

SST Cat 6A UTP Outdoor Cable

APPLICATION

Leviton SST is the highest-performing Cat 6A UTP cable, and the best choice for high-bandwidth mission-critical applications such as Wi-Fi 6/7 access points, medical imaging technologies, financial/trading platforms, and ultra-high-definition 4K video. SST offers unmatched assurance of network performance with superior signal isolation and excellent high Power over Ethernet (PoE) performance. A specially designed isolation wrap provides superior heat management and noise-canceling performance.



COUNTRY OF ORIGIN

UK

WARRANTY INFORMATION

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

FEATURES & BENEFITS

- Small 6.99 mm (0.275") diameter for high-density installations
- UV and moisture resistant
- 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
- Central separator for increased internal crosstalk performance
- Isolation wrap construction delivers superior heat management and noise-cancelling performance without the need for grounding
- Supports 1 GbE with PoE up to 155 m when used in the ATLAS-X1™ SST MILLENNIUM™ System

STANDARDS & REGULATIONS

- ANSI/TIA 568.2
- ISO/IEC 11801 Class E_A and IEC 61156-5
- EN 50173-1 and EN 50288-11-1
- 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)
- RoHS Compliant

PRODUCT SPECIFICATIONS

SST Cat 6A UTP Outdoor Cable

CHARACTERISTICS	
Usage Characteristics	
Category	Cat 6A
Segregation Class	Class C
Fire Rating	Outdoor Rated
Temperature (Storage):	-20 °C to +60 °C (-4 °F to +140 °F)
Temperature (Installation):	+5 °C to +50 °C (+41 °F to +122 °F)
Temperature (Operating):	-20 °C to +60 °C (-4 °F to +140 °F)

TECHNICAL SPECIFICATIONS	
Electrical properties (20 °C ± 5 °C)	
DC resistance	Max. 9.38 Ω/100 m at 20 °C
DC resistance unbalance	Max. 5%
Mutual capacitance	Nom. 5.1 nf/100 m at 1 kHz
Capacitance unbalance (pair to ground)	Max. 330 pf/100 m at 1 kHz
Delay Skew	45 ns/100 m max.
Nominal velocity of propagation	67%

HIGH SPEED DATA AND POWER APPLICATIONS	
IEEE 802.3	10GBASE-T (10 Gb/s), 2.5/5GBASE-T (2.5/5 Gb/s), 1000BASE-T (1 Gb/s), 100BASE-TX (100 Mb/s), 10BASE-T (10 Mb/s)
IEEE 802.3	PoE Types 1, 2, 3, and 4

TECHNICAL DATA - PHYSICAL		
Conductor	23 AWG Bare Copper	
Nom. Cable Diameter - in. (mm)	0.275	(6.99)
Nom. Cable Weight - lb./kft (kg/km)	34	(50.6)
Max. Installation Tension - lb. (N)	25	(110)
Min. Bend Radius - in. (mm)	1.10	(27.94)

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PRODUCT SPECIFICATIONS

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PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq. MHz	RL (dB)		NEXT (dB)		PSNEXT (dB)		IL (dB)	
	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

Note: The standard values shown are the most demanding requirements taken from the relevant IEC, TIA, and EN specifications. These standard values are the minimum permissible for Insertion loss and the maximum permissible for other parameters. Values above 500 MHz are for information only.

PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq. MHz	ACRF (dB)		PS ACRF (dB)		PS ANEXT (dB)		PS AACRF (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

Note: The standard values shown are the most demanding requirements taken from the relevant IEC, TIA, and EN specifications. These standard values are the minimum permissible for Insertion loss and the maximum permissible for other parameters. Values above 500 MHz are for information only.

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-X-500BK	500	Black	6.99	42.7	395 x 390	23.8	12
SST-X-1000BK	1000	Black	6.99	42.7	600 x 405	49.2	8

For further support information, visit Leviton.com/ns/support

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