

SST Cat 6A UTP Plenum 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 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, preventing electrical energy from transferring between cables while eliminating the need for grounding.



BENEFITS

- Unmatched assurance of network performance
- Capable of supporting network operation in adverse real-world conditions
- High-density bundles guaranteed to support 10 Gigabit Ethernet applications
- Worry-free PoE performance and virtually unlimited bundle size and tray fill

FEATURES

- Small 0.25" (6.35 mm) diameter
- 10 dB of Alien Crosstalk margin (best in class)
- 4 dB Far End Attenuation to Crosstalk Ratio (ACRF) and Power Sum ACR (PSACRF) Margins (key indicator of internal noise immunity and the signal to noise ratio)
- Listing temperature up to 105 °C
- Made with Leviton's advanced FLX-1™ technology for maximum flexibility, tighter bend radius and smoother pulls
- 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
- Max cable bundle size for PoE (100 W) is 720 cables

STANDARDS & REGULATIONS

- ANSI/TIA 568.2-D
- CSA C22.2 N° 214-02
- IEEE 802.3bt PoE Type 1 (15.4 watts, formerly 802.3af), Type 2 (30 watts, formerly 802.3at), Type 3 (60 watts), Type 4 (90 watts)
- Cisco UPOE (60 watts), UPOE+ (90 watts), Power over HDBaseT™ PoH (95 watts)
- UL 444
- RoHS Compliant

FIRE RATING

- Plenum - NFPA 70
- CMP - Plenum Rated
- ETL Listed as CMP-LP (0.7A)

COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

For Leviton product warranties, go to leviton.com/ns/warranty

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TECHNICAL SPECIFICATIONS	
Mechanical Properties	
Min. bending radius	1.0 inches (25.4 mm)
Max. installation tension	25 lb. (110 N)
Nominal cable weight	33 lb./kft (49 kg/km)
Usage Characteristics	
Field of application	Indoor
Category	Cat. 6A
Recommended installation temp. range	+5 °C to +50 °C
Recommended operating temp. range	-20 °C to +60 °C
Listed cable temp.	+105 °C
Electrical Properties (-20 °C ± 5 °C)	
DC resistance	Max. 9.38 Ω/100 m max.
DC resistance unbalance	Max. 5% at +20 °C
Mutual capacitance	Nom. 5.1 nf/100 m at 1 kHz
Pair-to-ground unbalance	330 pf/100 m max.
Nominal velocity of propagation	70%
Delay skew	45 ns/100 m

CHARACTERISTICS		
Physical Properties		
Length per reel	1000 feet	
Conductor	Bare copper wire	23 AWG
Conductor diameter	0.025 inches (0.064 mm)	
Insulation	Metallic isolation wrap	Ø 0.042 inches (1.07 mm)
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: White/Blue 2: White/Orange 3: White/Green 4: White/Brown	
Number of pairs	4 pairs	
Type of cable	UTP	
Outer diameter	0.25 inches (6.35 mm) OD	

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GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS											
Freq. MHz	RL (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB/100 m)*		PSACR (dB/100 m)*		
	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	75.3	
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	47.3	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	34.2	-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	—	—	—	—	
750**	—	14.0	—	31.2	—	29.2	—	—	—	—	

*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/100 m)		ACRF (dB/100 m)		PSACRF (dB/100 m)		PSANEXT (dB)		PSAACRF (dB)		LCL/TCL (dB)	EL TCTL (dB)	
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	Product Guarantee	Product Guarantee	
1	2.1	2.1	67.8	71.8	64.8	68.8	67.0	77.0	67.0	77.0	50.0	35.0	
4	3.8	3.8	55.8	59.8	52.8	56.8	67.0	77.0	66.2	76.2	44.0	23.0	
10	5.9	5.9	47.8	51.8	44.8	48.8	67.0	77.0	58.2	68.2	40.0	15.0	
16	7.5	7.5	43.7	47.7	40.7	44.7	67.0	77.0	54.1	64.1	38.0	10.9	
20	8.4	8.4	41.8	45.8	38.8	42.8	67.0	77.0	52.2	62.2	37.0	9.0	
31.25	10.5	10.5	37.9	41.9	34.9	38.9	67.0	77.0	48.3	58.3	35.1	—	
62.5	15.0	15.0	31.9	35.9	28.9	32.9	65.6	75.6	42.3	52.3	32.0	—	
100	19.1	19.1	27.8	31.8	24.8	28.8	62.5	72.5	38.2	48.2	30.0	—	
250	31.1	31.1	19.8	23.8	16.8	20.8	56.5	66.5	30.2	40.2	26.0	—	
350	37.2	37.2	16.9	20.9	13.9	17.9	54.3	64.5	27.3	37.3	24.6	—	
400	40.1	40.1	15.8	19.8	12.8	16.8	53.5	63.5	26.2	36.2	24.0	—	
500	45.3	45.3	13.8	17.8	10.8	14.8	52.0	62.0	24.2	34.2	23.0	—	
600**	—	50.1	—	16.2	—	13.2	—	60.8	—	32.6	22.2	—	
750**	—	56.7	—	14.3	—	11.3	—	59.4	—	30.7	21.2	—	

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PRODUCT SPECIFICATIONS
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PART NUMBERS				
Description	Color	Packaging	Field Application	Part No.
SST UTP Plenum Category 6A	Blue	Reel	Indoor	11101842
SST UTP Plenum Category 6A	White	Reel	Indoor	11140401
SST UTP Plenum Category 6A	Dark gray	Reel	Indoor	11140402
SST UTP Plenum Category 6A	Yellow	Reel	Indoor	11140403
SST UTP Plenum Category 6A	Green	Reel	Indoor	11140404
SST UTP Plenum Category 6A	Black	Reel	Indoor	11140406
SST UTP Plenum Category 6A	Violet	Reel	Indoor	11140407
SST UTP Plenum Category 6A	Orange	Reel	Indoor	11140408
SST UTP Plenum Category 6A	Red	Reel	Indoor	11140405
SST UTP Plenum Category 6A	Blue	Reel in a box	Indoor	11140627
SST UTP Plenum Category 6A	White	Reel in a box	Indoor	11140628
SST UTP Plenum Category 6A	Dark gray	Reel in a box	Indoor	11140629
SST UTP Plenum Category 6A	Yellow	Reel in a box	Indoor	11140630
SST UTP Plenum Category 6A	Green	Reel in a box	Indoor	11140631
SST UTP Plenum Category 6A	Black	Reel in a box	Indoor	11140633
SST UTP Plenum Category 6A	Violet	Reel in a box	Indoor	11140634
SST UTP Plenum Category 6A	Orange	Reel in a box	Indoor	11140635
SST UTP Plenum Category 6A	Red	Reel in a box	Indoor	11140632

PRINT LEGEND:

LEVITON SST UTP 23 AWG CMP 105C C(ETL)US CMP-LP (0.7A) ETL VERIFIED TIA-568.2-D CAT 6A [DATE] [COUNTER] [UID]

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