



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. ELCTL [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
4 MHz	3.4 dB/100m		100 dB	97 dB	97 dB	94 dB	91 dB
10 MHz	5.5 dB/100m		98 dB	95 dB	92 dB	89 dB	93 dB
16 MHz	6.9 dB/100m		97 dB	94 dB	90 dB	87 dB	91 dB
31.2 MHz	9.7 dB/100m		95 dB	92 dB	85 dB	82 dB	90 dB
62.5 MHz	13.9 dB/100m		94 dB	91 dB	80 dB	77 dB	87 dB
100 MHz	17.7 dB/100m		93 dB	90 dB	75 dB	72 dB	85 dB
125 MHz	19.9 dB/100m		92 dB	89 dB	72 dB	69 dB	83 dB
200 MHz	25.6 dB/100m		91 dB	88 dB	65 dB	64 dB	77 dB
250 MHz	28.8 dB/100m		90 dB	87 dB	61 dB	58 dB	74 dB
300 MHz	31.8 dB/100m		90 dB	87 dB	58 dB	55 dB	74 dB
600 MHz	46.6 dB/100m		89 dB	86 dB	42 dB	39 dB	60 dB
100 MHz	62.2 dB/100m		88 dB	85 dB	26 dB	23 dB	50 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			

© 2017 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

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