

## SST Cat 6A U/UTP Euroclass B2ca Cables

### APPLICATION

Leviton SST Cat 6A U/UTP Cables exceed Cat 6A performance standards. They are rated to 500 MHz and are suitable for use in all Class E<sub>A</sub> structured cabling systems. SST cables support 10 Gigabit Ethernet, Gigabit Ethernet, Power over Ethernet (PoE), voice, and broadband video transmissions at frequencies up to 500 MHz. SST offers unmatched assurance of network performance with superior signal isolation, excellent high-PoE performance, and best-in-class alien crosstalk performance. The specially designed isolation wrap construction provides superior heat management and noise-cancelling performance.



### BENEFITS

- Small (6.9 mm) outer diameter
- Characterized to 550 MHz
- Exceeds PoE standards
- Assurance of network performance with superior signal isolation
- Guaranteed system margins when deployed with Leviton ATLAS-X1™ or EXTREME™ connectivity
- Designed and manufactured in Leviton's carbon neutral UK facility
- Living Building Challenge Red List free
- Reel packaging is 100% recyclable

### FEATURES

- 23 AWG solid annealed copper wire
- 4 unshielded twisted pairs cabled together
- Central separator for increased internal crosstalk performance
- Isolation wrap construction delivers superior heat management and noise-cancelling performance without the need for grounding
- HFFR-LS (Halogen Free Flame Retardant – Low Smoke) jacket enables the cable to meet the requirements of the Construction Products Regulation (CPR) Euroclass B2ca
- CE marked for CPR
- Supports 1 GbE with PoE up to 155 m when used in the ATLAS-X1™ SST MILLENNIUM™ System

### STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E<sub>A</sub> and IEC 61156-5
- EN50173-1 and EN 50288-11-1
- ANSI/TIA 568.2-D
- IEEE 802.3 PoE Type 1, 2, 3, 4 (100 watts max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)

### COUNTRY OF ORIGIN

UK

### WARRANTY INFORMATION

For Leviton product warranties, go to [Leviton.com/ns/warranty](https://leviton.com/ns/warranty)

**PRODUCT SPECIFICATIONS**  
**SST Cat 6A U/UTP Euroclass B2ca Cables**

**PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS**

| Freq. | RL (dB)  |         | NEXT (dB) |         | PS NEXT (dB) |         | IL (dB/100 m) |         |
|-------|----------|---------|-----------|---------|--------------|---------|---------------|---------|
|       | Standard | Typical | Standard  | Typical | Standard     | Typical | Standard      | Typical |
| 1     | 20.0     | 34.4    | 75.3      | 97.2    | 72.3         | 93.1    | 2.1           | 1.9     |
| 4     | 23.0     | 37.5    | 66.3      | 88.9    | 63.3         | 82.9    | 3.8           | 3.5     |
| 10    | 25.0     | 39.9    | 60.3      | 82.9    | 57.3         | 76.2    | 5.9           | 5.4     |
| 20    | 25.0     | 40.8    | 55.8      | 78.8    | 52.8         | 71.5    | 8.4           | 7.6     |
| 100   | 20.1     | 36.9    | 45.3      | 67.4    | 42.3         | 59.2    | 19.1          | 17.3    |
| 200   | 18.0     | 34.9    | 40.8      | 62.8    | 37.8         | 54.5    | 27.6          | 24.7    |
| 250   | 17.3     | 33.0    | 39.3      | 61.6    | 36.3         | 52.7    | 31.1          | 27.7    |
| 500   | 17.3     | 29.1    | 34.8      | 55.6    | 31.8         | 46.6    | 45.3          | 39.8    |
| 550   | —        | 29.6    | —         | 54.5    | —            | 45.4    | —             | 41.8    |

**PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED**

| Freq. | ACRF (dB) |         | PSACRF (dB) |         | PSA NEXT (dB) |         | PSAACRF (dB) |         |
|-------|-----------|---------|-------------|---------|---------------|---------|--------------|---------|
|       | Standard  | Typical | Standard    | Typical | Standard      | Typical | Standard     | Typical |
| 1     | 68.0      | 97.4    | 65.0        | 95.8    | 67.0          | 94.0    | 67.0         | 91.6    |
| 4     | 56.0      | 90.8    | 53.0        | 85.2    | 67.0          | 93.9    | 66.2         | 90.6    |
| 10    | 48.0      | 83.0    | 45.0        | 77.3    | 67.0          | 105.1   | 58.2         | 102.7   |
| 20    | 42.0      | 77.3    | 39.0        | 70.8    | 67.0          | 104.8   | 52.2         | 101.6   |
| 100   | 28.0      | 63.6    | 25.0        | 56.1    | 62.5          | 104.1   | 38.2         | 89.7    |
| 200   | 22.0      | 56.9    | 19.0        | 49.8    | 58.0          | 92.9    | 32.2         | 67.1    |
| 250   | 20.0      | 55.8    | 17.0        | 49.2    | 56.5          | 91.5    | 30.2         | 64.0    |
| 500   | 14.0      | 48.3    | 11.0        | 42.7    | 52.0          | 90.5    | 24.2         | 51.3    |
| 550   | —         | 47.1    | —           | 40.7    | —             | 85.1    | —            | 46.8    |

