



**Part Number:** 1886ENH

**Category** 7A Nonbonded-Pair ScTP Cable

## Product Description

Cat. 7A (1200MHz), 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

## Technical Specifications

### Product Overview

Environmental Space:	Indoor - Euroclass Dca & Eca
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

### Physical Characteristics (Overall)

#### Conductor

Element	AWG	Stranding	Material	No. of Pairs
Individual shielded pair	23	Solid	Bare copper	4

Total Number of Conductors: 8

#### Insulation

Element	Type	Material	Nominal Diameter
Individual shielded pair	Dielectric	Foamed Polyethylene	1.45 mm

#### Color Chart

Number	Color
Pair 1	White & Blue
Pair 2	White & Orange
Pair 3	White & Green
Pair 4	White & Brown

#### Inner Shield Material

Element	Type	Material	Coverage [%]
Individual shielded pair	Tape	Aluminum / Polyester	100 %

InnerShield, Table Note: Aluminum facing outside

#### Outer Shield Material

Min. Coverage [%]
30 %

#### Outer Jacket Material

Material	Color	Nominal Diameter	Diameter +/- Tolerance	Ripcord
LSZH / FRNC	Grey (RAL 7032)	7.5 mm	0.3 mm	Yes

### Electrical Characteristics

#### Capacitance

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

Shielding:	S/FTP - Overall Braid / Individual Foil
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### Construction and Dimensions

Total Number of Pairs:	4
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)

### Conductor DCR

Max. Conductor DCR	Max DCR Unbalanced Between Pairs [%]	Max. DCR Unbalanced Within Pair [%]
95 Ohm/km	4 %	2 Ohm

### Impedance

Nominal Characteristic Impedance
100 Ohm

### Delay

Max. Delay Skew	Nominal Velocity of Propagation (VP) [%]
25 ns/100m	76 %

### High Freq

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	78 dB	75 dB	75.9 dB	72.9 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	5.8 dB/100m	78 dB	75 dB	72.2 dB	69.2 dB	75.3 dB	72.3 dB	25 dB	30 dB	15 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	28 dB	10.9 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	25.2 dB	5.1 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	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	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	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	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	16 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		
1000 MHz	61.9 dB/100m	60.4 dB	57.4 dB	10.6 dB	-4.5 dB	35.3 dB	32.3 dB	15.1 dB		
1200 MHz	68.4 dB/100m	59.2 dB	56.2 dB	-9.5 dB	-12.1 dB	33.7 dB	30.7 dB	14.3 dB		

High Freq Table Note: Limits below 4MHz are for information only; Values at 1200 MHz are for information only

### Current

Max. Recommended Current [A]
1.5 A

### Voltage

Voltage Rating [V]
75 V

### Coupling Attenuation

Coupling Attenuation [dB]
Type Ib dB

Coupling Attenuation Class: Type II

### 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

Burning Load:	500(kJ/m)
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### Applicable Standards & Environmental Programs

CPR Euroclass:	Eca
GENELEC Compliance:	EN 50173-1 Ed. 3:2011
Patent:	<a href="http://www.belden.com/p">http://www.belden.com/p</a>

### Standards

ISO/IEC Compliance:	ISO/IEC 11801 Ed. 2.0:2002/A2:2010/C1:2011
ANSI/TIA Category:	Category 7A

### Flame Test

ISO/IEC Flammability:	IEC 60332-1
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### Safety

Amt of Halogen IEC 60754-1 /EN50267-1:	Zero
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### Mechanical Characteristics

Installation Temp Range:	0°C To +50°C
Operating Temp Range:	-30°C To +60°C
Bulk Cable Weight:	52(kg/km)
Max Recommended Pulling Tension:	85(N)
Min Bend Radius During Installation:	58 mm
Min Bend Radius During Operation:	29 mm

### History

Revision Number:	1
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### Variants

Item #	Color
1886ENH.01305	BLUE
1886ENH.00500	GRAY

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