

SST Cat 6A UTP Riser 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 5/6/7 access points, medical imaging technology, financial/trading platforms, and ultra-high-definition 4K video. SST offers unmatched assurance of network performance with superior signal isolation and excellent high-PoE performance. A specially designed isolation wrap provides superior heat management and noise-canceling performance.



COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

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

FEATURES & BENEFITS

- Unmatched assurance of network performance with best in class 10 dB Alien Crosstalk (AXT) margin and 4 dB ACRF and PSACRF margins
- Capable of supporting network operation in adverse real-world conditions
- Worry-free PoE performance with LP (0.5A) rating that can support 100 W PoE with bundles of up to 480 cables
- Performance beyond standard are independently verified by ETL in the Leviton Verified Performance program
- Premier Cat 6A performance margins with Leviton's ATLAS-X1™ connectivity
- Supports 1G with PoE up to 155 m when used in the ATLAS-X1™ SST MILLENNIUM™ System
- Packaging is 100% recyclable

STANDARDS & REGULATIONS

- ANSI/TIA 568.2-D
- CSA C22.2 N° 214-02
- 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)
- UL 444
- RoHS Compliant

FIRE RATING

- Riser - NFPA 70
- CMR - Riser Rated
- UL Listed as CMR-LP (0.5A)

PRODUCT SPECIFICATIONS
SST Cat 6A UTP Riser Cable

TECHNICAL SPECIFICATIONS

Electrical properties 20 °C ± 5 °C [68 °F ± 9 °F]

DC resistance	Max. 9.38 Ω/100 m
DC resistance unbalance	Max. 4%
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%

MECHANICAL SPECIFICATIONS

Dimensional Characteristics

Length per reel	1000 ft (305 m)
Number of pairs	4

Usage Characteristics

Category	Cat 6A
Type of cable	UTP
Temp. (Storage):	-20 °C to +60 °C (-4 °F to +140 °F)
Temp. (Installation):	+5 °C to +50 °C (+41 °F to +122 °F)
Temp. (Operating):	-20 °C to +60 °C (-4 °F to +140 °F)
Listed cable temp.	+75 °C (+167 °F)

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	
Conductor Diameter - in. (mm)	0.022	(0.56)
Insulated Conductor Diameter - in. (mm)	0.047	(1.19)
Nom. Cable Diameter - in. (mm)	0.275	(6.99)
Nom. Cable Weight - lb./kft (kg/km)	34	(51.0)
Max. Installation Tension - lb. (N)	25	(110)
Min. Bend Radius - in. (mm)	1.2	(31)

COLOR CODE

Pair-1	White	Blue
Pair-2	White	Orange
Pair-3	White	Green
Pair-4	White	Brown

PRODUCT SPECIFICATIONS
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GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq. MHz	RL (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)*		PSACR (dB)*	
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee
1	20.0	20.0	74.3	74.3	72.3	72.3	72.2	72.2	70.2	70.2
4	23.0	23.0	65.3	65.3	63.3	63.3	61.5	61.5	59.5	59.5
10	25.0	25.0	59.3	59.3	57.3	57.3	53.4	53.4	51.4	51.4
16	25.0	25.0	56.2	56.2	54.2	54.3	48.8	48.8	46.8	46.8
20	25.0	25.0	54.8	54.8	52.8	52.8	46.4	46.4	44.4	44.4
31.25	23.6	23.6	51.9	51.9	49.9	49.9	41.4	41.4	39.4	39.4
62.5	21.5	21.5	47.4	47.4	45.4	45.4	32.4	32.4	30.4	30.4
100	20.1	20.1	44.3	44.3	42.3	42.3	25.2	25.2	23.2	23.2
250	17.3	17.3	38.3	38.3	36.3	36.3	7.3	7.3	5.3	5.3
350	16.3	16.3	36.1	36.1	34.1	34.1	-1.1	-1.1	-3.1	-3.1
400	15.9	15.9	35.3	35.3	33.3	33.3	-4.8	-4.8	-6.8	-6.8
500	15.2	15.2	33.8	33.8	31.8	31.8	-11.4	-11.4	-13.4	-13.4
600**	—	14.7	—	32.6	—	30.6	—	-17.4	—	-19.4
750**	—	14.0	—	31.2	—	29.2	—	-25.5	—	-27.4

*Values for ACR and PSACR are provided as calculations. PSACR is guaranteed to 300 MHz. **SST is guaranteed between 1 MHz and 500 MHz. Values above 500 MHz are for reference only.

