



# Product: <u>10GXE00</u> ☑

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 Applica		orizontal and bu )0 Base-T, 10 B			upport curren	t and future Catego	ry 6A and 6 application	s, such as: 10GBase	e-T (10 Gigabit I	Ethernet), 1000Ba	ase-T (Giga	bit Ethernet),
Constructio	n Details											
Conductor												
Element	Size Strandin	ng Materia	al Num	ber of Pairs	Number o	f Element						
Individual Pair	23 AWG Solid	BC - Bare C	copper 4		8							
nsulation												
Element	Material	Nom. Insulation	on Diameter			Colo	r Code					
Individual Pair	PE - Polyethylene	1.18 mm (0.04	65 in)	White/Blue	& Blue, Whit	e/Orange & Orange	, White/Green & Green	, White/Brown & Bro	own			
Cable Core												
	Description			Separator								
4 pairs twisted to	ogether + cross web	o of polyolefin	Center Memb	er (Patente	d X-Spline®)							
Outer Shield												
Shield Type	Material	Coverag	e Drainwii	е Туре								
Tape B	i-Laminate (Alum+F	Poly) 100%	26 AWG (	Solid) TC								
Table Notes:	AI	uminum facing	outside									
Outer Jacket												
	Material		Nom. Dia	ameter Rip	ocord							
LSZH - Low Sm	oke Zero Halogen (l	Flame Retardar	nt) 7.2 mm (0	0.28 in) Ye	s							
Overall Cable D (Nominal):	iameter 7.	2 mm (0.28 in)										
Electrical Cl	naracteristics											
Electricals												
Max. Conducto	r DCR Max. Mutu	al Capacitance	Max. Capa	citance Un	balance No	m. Characteristic li	mpedance					
95 Ohm/km	56 pF/m (1	7 pF/ft)	160 pF/100	)m	100	) Ohm						
Delay												
Max. Delay Ske	w Nom. Velocity	of Prop.										
45 ns/100m	67%											
ligh Frequency												
Frequency [MHz]	Max. Insertion Los (Attenuation)	NEXI	Min. PSNEXT	Min. ACR	Min. PSACR	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss)	Min. PSANEXT	Min. PSAACRF	Min. TCL	Min. ELTCTL
	(Attenuation)	[dB]	[dB]	[dB]	[dB]			(dB)	[dB]	[dB]	[dB]	[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 In	pedance
1 Mhz	Max.	50 mOhm/n	1
10 Mhz	Max.	100 mOhm/	m
30 Mhz	Max.	200 mOhm/	m
100 Mhz	Max.	1000 mOhn	ı/m
Transfer Im	pedanc	ce Class:	Grade 2
Screening C	Screening Class:		Type II
Table Notes	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 M29 mm (1.1 in)58 mm	
Tension:	
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
UK Regulation Compliance: Product Notes	UKCA Mark

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

Update and Revision:

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Revision Number: 0.310 Revision Date: 04-12-2022

#### **Part Numbers**

#### Variants

ltem #	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

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