 pE/ft)	160 -5	(100m	100 Ohm			

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	77%			

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		

Transfer Impedance

Frequency	Max. Transfer Imp	oedance
1 Mhz	Max. 50 mOhm/m	
10 Mhz	Max. 100 mOhm/m	ı
30 Mhz	Max. 200 mOhm/m	ı
100 Mhz	Max. 1000 mOhm/	m
Transfer Imp	pedance Class:	Grade 2
Screening C	Class:	Type lb
Table Notes	5.	Coupling

Voltage

Voltage Rating

72 V DC

Mechanical Characteristics

Stationary Min. Installation Min. 29 mm (1.1 in) 58 mm Max. Pull Tension: 110 N (25 lbf) Bulk Cable Weight: 52 kg/km

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 = 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.

Update and Revision:

Part Numbers

Variants

ltem #	Color	Putup Type	Length	EAN
10GXE02.10500	Black	Reel	500 m	8719605222268
10GXE02 006305M	Blue	Reel	305 m	
10GXE02.06500	Blue	Reel	500 m	8719605000385
10GXE02 006500M	Blue	Reel	500 m	
10GXE02.08100	Gray	Reel	100 m	8719605000408
10GXE02.K8100	Gray	Reel	100 m	8719605147868
10GXE02 008305M	Gray	Reel	305 m	
10GXE02.08500	Gray	Reel	500 m	8719605000415
10GXE02 008500M	Gray	Reel	500 m	
10GXE02.05500	Green	Reel	500 m	8719605222077
10GXE02.03500	Orange	Reel	500 m	8719605130068
10GXE02.07305	Purple	Reel	305 m	
10GXE02 007305M	Purple	Reel	305 m	
10GXE02.07500	Purple	Reel	500 m	8719605000392
10GXE02 007500M	Purple	Reel	500 m	
10GXE02.02500	Red	Reel	500 m	8719605195012
10GXE02 009305M	White	Reel	305 m	
10GXE02.09500	White	Reel	500 m	8719605222251
10GXE02 009500M	White	Reel	500 m	
10GXE02 004305M	Yellow	Reel	305 m	
10GXE02.04500	Yellow	Reel	500 m	8719605195029
10GXE02 004500M	Yellow	Reel	500 m	

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