



Product: [1300SB](#)

Category 5e Shipboard Cable, ABS, 4 Pair, F/UTP, LSZH

Product Description

Category 5e Shipboard Cable, ABS, 4 Pair, 24 AWG Solid Bare Copper Conductors, F/UTP - Foil Shielded, CMG-LS, LSZH Jacket

Technical Drawing



Technical Specifications

Product Overview

Suitable Applications:	Shipboard, Premise Horizontal Cable, Ethernet 1000BASE-T, Ethernet 100BASE-TX, Ethernet 10BASE-T, PoE++, PoE+, PoE
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Construction Details

Conductor

AWG	Stranding	Material	Number of Pairs
24	Solid	BC - Bare Copper	4

Insulation

Material	Thickness	Nom. Insulation Diameter	Color Code
PO - Polyolefin	0.01 in	0.042	White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

Bonded-Pair:	No
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Outer Shield Material

Type	Material	Coverage	Drainwire Type
Tape	Polyester + Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

Outer Jacket Material

Material	Material Trade Name	Nom. Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Haloarrest®	0.26 in	No

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalance	Max. Capacitance Unbalance	Nom. Mutual Capacitance
93.8 Ohm/km	3%	90 pF/100m	15 pF/ft

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nom. Velocity of Propagation (VP) [%]
100 MHz	538 ns/100m	45 ns/100m	70%

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. SRL (Structural Return Loss)	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2 dB/100m	65.3 dB	62.3 dB	60.3 dB	60.3 dB	63.8 dB	60.8 dB	20 dB	20 dB	100 ± 15	100 ± 15
4 MHz	4.1 dB/100m	56.3 dB	53.3 dB	49.2 dB	49.2 dB	51.7 dB	48.7 dB	23 dB	23 dB	100 ± 15	100 ± 15
8 MHz	5.8 dB/100m	51.8 dB	48.8 dB	43 dB	43 dB	45.7 dB	42.7 dB	24.5 dB	24.5 dB	100 ± 15	100 ± 15
10 MHz	6.5 dB/100m	50.3 dB	47.3 dB	40.8 dB	40.8 dB	43.8 dB	40.8 dB	25 dB	25 dB	100 ± 15	100 ± 15
16 MHz	8.2 dB/100m	47.3 dB	44.3 dB	36.1 dB	36.1 dB	39.7 dB	36.7 dB	25 dB	25 dB	100 ± 15	100 ± 15
20 MHz	9.3 dB/100m	45.8 dB	42.8 dB	33.5 dB	33.5 dB	37.7 dB	34.7 dB	25 dB	25 dB	100 ± 15	100 ± 15
25 MHz	10.4 dB/100m	44.3 dB	41.3 dB	30.9 dB	30.9 dB	35.8 dB	32.8 dB	24.3 dB	24.3 dB	100 ± 15	100 ± 15
31.25 MHz	11.7 dB/100m	42.9 dB	39.9 dB	28.2 dB	28.2 dB	33.9 dB	30.9 dB	23.6 dB	23.6 dB	100 ± 15	100 ± 15
62.5 MHz	17 dB/100m	38.4 dB	35.4 dB	18.4 dB	18.4 dB	27.8 dB	24.8 dB	21.5 dB	21.5 dB	100 ± 15	100 ± 15
100 MHz	22 dB/100m	35.3 dB	32.3 dB	10.3 dB	10.3 dB	23.8 dB	20.8 dB	20.1 dB	20.1 dB	100 ± 15	100 ± 15

Voltage

UL Voltage Rating
300 V (CMG-LS)

Mechanical Characteristics

Temperature

UL Rating	Operating	Installation	Storage
90°C	-20°C To +75°C	-25°C To +75°C	-20°C To +75°C

Bend Radius

Stationary Min.
1.0 in

Max. Pull Tension:	40 lbs
Bulk Cable Weight:	32.4 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Non-Halogenated, Sunlight Resistance
Flammability / Fire Resistance:	UL 1685 (UL Loading-Limited Smoke), IEC 60332-1-2
NEC / UL Compliance:	800, CMG-LS
CEC / C(UL) Compliance:	CMG-LS
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3
Data Category:	Category 5e
Marine Compliance:	ABS certificate 18-HS1803790-PDA
CPR Euroclass:	Dca-s2,d2,a1
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
1300SB 0101000	Black	Reel	1,000 ft	612825111092

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. RJ-45 Compatible. Jacket sequentially marked at 2 ft. intervals.
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History

Update and Revision:	Revision Number: 0.333 Revision Date: 09-30-2020
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