



Part Number: 7965ENH.001000

Category 6 Nonbonded-Pair ScTP Cable

Product Description

CAT6 (250MHz), 4-Pair, U/UTP Unshielded, Premise Horizontal Cable, 23 AWG solid bare copper conductors, Polyethylene insulation, LSZH jacket

Product Specifications

AG.Filter Attributes

Total Number of Conductors:	8

Application

Cabling1

Description@Cabling1:	4 pairs twisted together
Filler@Cabling1:	Cross Web of Polyolefin

Conductor

of Pairs: 4

Technical Specifications

Applicable Patents

nt:	http://www.belden.com/p	
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Bend Radius

Min Bend Radius During Installation:	46 mm
Min Bend Radius During Operation:	23 mm

CCB-Sub-Material

Min Elongation at Breakof Conductors:	10 %
Min Elongation at Breakof Insulation:	100 %
Min Elongation at Breakof Jacket:	100 %
Min Tensile Strength of Jacket:	9 MPa

Coupling Attenuation

Coupling Attenuation Class: Type III

EMEA Standard

CENELEC Compliance:	EN 50173-1 (2011)

General Electrical Parameters

General Electrical Parameters Header:	Reference standard: ISO/IEC 61156 - 5 ed. 2.0 (2009)
Min Insulation Resistance:	5000 MOhm*km
Dielectric Strength Cond-Cond (2 sec.):	2.5 kV DC

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 (yyyy-mm-dd):	2015-04-13
Revision Number:	6

North American Standard

ANSI Compliance:	ANSI/TIA/EIA 568-C.2 (2009)
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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:	455 kJ/m
Max Recommended Pulling Tension:	80 N

Impedance:

Nominal Characteristic Impedance

100 Ohm

Conductor DCR:

Max. Conductor DCR	Max DCR Unbalanced Between Pairs [%]	Max. DCR Unbalanced Within Pair [%]
95 Ohm/km	4 %	2 Ohm

Color Chart 1:

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

Delay:

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]	
40 ns/100m		70 %

Voltage:

Voltage Rating [V]

72 V

Current:

	Max.	Recommended Curre	nt [A]
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1.5 A

High Freq:

Element	Frequency [MHz]	Max. Inser Loss (Attenuatio		Min. NEXT [dB]	Min. PSNE [dB]	EXT .	Min. ACR [dB]	Min. PSAC [dB]	CR (/lin. A ELFE) dB]			. PSA ELFE)		Min. R (Return [dB]		Min.) TCL [dB]	Min. ELTCTL [dB]
1 MHz	2.1 dB/100)m	75.3 dE	3	72.3 dE	3	73.2 d	В	70.2	dB		70 dB	67	dB	20 dB	4	0 dB	35 dB
4 MHz	3.8 dB/100)m	66.3 dE	3	63.3 dE	3	62.4 d	В	59.4	dB		58 dB	55	dB	23 dB	3	4 dB	23 dB
10 MHz	6 dB/10	0m	60.3 dB		57.3 dB		54.3 dl	В	51.3	dB		50 dB	47	dB	25 dB	3	0 dB	15 dB
16 MHz	7.6 dB/10)0m	57.2 dB	5-	4.2 dB	49	9.6 dB	46	6.6 dB	4	15.9	dB	42.9	dB	25 dB	28	dB	10.9 dB
20 MHz	8.5 dB/1	00m	55.8	dB	52.8	dB	47.3	dB	44	.3 dB		44 dE	3	41 dB	25 c	dB	27 dB	9 dB
31.2 MHz	10.7 dE	3/100m	52.9	dB	49.9 dE	3	42.1 dB	39	9.1 dB	4	0.1	dB :	37.1 d	В 2	23.6 dB	25	5.1 dB	5.1 dB
62.5 MHz	15.5 0	dB/100m	4	8.4 dB	45	i.4 dB	32	2.9 dB	ź	29.9 d	В	34.1	dB	31.1	dB	21.5	i dB	22 dB
100 MHz	19.9 c	IB/100m		45.3 dE	3 4	12.3 dl	В	25.4 c	lB	22.	4 dB	3	30 dB	27	dB	20.1	dB	20 dB
155 MHz	25.3 dE	3/100m	42.	4 dB	39.4	· dB	17.1	l dB	14	1 dB		26.2 dE	3	23.2 dl	3	18.8 dE	3	18.1 dB
200 MHz	29.1	dB/100m		40.8 0	dB	37.8	dB	11.	6 dB		8.6 c	dB	24 dE	3 2	21 dB	18	dB	17 dB
250 MHz	33 dI	B/100m	3	9.3 dB	3	86.3 dE	3	6.3 d	В	3.3 (dB	22	dB	19 dl	В	17.3 dl	3	16 dB
): Limits be	low 4MHz ar	e for informa	ation onl	у.														

Capacitance:

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

Insulation:

Element	Туре	Material	Nominal Diameter	
Individual pair		Dielectric	Polyethylene	0.96 mm

Outerjacket 1:

Material	Color	Nominal Diameter	Diameter +/- Tolerance		
FRNC / LSZH	Grey (RAL 7032),	Blue (RAL 5015) or purple (RAL 4005)		5.7 mm	0.3 mm

Conductor:

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

Other Electrical Information:

Min Insulation	Resistance	5000 MOhm*km

Dielectric Strength Cond-Cond (2 sec.)	2.5 kV DC
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Coupling Attenuation:

Element	Coupling Attenuation [dB]	
Type III V dB		
Type III		

Product Variants

Part Number	Color	Put-Up Type	Length
7965ENH.001000	BLUE	Reel	1000 m
7965ENH.003050	GRAY, RAL 7032	Reel	3050 m
7965ENH.00305	BLUE	Reel	305 m
7965ENH.00500	BLUE	Reel	500 m
7965ENH.00A305	BLUE	Reel-in-Box	305 m
7965ENH.00B100	BLUE	Flat Box	100 m
7965ENH.011000	GRAY	Reel	1000 m
7965ENH.01305	GRAY, RAL 7032	Reel	305 m
7965ENH.001000	GRAY	Reel	1000 m
7965ENH.01500	GRAY, RAL 7032	Reel	500 m
7965ENH.01A305	GRAY, RAL 7032	Reel-in-Box	305 m
7965ENH.023050	GRAY, RAL 7032	Reel	
7965ENH.001000	PURPLE	Reel	305 m
7965ENH.001000	PURPLE	Reel	500 m
7965ENH.03A305	PURPLE	Reel-in-Box	305 m
7965ENH.041000	WHITE	Reel	1000 m
7965ENH.04A305	WHITE, RAL 9010	Reel-in-Box	305 m
7965ENH.05A305	ORANGE	Reel-in-Box	305 m
7965ENH.06305	green	Reel	305 m
7965ENH.06A305	green	Reel-in-Box	305 m
7965ENH.001000	BLUE	Reel	1000 m
7965ENH.001000	BLUE	Reel	305 m
7965ENH.001000		Reel-in-Box	305 m
7965ENH.001000	GRAY	Reel	305 m
7965ENH.001000	GRAY, RAL 7032	Reel	500 m
7965ENH.001000	GRAY, RAL 7032	Reel-in-Box	305 m
7965ENH.001000	PURPLE	Reel-in-Box	305 m
7965ENH.001000		Reel-in-Box	305 m
7965ENH.001000			

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