SimplyCABLE™ STANDARD SERIES
Powered by SCP

# Cat6 Standard Series Datasheet

**PART #: SC-BC1600LSXX**

## Cat6 UTP
## LSZH Rated, ETL

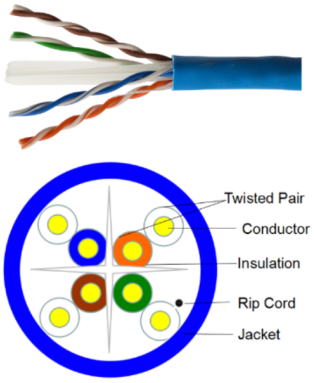
Cat6 LSZH Standard Series - 550MHz 23AWG Solid BC 4PR, UTP, Low Smoke Zero Halogen, ANSI/TIA-568.2-D, IEEE 802.3at PoE 30W (Type 2), RoHS, EN50575 Dca-s2,d2,a1 LSZH Jkt - 1000ft/305m Box

PoE Rated | Reelex II No Tangle Box | LSZH Rated | Limited Lifetime Warranty

### Construction

| | |
|---|---|
| Cable Construction | UTP |
| Jacket Material/Rating | LSZH |
| Reaction to Fire | EN 50575 |
| EuroClass | Dca-s2,d2,a1 |
| Installation Type | Indoor |
| Enhanced Tested Bandwidth | 550 MHz |
| ISO/IEC 11801 Class Type | Class E |
| Transmission Standards | 1G |
| PoE Rating (IEEE 802.3af,at,bt) | 15W/30W Type 2 |
| Wire Conductors | Solid BC |
| Wire AWG | 23 AWG |
| Conductor Insulation | HDPE |
| Pair Separator/Spline | HDPE |
| Cable Overall Diameter (OD) | 5.9-6.0mm |
| Insulated Conductor OD | 0.96-1.02mm |
| Packaging Type | Reelex II Pullbox |
| Packaged Length (ft/m) | 1000ft/305m |




### Key Features

- 550MHz Class E Bandwidth Performance
- PoE Rated Type 2 30W
- 3rd Party ETL Verified
- Low Smoke Zero Halogen Rated Jacket
- SC-BC1600LSXX is available in 9 colors:
  - BK=Black, BL=Blue, OR=Orange, PUR=Purple, WT=White
  - GY=Gray, GN=Green, RD=Red, YL=Yellow
- Reelex II Tangle-Free Box
- Reinforced handles for improved performance
- Strong, Lightweight, Resilient
- Limited Lifetime Warranty
  *Details at www.simplybrands.com/warranties*

### Mechanical Properties

| | | |
|---|---|---|
| **Bend Radius** | Min Bend Radius (Installation)<br>Min Bend Radius (Operation) | 48mm<br>24mm |
| **Maximum Pulling Tension** | 85N | |
| **Insulation Tensile Strength** | Unaged / Elongation %<br>Aged / Elongation % | 13.8Mpa / 100%<br>9.8Mpa / 100% |
| **Jacket/Screen Tensile Strength** | Unaged / Elongation %<br>Aged / Elongation % | 13.8Mpa / 100%<br>11.7Mpa / 50% |
| **Cable Cold Bend (-20°C for 4 hrs)** | No Crack | |

### Environmental Parameters

| | |
|---|---|
| **Temperature Range - Operating** | -20°C to 75°C (-4°F to 167°F) |
| **Temperature Range - Installation** | 0°C to 40°C (32°F to 104°F) |
| **Temperature Range - Storage** | 0°C to 40°C (32°F to 104°F) |

### Environmental Compliance

RoHS Compliant: RoHS II/III, EU/UK RoHS
REACH, WEEE Directive, WFD:2023, SCIP:2023, POPs (EU) No 2019/1021
Reelex II – Made with recyclable materials

⚠ California Prop 65 Warning – California Residents Only
WARNING: This Product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information: www.P65Warnings.ca.gov

