



1885ENC

Part Number: 1885ENC

Category 7 Nonbonded-Pair ScTP Cable

Product Description

CAT7 (600MHz), 4-Pair, S/FTP shielded, Premise Horizontal Cable, 23 AWG solid bare copper conductors, Foam Polyolefin insulation, each pair with Beldfoil® shield, overall tinned copper braid shield (30% coverage), LSZH jacket

Product Specifications

Application

Application 1:	Horizontal and building backbone cable
Application 2:	Support current and future Category 6a and 7 applications, such as: 10GBase-T (10 Gigabit Ethernet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM

Cabling¹

Cabling ¹ , Description:	4 shielded pairs twisted together
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Technical Specifications

Bend Radius

Min Bend Radius During Installation:	64 mm
Min Bend Radius During Operation:	32 mm

CCB-Sub-Material

Min Elongation at Breakof Conductors:	10 %
Min Elongation at Breakof Insulation:	100 %

Min Elongation at Break of Jacket:	100 MPa
Min Tensile Strength of Jacket:	9 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:	0 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:	41428
Revision Number:	2b

Safety

ISO/IEC Flammability:	IEC 60332-1
Amt of Halogen Acid Gas; Max Conductivity:	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:	750 kJ/m
Max Recommended Pulling Tension:	85 lbs

Impedance:**Nominal Characteristic Impedance**

100 mOhm/ft

Conductor DCR:**Max. Conductor DCR**

95 Ohm/100m

Max DCR Unbalanced Between Pairs

4 %

Max. DCR Unbalanced Within Pair

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**

25 ns/100m

Nominal Velocity of Propagation (VP)

78 ns/100m

Voltage:**Voltage Rating**

72 dB

Current:**Max. Recommended Current**

1.5 A

High Freq:

Element	Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT	Min. PSNEXT	Min. ACR	Min. PSACR	Min. ACRF (ELFEXT)	Min. PSACRF (PSELFEXT)	Min. RL (Return Loss)	Min. TCL	Min. ELCTL
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	1 MHz	2 db/100m	78 dB	75 dB	76 dB	73 dB	78 dB	75 dB	20 dB	40 dB	35 dB
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	4 MHz	3.7 db/100m	78 dB	75 dB	74.3 dB	71.3 dB	78 dB	75 dB	23 dB	34 dB	23 dB
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	10 MHz	5.9 db/100m	78 dB	75 dB	72.1 dB	69.1 dB	75.3 dB	72.3 dB	25 dB	30 dB	15 dB
	16 MHz	7.4 db/100m	78 dB	75 dB	70.6 dB	67.6 dB	71.2 dB	68.2 dB	25 dB	28 dB	10.9 dB
	31.2 MHz	10.4 db/100m	78 dB	75 dB	67.6 dB	64.6 dB	65.4 dB	62.4 dB	23.6 dB	25.1 dB	5.1 dB
	62.5 MHz	14.9 db/100m	75.5 dB	72.5 dB	60.6 dB	57.6 dB	59.4 dB	56.4 dB	21.5 dB	22 dB	
	100 MHz	19 db/100m	72.4 dB	69.4 dB	53.4 dB	50.4 dB	55.3 dB	52.3 dB	20.1 dB	20 dB	
	125 MHz	21.4 db/100m	70.9 dB	67.9 dB	49.6 dB	46.6 dB	53.4 dB	50.4 dB	19.4 dB	19 dB	
	200 MHz	27.5 db/100m	67.9 dB	64.9 dB	40.4 dB	37.4 dB	49.3 dB	46.3 dB	18 dB	17 dB	
	250 MHz	31 db/100m	66.4 dB	63.4 dB	35.5 dB	32.5 dB	47.3 dB	44.3 dB	17.3 dB	16 dB	
	300 MHz	34.2 db/100m	65.2 dB	62.2 dB	31.1 dB	28.1 dB	45.8 dB	42.8 dB	17.3 dB		
	600 MHz	50.1 db/100m	60.7 dB	57.7 dB	10.6 dB	7.6 dB	39.7 dB	36.7 dB	17.3 dB		
	1000 MHz	66.9 db/100m	57.4 dB	54.4 dB			35.3 dB	32.3 dB	15.1 dB		

): Limits below 4MHz are for information only;): Values at 1000 MHz are for information only

Innershield:

Element	Type	Material	Coverage
Individual shielded pair	Tape	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

High Frequency (Nominal/Typical):

Frequency (MHz)	Nom. ACR	Nom. ACRF	Nom. Insertion Loss	Nom. NEXT	Nom. PSACR	Nom. PSACRF (PSELFEXT)	Nom. PSNEXT
1 MHz	101 dB	95 db/100ft	1.8 db/100m	103 dB	98 dB	92 dB	100 dB
4 MHz	97 dB	94 db/100ft	3.4 db/100m	100 dB	94 dB	91 dB	97 dB
10 MHz	92 dB	93 db/100ft	5.5 db/100m	98 dB	89 dB	92 dB	95 dB
16 MHz	90 dB	91 db/100ft	6.9 db/100m	97 dB	87 dB	88 dB	94 dB
31.2 MHz	85 dB	90 db/100ft	9.7 db/100m	95 dB	82 dB	87 dB	92 dB
62.5	80 dB	87 db/100ft	13.9 db/100m	94 dB	77 dB	84 dB	91 dB
100	75 dB	85 db/100ft	17.7 db/100m	93 dB	72 dB	82 dB	90 dB
125	72 dB	83 db/100ft	19.9 db/100m	92 dB	69 dB	80 dB	89 dB
200	65 dB	77 db/100ft	25.6 db/100m	91 dB	64 dB	74 dB	88 dB
250	61 dB	74 db/100ft	28.8 db/100m	90 dB	58 dB	71 dB	87 dB
300	58 dB	74 db/100ft	31.8 db/100m	90 dB	55 dB	71 dB	87 dB
600	42 dB	60 db/100ft	46.6 db/100m	89 dB	39 dB	57 dB	86 dB
1000	26 dB	50 pF/ft	62.2 db/100m	88 dB	23 dB	47 dB	85 dB

Insulation:

Element	Type	Material	Nominal Diameter
Individual shielded pair	Dielectric	Foamed polyethylene	1.45 mm

Outerjacket 1:

Material	Nominal Diameter	Diameter +/- Tolerance	Ripcord
FRNC / LSNH	7.2 mm	0.3 mm	Yes

Conductor:

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

Outershield 1:

Type	Material	Min. Coverage
Braid	Tinned copper	30 in

Coupling Attenuation:

Coupling Attenuation
Type II V

Product Variants

Part Number	Color	Put-Up Type	Length
1885ENC.00500	GRAY	Reel	500 m

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