- The standard values shown are the most demanding taken from the relevant IEC, TIA and EN specifications. These standard values are the maximum permissible for Insertion loss and the minimum permissible for other parameters
- N/A – Not Applicable

## PRODUCT SPECIFICATIONS

### SST Cat 6A U/UTP Euroclass B2ca Cables

| CHARACTERISTICS                |                    |
|--------------------------------|--------------------|
| Installation Characteristics   |                    |
| Min Bend Radius (Installation) | 8 x Outer Diameter |
| Min Bend Radius (Operation)    | 4 x Outer Diameter |
| Field Test NVP Value           | 0.67               |
| Temp. (Storage)                | -20 °C to +75 °C   |
| Temp. (Installation)           | 0 °C to +50 °C     |
| Temp. (Operating)              | -20 °C to +75 °C   |
| Segregation Class              | Class C            |

| REACTION TO FIRE           |                |               |                  |
|----------------------------|----------------|---------------|------------------|
| Characteristic             | IEC Standard   | EN Standard   | CPR Rating       |
| Classification / Euroclass | —              | EN 13501-6    | B2ca-s1a, d1, a1 |
| Single Cable Flame Rating  | IEC 60332-1-2  | EN 60332-1-2  | Pass             |
| Bundled Cable Flame Rating | IEC 60332-3-22 | EN 60332-3-22 | —                |

| TECHNICAL SPECIFICATIONS              |                |                     |
|---------------------------------------|----------------|---------------------|
| Primary Electrical Properties (20 °C) |                |                     |
| CHARACTERISTIC                        | SPECIFICATION  | TYPICAL PERFORMANCE |
| Conductor Loop Resistance             | Max 19 Ω/100 m | 16 Ω/100 m          |
| Conductor Resistance Unbalance        | Max 2%         | 0.1%                |
| Insulation Resistance                 | >5GΩ.km        | >50GΩ.km            |
| Dielectric Strength                   | 2500 Vdc/2secs | Pass                |

| TECHNICAL SPECIFICATIONS                |                          |                        |
|---|--------------------------|------------------------|
| Secondary Electrical Properties (20 °C) |                          |                        |
| CHARACTERISTIC                          | SPECIFICATION            | TYPICAL PERFORMANCE    |
| Velocity of Propagation                 | <538nsec/100m @ 100 MHz  | 505nsec/100m @ 100 MHz |
| Delay Skew                              | Max 45nsec/100m @100 MHz | 25nsec/100m @ 100 MHz  |
| Characteristic Impedance (Fitted)       | 100Ω +/- 5Ω @ 100 MHz    | 100Ω ± 3Ω @ 100 MHz    |

| STANDARD PACKAGING SPECIFICATIONS – REELS |                      |          |                             |                              |                                    |                        |                  |
|---|----------------------|----------|-----------------------------|------------------------------|------------------------------------|------------------------|------------------|
| Part Number                               | Packaging Length (m) | Color    | Nominal Cable Diameter (mm) | Nominal Cable Weight (kg/km) | Reel Size Flange Dia. x Width (mm) | Gross Weight (kg/Item) | Items Per Pallet |
| SST-B2ca-500OR                            | 500                  | Orange † | 6.9                         | 48                           | 395 x 390                          | 26.5                   | 12               |
| SST-B2ca-305OR                            | 305                  | Orange † | 6.9                         | 48                           | 395 x 215                          | 16.2                   | 24               |

| STANDARD PACKAGING SPECIFICATIONS – BOXES |                      |          |                             |                              |                         |                        |                  |
|---|----------------------|----------|-----------------------------|------------------------------|-------------------------|------------------------|------------------|
| Part Number                               | Packaging Length (m) | Color    | Nominal Cable Diameter (mm) | Nominal Cable Weight (kg/km) | Box Size L x W x H (mm) | Gross Weight (kg/Item) | Items Per Pallet |
| SST-B2ca-B305OR                           | 305                  | Orange † | 6.9                         | 48                           | 475 x 295 x 472         | 16.5                   | 12               |

† Also available in a range of non-standard colors

For further support information, visit [Leviton.com/ns/support](http://Leviton.com/ns/support)

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**USA**  
 Network Solutions Headquarters  
 +1 (800) 722 2082  
[infoUSA@leviton.com](mailto:infoUSA@leviton.com)  
 Leviton Cable (formerly Berk-Tek)  
 +1 (800) 237 5835 | [infoUSA@leviton.com](mailto:infoUSA@leviton.com)

**Asia Pacific**  
 +852 3620 2602  
[infoAPAC@leviton.com](mailto:infoAPAC@leviton.com)

**Canada**  
 +1 (800) 461 2002  
[infoCanada@leviton.com](mailto:infoCanada@leviton.com)

**Europe**  
 +44 (0) 1592 772124  
[infoEurope@leviton.com](mailto:infoEurope@leviton.com)

**Latin America**  
 MX: +52 (55) 2128 6286  
 LATAM: +52 (55) 2333 5963  
[infoLATAM@leviton.com](mailto:infoLATAM@leviton.com)

**Middle East & Africa**  
 +971 (4) 247 9800  
[infoMEA@leviton.com](mailto:infoMEA@leviton.com)

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