



1887ENH

Part Number: 1887ENH

Category 7 Nonbonded-Pair ScTP Cable

Product Description

CAT7 (600MHz) shotgun, 2 x 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
-------------------------------------	-----------------------------------

Technical Specifications

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 MPa
Min Tensile Strength of Jacket:	9 lbs

EMEA Standard

CENELEC Compliance:	EN 50173-1 (2011)
---------------------	-------------------

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)
---------------------	---

History

Revision Date:	41449
Revision Number:	8

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:	1000 kJ/m
Max Recommended Pulling Tension:	170 lbs

Impedance:

Nominal Characteristic Impedance

100 mOhm/ft

Conductor DCR:

Max. Conductor DCR	Max DCR Unbalanced Between Pairs	Max. DCR Unbalanced Within Pair
95 Ohm/100m	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 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
	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	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
1887ENH.001000	GRAY, RAL 7032	Reel	1000 m
1887ENH.00100	GRAY, RAL 7032	Reel	100 m
1887ENH.00500	GRAY, RAL 7032	Reel	500 m
1887ENH.01100	BLUE	Reel	100 m
1887ENH.01500	BLUE	Reel	500 m
1887ENH.02500	YELLOW, RAL 1021	Reel	500 m

© 2015 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.