




**Product:** [1319SB](#) 

Category 6 Shipboard Cable, ABS, 4 Pair, LSZH

**Product Description**

Category 6 Shipboard Cable, ABS, 4 Pair, 23 AWG Solid Bare Copper Conductors, CMG-LS, Upjacketed, 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
23	Solid	BC - Bare Copper	4

**Insulation**

Material	Nom. Insulation Diameter	Color Code
PO - Polyolefin	0.041	White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

Bonded-Pair:	No
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**Inner Jacket Material**

Material	Nom. Diameter	Ripcord
PE - Polyethylene	0.239 in	Yes

## Outer Shield Material

Type	Material	Coverage
Tape	Nomex®	100%

## Outer Jacket Material

Separator Material	Material	Material Trade Name	Nom. Diameter	Ripcord
Dielectric Tape (Patented)	LSZH - Low Smoke Zero Halogen (Flame Retardant)	Haloarrest®	0.293 in	No

## Electrical Characteristics

### Electricals

Max. Conductor DCR	Max. DCR Unbalance	Max. Capacitance Unbalance	Nom. Mutual Capacitance
93.8 Ohm/km	3%	160 pF/100m	15 pF/ft

### Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nom. Velocity of Propagation (VP) [%]
100 MHz	537.6 ns/100m	45 ns/100m	70%

### High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance	Min. TCL [dB]	Min. ELTCTL [dB]
1 MHz	2.0 dB/100m	74.3 dB	72.3 dB	70.3 dB	67.8 dB	64.8 dB	20.0 dB	100 ± 15 Ohm	100 ± 15 Ohm	40.0 dB	35.0 dB
4 MHz	3.8 dB/100m	65.3 dB	63.3 dB	59.5 dB	55.7 dB	52.7 dB	23.0 dB	100 ± 15 Ohm	100 ± 15 Ohm	40.0 dB	23.0 dB
8 MHz	5.3 dB/100m	60.8 dB	58.8 dB	53.4 dB	49.7 dB	46.7 dB	24.5 dB	100 ± 15 Ohm	100 ± 15 Ohm	40.0 dB	16.9 dB
10 MHz	6.0 dB/100m	59.3 dB	57.3 dB	51.4 dB	47.8 dB	44.8 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm	40.0 dB	15.0 dB
16 MHz	7.6 dB/100m	56.3 dB	54.3 dB	46.7 dB	43.7 dB	40.7 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm	38.0 dB	10.9 dB
20 MHz	8.5 dB/100m	54.8 dB	52.8 dB	44.3 dB	41.7 dB	38.7 dB	25.0 dB	100 ± 15 Ohm	100 ± 15 Ohm	37.0 dB	9.0 dB
25 MHz	9.5 dB/100m	53.3 dB	51.3 dB	41.8 dB	39.8 dB	36.8 dB	24.3 dB	100 ± 15 Ohm	100 ± 15 Ohm	36.0 dB	7.0 dB
31.25 MHz	10.7 dB/100m	51.9 dB	49.9 dB	39.2 dB	37.9 dB	34.9 dB	23.6 dB	100 ± 15 Ohm	100 ± 15 Ohm	35.1 dB	5.1 dB
62.5 MHz	15.4 dB/100m	47.4 dB	45.4 dB	30.0 dB	31.8 dB	28.8 dB	21.5 dB	100 ± 15 Ohm	100 ± 15 Ohm	32.0 dB	
100 MHz	19.8 dB/100m	44.3 dB	42.3 dB	22.5 dB	27.8 dB	24.8 dB	20.1 dB	100 ± 15 Ohm	100 ± 15 Ohm	30.0 dB	
155 MHz	25.2 dB/100m	41.5 dB	39.5 dB	14.3 dB	23.9 dB	20.9 dB	18.8 dB	100 ± 22 Ohm	100 ± 15 Ohm	28.1 dB	
200 MHz	29.0 dB/100m	39.8 dB	37.8 dB	8.8 dB	21.7 dB	18.7 dB	18.0 dB	100 ± 22 Ohm	100 ± 15 Ohm	27.0 dB	
250 MHz	32.8 dB/100m	38.3 dB	36.3 dB	3.5 dB	19.8 dB	16.8 dB	17.3 dB	100 ± 32 Ohm	100 ± 15 Ohm	26.0 dB	

### Voltage

UL Voltage Rating
300 V (CMG-LS)

## Mechanical Characteristics

### Temperature

UL Rating	Operating	Installation	Storage
105°C	-20°C To +75°C	0°C To +50°C	-20°C To +75°C

### Bend Radius

Stationary Min.	Installation Min.
1.25 in	3.0 in

Max. Pull Tension:	25 lbs
Bulk Cable Weight:	42 lbs/1000ft

## Standards and Compliance

Environmental Suitability:	Indoor/Outdoor, Indoor, Outdoor, Non-Halogenated
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
ICEA Compliance:	S-116-732-2013
ICEA Compliance:	S-56-434
ICEA Compliance:	S-99-689
ICEA Compliance:	S-100-685
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4

NEMA Compliance:	ANSI/NEMA WC-66
Data Category:	Category 6
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 6
Marine Compliance:	ABS certificate 18-HS1803790-PDA
CPR Euroclass:	Eca
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
1319SB 0101000	Black	Reel	1,000 ft	612825111825
1319SB 0105000	Black	Reel	5,000 ft	612825111832

### Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Print Includes Descending Footage Markings from Max. Put-Up Length to 0.
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### History

Update and Revision:	Revision Number: 0.383 Revision Date: 09-30-2020
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