



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

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

Insulation

Material	Color Code
PO - Polyolefin	White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

Outer Shield

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

Outer Jacket

Material	Material Trade Name	Nom. Diameter	Ripcord
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Haloarrest®	0.26 in (6.6 mm)	No

Overall Cable Diameter (Nominal): 0.26 in (6.6 mm)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
93.8 Ohm/km	90 pF/100m

Delay

Frequency	Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
100 MHz	538 ns/100m	45 ns/100m	70%

High Frequency

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) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1	2.0 dB/100m	65.3	62.3	60.3	60.3	63.8	60.8	20	20	100 ± 15 Ohm	100 ± 15 Ohm
4	4.1 dB/100m	56.3	53.3	49.2	49.2	51.7	48.7	23	23	100 ± 15 Ohm	100 ± 15 Ohm
8	5.8 dB/100m	51.8	48.8	43	43	45.7	42.7	24.5	24.5	100 ± 15 Ohm	100 ± 15 Ohm
10	6.5 dB/100m	50.3	47.3	40.8	40.8	43.8	40.8	25	25	100 ± 15 Ohm	100 ± 15 Ohm
16	8.2 dB/100m	47.3	44.3	36.1	36.1	39.7	36.7	25	25	100 ± 15 Ohm	100 ± 15 Ohm
20	9.3 dB/100m	45.8	42.8	33.5	33.5	37.7	34.7	25	25	100 ± 15 Ohm	100 ± 15 Ohm
25	10.4 dB/100m	44.3	41.3	30.9	30.9	35.8	32.8	24.3	24.3	100 ± 15 Ohm	100 ± 15 Ohm
31.25	11.7 dB/100m	42.9	39.9	28.2	28.2	33.9	30.9	23.6	23.6	100 ± 15 Ohm	100 ± 15 Ohm
62.5	17.0 dB/100m	38.4	35.4	18.4	18.4	27.8	24.8	21.5	21.5	100 ± 15 Ohm	100 ± 15 Ohm
100	22.0 dB/100m	35.3	32.3	10.3	10.3	23.8	20.8	20.1	20.1	100 ± 15 Ohm	100 ± 15 Ohm

Voltage

UL Voltage Rating
300 V (CMG-LS)

Mechanical Characteristics

Temperature

UL Temperature	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 (25 mm)

Max. Pull Tension: 40 lbs (18 kg)

Bulk Cable Weight: 32 lbs/1000ft (48 kg/km)

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Non-Halogenated, Sunlight Resistance
Flammability / Reaction to Fire:	UL 1685 (UL Loading-Limited Smoke), IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Dca-s2,d2,a1; CPR UKCA Class: Dca-s2,d2,a1
NEC / UL Compliance:	Article 800, CMG-LS
CEC / C(UL) Compliance:	CMG-ST1
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3
Data Category:	Category 5e
Marine Compliance:	ABS certificate 18-HS1803790-PDA
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)

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.

History

Update and Revision: Revision Number: 0.442 Revision Date: 02-16-2022

Variants

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

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