



## 1888ENH

Part Number: 1888ENH

Category 7A Nonbonded-Pair ScTP Cable

### Product Description

CAT7A (1000MHz), 4-Pair, S/FTP shielded, Premise Horizontal Cable, 22 AWG solid bare copper conductors, Foam Polyolefin insulation, each pair with Beldfoil® shield, overall tinned copper braid shield (50% coverage), LSZH jacket

### Product Specifications

#### Application

Application 1:	Horizontal and building backbone cable
Application 2:	Support current and future Category 6a, 7 and 7a applications: 10GBase-T (10 Gigabit Ethernet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM

#### Cabling1

Cabling1, Description:	4 shielded pairs twisted together
------------------------	-----------------------------------

### Technical Specifications

#### Bend Radius

Min Bend Radius During Installation:	65 mm
Min Bend Radius During Operation:	33 mm

#### CCB-Sub-Material

Min Elongation at Breakof Conductors:	10 %
Min Elongation at Breakof Insulation:	100 %

Min Elongation at Break of 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:	40931
Revision Number:	5

## Safety

ISO/IEC Flammability:	IEC 60332-1
Amt of Halogen Acid Gas; Max Conductivity:	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:	650 kJ/m
Max Recommended Pulling Tension:	105 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 &amp; Blue

Pair 2

White &amp; Orange

Pair 3

White &amp; Green

Pair 4

White &amp; 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 (SELFEXT)	Min. RL (Loss)	Min. PSANEXT	Min. PSAACRF	Min. RFTCL	Min. ELTCL
---------	-----------------	-----------------------------------	-----------	-------------	----------	------------	--------------------	-----------------------	----------------	--------------	--------------	------------	------------

	1 MHz	2.1 db/100m	78 dB	75 dB	75.9 dB	72.9 dB	78 dB	75 dB	20 dB	67 dB	67 dB	40 dB	23 dB
--	-------	-------------	-------	-------	---------	---------	-------	-------	-------	-------	-------	-------	-------

	4 MHz	3.7 db/100m	78 dB	75 dB	74.3 dB	71.3 dB	78 dB	75 dB	23 dB	67 dB	67 dB	34 dB	15 dB
--	-------	-------------	-------	-------	---------	---------	-------	-------	-------	-------	-------	-------	-------

10 MHz	5.8 db/100m	78 dB	75 dB	72.2 dB	69.2 dB	75.3 dB	72.3 dB	25 dB	67 dB	67 dB	30 dB	10.9 dB
16 MHz	7.3 db/100m	78 dB	75 dB	70.7 dB	67.7 dB	71.2 dB	68.2 dB	25 dB	67 dB	67 dB	28 dB	5.1 dB
31.2 MHz	10.3 db/100m	78 dB	75 dB	67.7 dB	64.7 dB	65.4 dB	62.4 dB	23.6 dB	67 dB	63.3 dB	25.2 dB	
62.5 MHz	14.6 db/100m	78 dB	75 dB	63.4 dB	60.4 dB	59.4 dB	56.4 dB	21.5 dB	67 dB	57.3 dB	22 dB	
100 MHz	18.5 db/100m	75.4 dB	72.4 dB	56.9 dB	53.9 dB	55.3 dB	52.3 dB	20.1 dB	67 dB	53.2 dB	20 dB	
155 MHz	23.2 db/100m	72.5 dB	69.5 dB	49.3 dB	46.3 dB	51.5 dB	48.5 dB	18.8 dB	67 dB	49.4 dB	18.1 dB	
250 MHz	29.7 db/100m	69.4 dB	66.4 dB	39.7 dB	36.7 dB	47.3 dB	44.3 dB	17.3 dB	67 dB	45.2 dB	16 dB	
500 MHz	42.8 db/100m	64.9 dB	61.9 dB	22.2 dB	19.2 dB	41.3 dB	38.3 dB	17.3 dB	67 dB	39.2 dB		
600 MHz	47.1 db/100m	63.7 dB	60.7 dB	16.6 dB	13.6 dB	39.7 dB	36.7 dB	17.3 dB	65.8 dB	37.6 dB		
1000 MHz	61.9 db/100m	60.4 dB	57.4 dB	-1.5 dB	-4.5 dB	35.3 dB	32.3 dB	15.1 dB	62.5 dB	33.2 dB		
1200 MHz	68.4 db/100m	59.2 dB	56.2 dB	-9.1 dB	-12.1 dB	33.7 dB	30.7 dB	14.3 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 1	Max. 10 mOhm/m
10 Mhz		Max. 10 mOhm/m
30 Mhz		Max. 30 mOhm/m
100 Mhz		Max. 100 mOhm/m

#### Capacitance:

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

#### Insulation:

Element	Type	Material	Nominal Diameter
Individual shielded pair	Dielectric	Foamed polyethylene	1.54 mm

#### Outerjacket 1:

Material	Nominal Diameter	Diameter +/- Tolerance	Ripcord
FRNC / LSNH	8.1 mm	0.3 mm	Yes

#### Conductor:

Element	AWG	Stranding	Material	No. of Pairs
Individual shielded pair	22	Solid	Bare copper	4

#### Outershield 1:

Type	Material	Min. Coverage
Braid	Tinned copper	30 in

#### Coupling Attenuation:

Coupling Attenuation
Type IV

## Product Variants

Part Number	Color	Put-Up Type	Length
1888ENH.00500	GRAY	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.