

## 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, 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 and UKCA marked for CPR

### 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 802.3bt PoE Type 1, 2, 3, 4 (90 watts max)
- Exceeds IEEE 802.3bt standard up to 0.5 amps per conductor (100 watts) continuously
- 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](http://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
Temperature (Installation)	0 °C to +50 °C
Temperature (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)