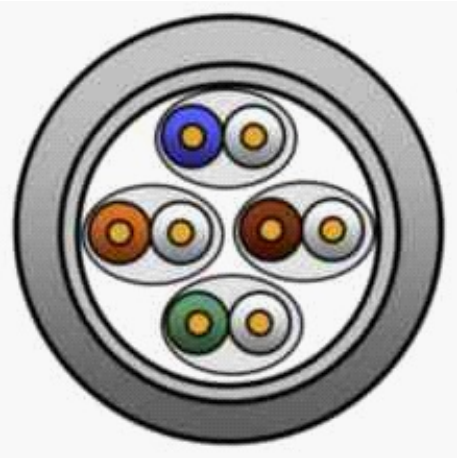

Part Number: 1885ENH.001000

Category 7 Nonbonded-Pair ScTP Cable

Product Description

CAT7 (1000MHz), 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 (passes bundle flame test IEC60332-3-24)

Product Specifications

AG.Filter Attributes

Total Number of Conductors:	8

Application

Suitable Applications:	Horizontal and building backbone cable; 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

Description@Cabling1:	4 shielded pairs twisted together

Conductor

Total Number of Pairs:	4

Technical Specifications

Applicable Patents

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

Bend Radius

Min Bend Radius During Installation:	58 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 %
Min Tensile Strength of Jacket:	9 MPa

Coupling Attenuation

Coupling Attenuation Class:	Type II

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
Dielectric Strength Cond-Screen (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):	2014-03-12
Revision Number:	9

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:	500 kJ/m
Max Recommended Pulling Tension:	85 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
Pair 2	White & Orange
Pair 3	White & Green
Pair 4	White & Brown

Delay:

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
25 ns/100m	78 %

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 dB/100m	78 dB	75 dB	76 dB	73 dB	78 dB	75 dB	20 dB	40 dB	35 dB
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
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	Aluminum / 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 Unbalance	Max. Mutual Capacitance
1,600 pF/m	56 pF/m

High Frequency (Nominal/Typical):

Frequency [MHz]	Nom. Insertion Loss	Nom. NEXT [dB]	Nom. PSNEXT [dB]	Nom. ACR [dB]	Nom. PSACR [dB]	Nom. ACRF (ELFEXT) [dB]	Nom. PSACRF (PSELFEXT) [dB]
1 MHz	1.8 dB/100m	103 dB	100 dB	101 dB	98 dB	95 dB	92 dB
4 MHz	3.4 dB/100m	100 dB	97 dB	97 dB	94 dB	94 dB	91 dB
10 MHz	5.5 dB/100m	98 dB	95 dB	92 dB	89 dB	93 dB	92 dB
16 MHz	6.9 dB/100m	97 dB	94 dB	90 dB	87 dB	91 dB	88 dB
31.2 MHz	9.7 dB/100m	95 dB	92 dB	85 dB	82 dB	90 dB	87 dB
62.5 MHz	13.9 dB/100m	94 dB	91 dB	80 dB	77 dB	87 dB	84 dB
100 MHz	17.7 dB/100m	93 dB	90 dB	75 dB	72 dB	85 dB	82 dB
125 MHz	19.9 dB/100m	92 dB	89 dB	72 dB	69 dB	83 dB	80 dB
200 MHz	25.6 dB/100m	91 dB	88 dB	65 dB	64 dB	77 dB	74 dB
250 MHz	28.8 dB/100m	90 dB	87 dB	61 dB	58 dB	74 dB	71 dB
300 MHz	31.8 dB/100m	90 dB	87 dB	58 dB	55 dB	74 dB	71 dB
600 MHz	46.6 dB/100m	89 dB	86 dB	42 dB	39 dB	60 dB	57 dB
100 MHz	62.2 dB/100m	88 dB	85 dB	26 dB	23 dB	50 dB	47 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 / LSZH	7.0 mm	0.3 mm	Yes

Conductor:

Element	AWG	Stranding	Material	No. of Pairs
Individual shielded 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
Dielectric Strength Cond-Screen (2 sec.)	2.5 kV DC

Outershield 1:

Type	Material	Min. Coverage [%]

Braid	Tinned copper	30 %

Coupling Attenuation:

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

Product Variants

Part Number	Color	Put-Up Type	Length
1885ENH.001000	GRAY, RAL 7032	Reel	1000 m
1885ENH.00B100	GRAY, RAL 7032	Flat Box	100 m
1885ENH.011000	BLUE	Reel	1000 m
1885ENH.01500	BLUE	Reel	500 m
1885ENH.01B100	BLUE, RAL 5015	Flat Box	100 m
1885ENH.021000	YELLOW, RAL 1021	Reel	1000 m
1885ENH.02500	YELLOW, RAL 1021	Reel	500 m
1885ENH.03500	GRAY, RAL 7032	Reel	500 m
1885ENH.04500	RED	Reel	500 m
1885ENH.05500	ORANGE	Reel	500 m
1885ENH.001000	GRAY, RAL 7032	Reel	1000 m
1885ENH.001000	BLUE	Reel	500 m
1885ENH.001000	YELLOW	Reel	500 m
1885ENH.001000	RED	Reel	500 m
1885ENH.001000	ORANGE	Reel	500 m
1885ENH.001000			