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq. MHz	IL (dB)		ACRF (dB)		PSACRF (dB)		LCL/TCL (dB)	ELTCTL (dB)	PSANEXT (dB)		PSAACRF (dB)	
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	Product Guarantee	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee
1	2.1	2.1	67.8	71.8	64.8	68.8	50.0	35.0	67.0	77.0	67.0	77.0
4	3.8	3.8	55.8	59.8	52.8	56.8	44.0	23.0	67.0	77.0	66.2	76.2
10	5.9	5.9	47.8	51.8	44.8	48.8	40.0	15.0	67.0	77.0	58.2	68.2
16	7.5	7.5	43.7	47.7	40.7	44.7	38.0	10.9	67.0	77.0	54.1	64.1
20	8.4	8.4	41.8	45.8	38.8	42.8	37.0	9.0	67.0	77.0	52.2	62.2
31.25	10.5	10.5	37.9	41.9	34.9	38.9	35.1	—	67.0	77.0	48.3	58.3
62.5	15.0	15.0	31.9	35.9	28.9	32.9	32.0	—	65.6	75.6	42.3	52.3
100	19.1	19.1	27.8	31.8	24.8	28.8	30.0	—	62.5	72.5	38.2	48.2
250	31.1	31.1	19.8	23.8	16.8	20.8	26.0	—	56.5	66.5	30.2	40.2
350	37.2	37.2	16.9	20.9	13.9	17.9	24.6	—	54.3	64.3	27.3	37.3
400	40.1	40.1	15.8	19.8	12.8	16.8	24.0	—	53.5	63.5	26.2	36.2
500	45.3	45.3	13.8	17.8	10.8	14.8	23.0	—	52.0	62.0	24.2	34.2
600**	—	50.1	—	16.2	—	13.2	22.2	—	—	60.8	—	32.6
750**	—	56.7	—	14.3	—	11.3	21.2	—	—	59.4	—	30.7

**SST is guaranteed between 1 MHz and 500 MHz. Values above 500 MHz are for reference only.

PRODUCT SPECIFICATIONS
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PART NUMBERS				
Description	Color	Packaging	Field Application	Part No.
SST UTP Riser Category 6A	Blue	Reel	Indoor	11104157
SST UTP Riser Category 6A	Orange	Reel	Indoor	11140416
SST UTP Riser Category 6A	Yellow	Reel	Indoor	11140411
SST UTP Riser Category 6A	Red	Reel	Indoor	11140413
SST UTP Riser Category 6A	Dark gray	Reel	Indoor	11140410
SST UTP Riser Category 6A	Green	Reel	Indoor	11140412
SST UTP Riser Category 6A	Black	Reel	Indoor	11140414
SST UTP Riser Category 6A	Violet	Reel	Indoor	11140415
SST UTP Riser Category 6A	White	Reel	Indoor	11140409
SST UTP Riser Category 6A	Blue	Reel in a box	Indoor	11140639
SST UTP Riser Category 6A	Orange	Reel in a box	Indoor	11140647
SST UTP Riser Category 6A	Yellow	Reel in a box	Indoor	11140642
SST UTP Riser Category 6A	Red	Reel in a box	Indoor	11140644
SST UTP Riser Category 6A	Dark gray	Reel in a box	Indoor	11140641
SST UTP Riser Category 6A	Green	Reel in a box	Indoor	11140643
SST UTP Riser Category 6A	Black	Reel in a box	Indoor	11140645
SST UTP Riser Category 6A	Violet	Reel in a box	Indoor	11140646
SST UTP Riser Category 6A	White	Reel in a box	Indoor	11140640

PRINT LEGEND:

LEVITON SST UTP 23 AWG CMR 75C (ETL)US CMR-LP (0.5A) ETL VERIFIED TIA-568.2-D CAT 6A [DATE] [COUNTER] [UID]

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