Part Number: 7965E.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, PVC jacket

Product Specifications

AG.Filter Attributes

Total Number of Conductors:	8

Application

Suitable Applications:	Horizontal and building backbone cable; Support current and future Category 6 and 5e applications, such as: 1000Base - T (Gigabit Ethernet), 100 Base - T, 10 Base - T, FDDI, ATM

Cabling1

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

Conductor

Total Number of Pairs:	4

Technical Specifications

Applicable Patents

Patent:	http://www.belden.com/p

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)

History

Revision Date (yyyy-mm-dd):	2015-04-14
Revision Number:	4

North American Standard

ANSI Compliance:	ANSI/TIA/EIA 568-C.2 (2009)

Safety

ISO/IEC Flammability:	IEC 60332-1

Use

Burning Load:	460 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 Current [A]
1.5 A

High Freq:

Element	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. TCL [dB]	Min. ELTCTL [dB]
1 MHz	2.1 dB/100m	75.3 dB	72.3 dB	73.2 dB	70.2 dB	70 dB	67 dB	20 dB	40 dB	35 dB	

4 MHz	3.8 dB/100m	66.3 dB	63.3 dB	62.4 dB	59.4 dB	58 dB	55 dB	23 dB	34 dB	23 dB
10 MHz	6 dB/100m	60.3 dB	57.3 dB	54.3 dB	51.3 dB	50 dB	47 dB	25 dB	30 dB	15 dB
16 MHz	7.6 dB/100m	57.2 dB	54.2 dB	49.6 dB	46.6 dB	45.9 dB	42.9 dB	25 dB	28 dB	10.9 dB
20 MHz	8.5 dB/100m	55.8 dB	52.8 dB	47.3 dB	44.3 dB	44 dB	41 dB	25 dB	27 dB	9 dB
31.2 MHz	10.7 dB/100m	52.9 dB	49.9 dB	42.1 dB	39.1 dB	40.1 dB	37.1 dB	23.6 dB	25.1 dB	5.1 dB
62.5 MHz	15.5 dB/100m	48.4 dB	45.4 dB	32.9 dB	29.9 dB	34.1 dB	31.1 dB	21.5 dB	22 dB	
100 MHz	19.9 dB/100m	45.3 dB	42.3 dB	25.4 dB	22.4 dB	30 dB	27 dB	20.1 dB	20 dB	
155 MHz	25.3 dB/100m	42.4 dB	39.4 dB	17.1 dB	14.1 dB	26.2 dB	23.2 dB	18.8 dB	18.1 dB	
200 MHz	29.1 dB/100m	40.8 dB	37.8 dB	11.6 dB	8.6 dB	24 dB	21 dB	18 dB	17 dB	
250 MHz	33 dB/100m	39.3 dB	36.3 dB	6.3 dB	3.3 dB	22 dB	19 dB	17.3 dB	16 dB	
): Limits below 4MHz are for information only.										

Capacitance:

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

Insulation:

Element	Type	Material	Nominal Diameter
Individual pair	Dielectric	Polyethylene	0.96 mm

Outerjacket 1:

Material	Color	Nominal Diameter	Diameter +/- Tolerance
PVC	Grey or Blue	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

Coupling Attenuation:

Element	Coupling Attenuation [dB]
	Type III V dB

Type III

Product Variants

Part Number	Color	Put-Up Type	Length
7965E.001000	YELLOW	Reel	305 m
7965E.001000	GREEN, DARK	Reel	305 m
7965E.001000	BLUE, LIGHT	Reel	305 m
7965E.001000	BLUE, LIGHT	Reel	305 m
7965E.001000	LIGHT DEC GRAY	Reel	305 m
7965E.001000	LIGHT DEC GRAY	Reel	305 m
7965E.001000	GRAY, RAL 7032	Reel	1000 m
7965E.00200	GRAY, RAL 7032	Reel	200 m
7965E.00305	GRAY, RAL 7032	Reel	305 m
7965E.00500	GRAY, RAL 7032	Reel	500 m
7965E.00A305	GRAY, RAL 7032	Reel-in-Box	305 m
7965E.00B100	GRAY, RAL 7032	Flat Box	100 m
7965E.011000	BLUE	Reel	1000 m
7965E.01200	BLUE	Reel	200 m
7965E.01305	BLUE	Reel	305 m
7965E.01500	BLUE	Reel	500 m
7965E.01A305	BLUE	Reel-in-Box	305 m
7965E.01B100	BLUE	Flat Box	100 m
7965E.023050	GRAY, RAL 7032	Reel	
7965E.001000	Green	Reel	305 m
7965E.03500	Green	Reel	500 m
7965E.001000			
7965E.001000	BLACK	Reel-in-Box	305 m
7965E.001000	GRAY	Reel	1000 m
7965E.001000	GRAY	Reel	305 m
7965E.001000	GRAY	Reel	500 m
7965E.001000	GRAY	Reel-in-Box	305 m
7965E.001000	BLUE	Reel	1000 m
7965E.001000	BLUE	Reel	305 m
7965E.001000	BLUE	Reel	500 m
7965E.001000	BLUE	Reel-in-Box	305 m

7965E.001000	GREEN	Reel	305 m
7965E.001000	YELLOW	Reel	305 m
7965E=00305	GRAY, RAL 7032	Reel	305 m
7965E=01305	BLUE	Reel	305 m
7965E=01500	BLUE	Reel	500 m
7965E.001000			

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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.