### Cable Jacket Markings

SIMPLYCABLE - STRUCTURED CABLE PRODUCTS --- SC-BC1600LS---- CAT6 LSZH STANDARD SERIES --- SWEPT TO 550MHz ANSI/TIA 568.2-E ISO/IEC 11801 CLASS E 23AWG SOL BC 4PR UTP EN50575:2014 CE Dca-s2,d2,a1 LSZH JKT EU RoHS ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 ***M POXXXX

*Above jacket markings are an example for reference purposes. All SimplyCable jacket markings include descending feet or meter markings and our industry leading zone and outlet legend for easy cable identification during installation.*

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## Electrical Characteristics

| | | | |
|---|---|---|---|
| **Maximum Bandwidth as Tested** | 550MHz | **Capacitance Unbalance pair-to-ground** | Max 3300pF/km |
| **Conductor Resistance (at 20°C)** | Max 93.8.ohm/km | **Characteristic Impedance** | 100 +/- 15 Ohm |
| **Dielectric Strength** | Min AC 1.5KV | **Nominal Velocity of Propagation % (NVP)** | 67-69% |
| **Spark Test** | 5.0KV | **Rated Voltage** | Insulated 300V |
| **AC Leakage Current thru Jacket/Screen** | 1.5KV 50Hz 1min / 2.5KV 2s | | Operating Low Voltage 80V |
| **Resistance Unbalance** | Max 5% | **Delay Skew** | Max 45ns / 100m |
| **Insulation Resistance** | ≥5000MΩ·km | **PoE Rating** | 802.3at Type 2 15W/30W |
| **Mutual Capacitance** | ≤56nF/km | **Transverse Conversion Loss (TCL)** | 1~250MHz ≥ 40.0-10x1g (f) |

## Standards Reference

**Manufactured in Accordance to:** ANSI/TIA 568.2-D, ISO/IEC 11801 Class E, ISO/IEC 61156-5, EN 50173-1, EN 50288-6-1, EN 50575

**EN50575 CPR EuroClass:** Dca-s2,d2,a1

**Reaction to Fire:** BS EN 13501-6; LSZH Rated

**Power Over Ethernet (PoE):** IEEE 802.3at Type 2 (15W/30W)

**Power Over HDBaseT (PoH):** Yes

**3rd Party Certification:** -

## Performance Data*

| Bandwidth MHz | Attenuation Max (dB/100m) | | NEXT Min (dB) | | PS NEXT Min (dB) | | ACR Min (dB) | | RL Min (dB) | | ELFEXT Min (dB) | | PS ELFEXT Min (dB) | | PSACR Min (dB) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Standard | SCP | Standard | SCP | Standard | SCP | Standard | SCP | Standard | SCP | Standard | SCP | Standard | SCP | Standard | SCP |
| 1 | 2 | 1.9 | 74.3 | 80.3 | 72.3 | 76.6 | 72.3 | 78.4 | 20 | 23.6 | 67.8 | 75.6 | 64.8 | 73.3 | 70.3 | 74.7 |
| 4 | 3.8 | 3.7 | 65.3 | 75.6 | 63.3 | 74.2 | 61.5 | 71.9 | 23 | 23.9 | 55.8 | 61.3 | 52.8 | 60.1 | 59.5 | 70.5 |
| 8 | 5.3 | 5.1 | 60.8 | 66 | 58.8 | 65.1 | 55.5 | 60.9 | 24.5 | 30 | 49.7 | 55.7 | 46.7 | 54.8 | 53.5 | 60 |
| 10 | 6 | 5.8 | 59.3 | 67.6 | 57.3 | 65.9 | 53.3 | 61.8 | 25 | 28.5 | 47.8 | 55.2 | 44.8 | 53.2 | 51.3 | 60.1 |
| 16 | 7.6 | 7.4 | 56.2 | 70.8 | 54.2 | 67.2 | 48.6 | 63.4 | 25 | 28.2 | 43.7 | 49.7 | 40.7 | 48.1 | 46.6 | 59.8 |
| 20 | 8.5 | 8.2 | 54.8 | 71.9 | 52.8 | 69.1 | 46.3 | 63.7 | 25 | 27.8 | 41.8 | 48.1 | 38.8 | 46.2 | 44.3 | 60.9 |
| 25 | 9.5 | 9.1 | 53.3 | 62.3 | 51.3 | 60.8 | 43.8 | 53.2 | 24.3 | 27.5 | 39.8 | 45.9 | 36.8 | 45 | 41.8 | 51.7 |
| 100 | 19.8 | 18.8 | 44.3 | 60 | 42.3 | 58 | 24.5 | 41.2 | 20.1 | 23.5 | 27.8 | 35 | 24.8 | 33.2 | 22.5 | 39.2 |
| 200 | 29 | 27.4 | 39.8 | 57.5 | 37.8 | 56 | 10.8 | 30.1 | 18 | 23.2 | 21.8 | 32.8 | 18.8 | 30.2 | 8.8 | 28.6 |
| 250 | 32.8 | 29.4 | 38.3 | 55.8 | 36.3 | 54.1 | 5.5 | 26.4 | 17.3 | 21.5 | 19.8 | 30.7 | 16.8 | 27.7 | 3.5 | 24.7 |
| 500 | 48.9 | 43.9 | 33.8 | 51 | 31.8 | 49.3 | - | - | 15.2 | 18.6 | 13.8 | 19.5 | 10.8 | 18.7 | - | - |
| 550 | 51.76 | 46.76 | 33.19 | 48.2 | 31.19 | 46.5 | - | - | 14.92 | 18.32 | 12.99 | 18.69 | 9.99 | 17.89 | - | - |

