

## 1319SB Multi-Conductor - Category 6 UTP - ABS Type Approved



For more Information  
please call

1-800-Belden1



### General Description:

23 AWG solid bare copper conductors, polyolefin insulation, LSZH jacket with ripcord, descending footage marking every two feet.

### Usage (Overall)

**Suitable Applications:** Shipboard, Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, Cat 6, ABS Type Approval, WI-FI, Wireless LAN, Outdoor Antenna, Radio, Broadband

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4       | 23  | Solid     | BC - Bare Copper   |

**Total Number of Conductors:** 8

#### Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|---------------------|------------|
| PO - Polyolefin     | 0.041      |

#### Inner Jacket

Inner Jacket Material:

| Inner Jacket Material         | Nom. Dia. (in.) |
|-------------------------------|-----------------|
| LSZH - Low Smoke Zero Halogen | 0.239           |

**Inner Jacket Ripcord:** Yes

#### Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material         |
|-------------------------------|
| LSZH - Low Smoke Zero Halogen |

**Outer Jacket Ripcord:** No

### Overall Cable

**Overall Cabling Fillers:** Rod Center Member

**Overall Nominal Diameter:** 0.293 in.

### Pair

Pair Color Code Chart:

| Number | Color                          |
|--------|--------------------------------|
| 1      | White/Blue Stripe and Blue     |
| 2      | White/Orange Stripe and Orange |
| 3      | White/Green Stripe and Green   |
| 4      | White/Brown Stripe and Brown   |

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -30°C To +105°C

**Bulk Cable Weight:** 42 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 40 lbs.

**Min. Bend Radius/Minor Axis:** 3 in.

### Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

## 1319SB Multi-Conductor - Category 6 UTP - ABS Type Approved

|                                       |   |
|---------------------------------------|---|
| NEC/(UL) Specification:               | CMG-LS  |
| CEC/C(UL) Specification:              | CMG-LS  |
| EU Directive 2011/65/EU (ROHS II):    | Yes   |
| IEEE Specification:                   | Std. 45 clause 23   |
| EU CE Mark:                           | Yes   |
| EU Directive 2000/53/EC (ELV):        | Yes   |
| EU Directive 2002/95/EC (RoHS):       | Yes   |
| EU RoHS Compliance Date (mm/dd/yyyy): | 08/08/2006  |
| EU Directive 2002/96/EC (WEEE):       | Yes   |
| EU Directive 2003/11/EC (BFR):        | Yes   |
| CA Prop 65 (CJ for Wire & Cable):     | Yes   |
| MII Order #39 (China RoHS):           | Yes   |
| Telecommunications Standards:         | Category 6 - TIA 568.C.2  |
| Other Specification:                  | NEMA WC-63.1 Category 6, UL 444, ABS Type Approval Certificate 06-HS184641G |

### Flame Test

|                  |                                   |
|------------------|-----------------------------------|
| UL Flame Test:   | UL1685 FT4 Loading, Limited Smoke |
| CSA Flame Test:  | FT4, Limited Smoke                |
| IEC Flame Test:  | 60332-1, 60332-3-22 (Category A)  |
| IEEE Flame Test: | 1202                              |

### Suitability

|                        |     |
|------------------------|-----|
| Suitability - Indoor:  | Yes |
| Suitability - Outdoor: | Yes |
| Sunlight Resistance:   | Yes |

### Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

## Electrical Characteristics (Overall)

### Nom. Mutual Capacitance:

Capacitance (pF/ft)  
15

Maximum Capacitance Unbalance (pF/100 m): 330

### Nominal Velocity of Propagation:

VP (%)  
70

### Maximum Delay:

Delay (ns/100 m)  
537 @ 100MHz

### Max. Delay Skew:

Delay Skew (ns/100 m)  
45

### Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)  
8.2

### Max. Operating Voltage - UL:

Voltage  
300 V RMS

### Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)  
5

## Electrical Characteristics-Premise (Overall)

### Premise Cable Electrical Table 1:

| Freq. (MHz) | Max. Attenuation (dB/100 m) | Min. NEXT (dB) | Min. PSNEXT (dB) | Min. ACR (dB) | Min. PSACR (dB) | Min RL (dB) | Min. SRL (dB) |
|-------------|-----------------------------|----------------|------------------|---------------|-----------------|-------------|---------------|
| 1           | 2.0                         | 74.3           | 72.3             | 72.3          | 70.3            | 20.0        | na            |
| 4           | 3.8                         | 65.3           | 63.3             | 61.5          | 59.5            | 23.0        | na            |
| 8           | 5.3                         | 60.8           | 58.8             | 55.4          | 53.4            | 24.5        | na            |

## 1319SB Multi-Conductor - Category 6 UTP - ABS Type Approved

|       |      |      |      |      |      |      |    |
|-------|------|------|------|------|------|------|----|
| 10    | 6.0  | 59.3 | 57.3 | 53.3 | 51.3 | 25.0 | na |
| 16    | 7.6  | 56.2 | 54.3 | 48.7 | 46.7 | 25.0 | na |
| 20    | 8.5  | 54.8 | 52.8 | 46.3 | 44.3 | 25.0 | na |
| 25    | 9.5  | 53.3 | 51.3 | 43.8 | 41.8 | 24.3 | na |
| 31.25 | 10.7 | 51.9 | 49.9 | 41.2 | 39.2 | 23.6 | na |
| 62.5  | 15.4 | 47.4 | 45.4 | 32.0 | 30.0 | 21.5 | na |
| 100   | 19.8 | 44.3 | 42.3 | 24.5 | 22.5 | 20.1 | na |
| 155   | 25.2 | 41.5 | 39.5 | 16.3 | 14.3 | 18.8 | na |
| 200   | 29.0 | 39.8 | 37.8 | 10.8 | 8.8  | 18.0 | na |
| 250   | 32.8 | 38.3 | 36.3 | 5.5  | 3.5  | 17.3 | na |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ELFEXT (dB) | Min. PSELFEXT (dB) |
|-------------|------------------------------|------------------|------------------|--------------------|
| 1           | 100 ± 15                     | 100 ± 15         | 67.8             | 64.8               |
| 4           | 100 ± 15                     | 100 ± 15         | 55.8             | 52.7               |
| 8           | 100 ± 15                     | 100 ± 15         | 49.7             | 46.7               |
| 10          | 100 ± 15                     | 100 ± 15         | 47.8             | 44.8               |
| 16          | 100 ± 15                     | 100 ± 15         | 43.7             | 40.7               |
| 20          | 100 ± 15                     | 100 ± 15         | 41.8             | 38.8               |
| 25          | 100 ± 15                     | 100 ± 15         | 39.8             | 36.8               |
| 31.25       | 100 ± 15                     | 100 ± 15         | 37.9             | 34.9               |
| 62.5        | 100 ± 15                     | 100 ± 15         | 31.9             | 28.9               |
| 100         | 100 ± 15                     | 100 ± 15         | 27.8             | 24.8               |
| 155         | 100 ± 22                     | 100 ± 15         | 23.9             | 20.9               |
| 200         | 100 ± 22                     | 100 ± 15         | 21.8             | 18.8               |
| 250         | 100 ± 32                     | 100 ± 15         | 19.8             | 16.8               |

### Notes (Overall)

Notes: RJ-45 Compatible. Jacket marked with descending footage at 2 ft. intervals.

### Put Ups and Colors:

| Item #         | Putup    | Ship Weight | Color | Notes | Item Desc                 |
|----------------|----------|-------------|-------|-------|---------------------------|
| 1319SB 0101000 | 1,000 FT | 46.000 LB   | BLACK | C     | 4 PR #23 PP FRNHPO FRNHPO |
| 1319SB 0105000 | 5,000 FT | 235.000 LB  | BLACK |       | 4 PR #23 PP FRNHPO FRNHPO |

Notes:  
C = CRATE REEL PUT-UP.

Revision Number: 3    Revision Date: 01-08-2013

© 2016 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 2014/35/EU).