



10GXE01

Part Number: 10GXE01

Enhanced Category 6A Nonbonded-Pair ScTP Cable

Product Description

CAT6A (625MHz), 4-Pair, F/FTP shielded, Premise Horizontal Cable, 23 AWG Solid Bare Copper conductors, Foam Polyolefin insulation, each pair with Beldfoil® shield, AWG 26 solid tinned copper drainwire, overall Beldfoil® shield, LSZH jacket

Product Specifications

Application

Application 1:	Horizontal and building backbone cable
Application 2:	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

Cabling1

Cabling1, Description:	4 pairs twisted together
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Technical Specifications

Bend Radius

Min Bend Radius During Installation:	57 mm
Min Bend Radius During Operation:	29 mm

CCB-Sub-Material

Min Elongation at Breakof Conductors:	10 %

Min Elongation at Breakof Insulation:	100 %
Min Elongation at Breakof Jacket:	100 MPa
Min Tensile Strength of Jacket:	g lbs

EMEA Standard

CENELEC Compliance:	EN 50173-1 (2011)
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Environmental Characteristics

Operating Temp Range:	-30 to +60 °C
Installation Temp Range:	o to +50 °C

General Electrical Parameters

General Electrical Parameters Header:	Reference standard: ISO/IEC 61156-5 ed. 2.0 (2009)
Min Insulation Resistance:	5000 mOhm/1000ft
Dielectric Strength Cond-Cond (2 sec):	2.5 kV DC
Dielectric Strength Cond-Screen (2 sec):	2.5 kJ/ft

Global Standard

ISO/IEC Compliance:	ISO/IEC 11801 2nd edition (2002) and ISO/IEC 11801 Amendment 2 (2010)
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History

Revision Date:	40961
Revision Number:	2

North American Standard

Safety

ISO/IEC Flammability:	IEC 60332-1
Amt of Halogen Acid Gas; MaxConductivity:	10 μS/mm
Amt of Halogen Acid Gas; Min pH:	4.3
Smoke Density; Min Transmittance:	60 %
Amt of Halogen IEC 60754-1 /EN50267-1:	Zero

Use

Burning Load:	515 kJ/m
Max Recommended Pulling Tension:	79 lbs

Impedance:

Nominal Characteristic Impedance

100 mOhm/ft

Conductor DCR:

Max. Conductor DCR	Max DCR Unbalanced Between Pairs	Max. DCR Unbalanced Within Pair
95 Ohm/100m	4%	2 Ohm

Color Chart 1:

Number	Color
Pair 1	White & Blue
Pair 2	White & Orange
Pair 3	White & Green
Pair 4	White & Brown

Delay:

Max. Delay Skew	Nominal Velocity of Propagation (VP)		
45 ns/100m	77 ns/100m		

Voltage:

Voltage Rating

72 dB

Current:

Max. Recommended Current

1.5 A

High Freq:

	Element Freque	n dy lax.	Min.	Min.	Min.	Min.	Min.	Min.	Min. RL	Min.	Min.	Min.	Min.
	[MHz]	Insertic	nNEXT	PSNEXT	ACR	PSACR	ACRF	PSACRF	(Return	PSANI	EXTPSAAC	RFTCL	ELTCTL
		Loss					(ELFEX	T)(PSELFE	EXIIO)ss)				
ı		(Attenu	ıation)										

65 dB 20 dB 67 dB 67 dB 40 dB 35 dB
53 dB 23 dB 67 dB 66.2 dB 34 dB 23 dB
45 dB 25 dB 67 dB 58.2 30 dB 15 dB
40.9 dB 67 dB 54.1 28 dB 10.9 dB
35.1 23.6 dB 67 dB 48.3 25.1 dB 5.1 dB
29.1 21.5 65.6 42.3 dB dB 22 dB
25 dB
23.1 19.4 dB 36.3 dB 19 dB
19 dB
17 dB
15.5 17.3 55.3 28.7 dB dB dB dB
11 dB
9.1 dB

^{):} Limits below 4MHz and at 625MHz are for information only.

Innershield:

Element	Туре	Material	Coverage
Individual shielded pair	Таре	Aluminium / Polyester	100 %
Aluminum facing outside			

Transfer Impedance:

Frequency [MHz]	Description	Transfer Impedance
1 Mhz	Grade 2	Max.50 mOhm/m
10 Mhz		Max. 100 mOhm/m

30 Mhz	Max. 200 mOhm/m	
100 Mhz	Max. 1000 mOhm/m	

Capacitance:

Max. Capacitance Unbalanced	Max. Mutual Capacitance	
1,600 pF/m	56 pF/m	

Insulation:

Element	Туре	Material	Nominal Diameter
Individual pair	Dielectric	Polyethylene	1.32 mm

Outerjacket 1:

Material	Nominal Diameter	Diameter +/- Tolerance	Ripcord
FRNC / LSNH	7.1 mm	0.3 mm	Yes

Conductor:

Element	AWG	Stranding	Material	No. of Pairs
Individual pair	23	Solid	Bare copper	4

Outershield 1:

Туре	Material	Coverage	Drainwire Material	Drainwire AWG	Drainwire Position	
Таре	Aluminum / Polyester	100 %	Solid tinned copper	26	Between inner and outer foil	
Aluminum facing inside in						

Coupling Attenuation:

Coupling Attenuation

Type II V

Product Variants

Part Number	Color	Put-Up Type	Length
10GXE01.06500	BLUE, RAL 5015	Reel	500 m
10GXE01.07500	PURPLE, RAL 4005	Reel	500 m
10GXE01.08500	GRAY	Reel	500 m

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