## Part Numbers

| Item No. | UPC | Jacket Color | Package Length | Package Type | Package Weigth (kg/lb) | Item Dimensions (mm) |
|---|---|---|---|---|---|---|
| **North America:** | | | | | | |
| Not available at this time | | | | | | |
| **EU (EMEA):** | | | | | | |
| SC-BC1600LSBL | 810093729852 | Black | 1000ft/305m | Reelex II Box | 28/12.7 | 410*280*390 |
| SC-BC1600LSBK | | Blue | 1000ft/305m | Reelex II Box | 28/12.7 | 410*280*390 |
| SC-BC1600LSGN | | Green | 1000ft/305m | Reelex II Box | 28/12.7 | 410*280*390 |
| SC-BC1600LSGY | | Gray | 1000ft/305m | Reelex II Box | 28/12.7 | 410*280*390 |
| SC-BC16000LSRD | | Orange | 1000ft/305m | Reelex II Box | 28/12.7 | 410*280*390 |
| SC-BC1600LSPUR | | Purple | 1000ft/305m | Reelex II Box | 28/12.7 | 410*280*390 |
| SC-BC1600LSRD | | Red | 1000ft/305m | Reelex II Box | 28/12.7 | 410*280*390 |
| SC-BC1600LSYL | | Yellow | 1000ft/305m | Reelex II Box | 28/12.7 | 410*280*390 |
| SC-BC1600LSWT | 810093729869 | White | 1000ft/305m | Reelex II Box | 28/12.7 | 410*280*390 |

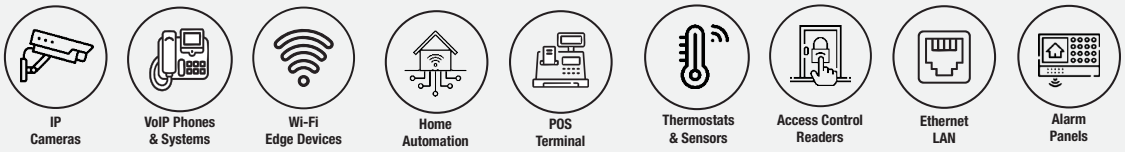
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## Applications

Supports all Category 6 and Class E applications including structured cabling for horizontal and building backbone, Ethernet 10/100/1000/10GBASE-T, indoor use, fixed installations, Power Over Ethernet (PoE), and other high bandwidth applications.




## Recommended Products


S45-1100


S45-1600


S45-1605


S45-3600B/W


S45-3690B/BL/W


S45-S02R


S45-C100


S45-P300


S45-P420


S45-2024U


S45-2624


S45-2648

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