

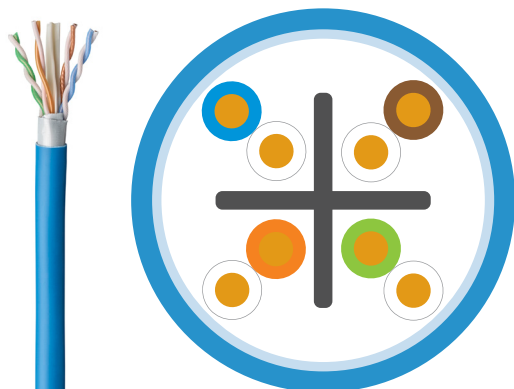
## PRODUCT SPECIFICATIONS

### BERK-TEK™ SST Cat 6A UTP Plenum Cable

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### APPLICATION

Leviton's BERK-TEK 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 Power over Ethernet (PoE) performance. A specially designed isolation wrap provides superior heat management and noise-canceling performance, preventing electrical energy from transferring between cables.



### COUNTRY OF ORIGIN

USA

### WARRANTY INFORMATION

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

### FEATURES & BENEFITS

- Small 0.255" (6.48 mm) diameter enables High-density bundles guaranteed to support 10 Gigabit Ethernet applications
- Best in class 10 dB alien crosstalk (ATX) margin and 4 dB ACRF and PSACRF margin above standard are independently verified as part of the Leviton Verified Performance Program
- Made with Leviton's advanced FLX-1 technology for maximum flexibility, tighter bend radius and smoother pulls
- Isolation wrap protects data from outside interference and dissipates heat for worry-free PoE performance
- Premier Cat 6A performance margins with Leviton's ATLAS-X1™ connectivity
- Supports 1 GbE with PoE Type 1 up to 155 m (508 feet) when used in the ATLAS-X1 SST MILLENNIUM™ System  
*\* Extended distances for Plenum (CMP) cables only apply to SST CMP cables packaged in TEKPAK™ boxes*
- Max cable bundle size for PoE (100 W) is 720 cables
- Includes innovative Patented Profile Technology
- 100% recyclable packaging for a more sustainable future

### STANDARDS & REGULATIONS

- ANSI/TIA 568.2
- 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

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

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**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.	+105 °C (+221 °F)

**TECHNICAL SPECIFICATIONS**

**Electrical properties (20 °C ± 5 °C)**

DC resistance	Max. 9.38 Ω/100 m
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	70%

**HIGH SPEED DATA AND POWER APPLICATIONS**

IEEE 802.3	2.5/5GBASE-T (2.5/5 Gb/s), 10GBASE-T (10 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	
Max conductor diameter - in. (mm)	0.022	(0.56)
Max insulated conductor diameter - in. (mm)	0.044	(1.1)
Nom. cable diameter - in. (mm)	0.255	(6.48)
Nom. cable weight - lb./kft (kg/km)	33	(49)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1.00	(25.4)

**COLOR CODE**

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

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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	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	54.2	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	—	-27.5

\*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)	EL TCTL (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	64.5	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.

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**BERK-TEK™ SST Cat 6A UTP Plenum Cable**

**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	TEKPAK™	Indoor	11142452
SST UTP Plenum Category 6A	White	TEKPAK	Indoor	11142630
SST UTP Plenum Category 6A	Dark gray	TEKPAK	Indoor	11142631
SST UTP Plenum Category 6A	Yellow	TEKPAK	Indoor	11144809
SST UTP Plenum Category 6A	Green	TEKPAK	Indoor	11144810
SST UTP Plenum Category 6A	Pink	TEKPAK	Indoor	11144811
SST UTP Plenum Category 6A	Red	TEKPAK	Indoor	11144813
SST UTP Plenum Category 6A	Black	TEKPAK	Indoor	11144814
SST UTP Plenum Category 6A	Violet	TEKPAK	Indoor	11144815
SST UTP Plenum Category 6A	Orange	TEKPAK	Indoor	11144816
SST UTP Plenum Category 6A	Brown	TEKPAK	Indoor	11144817
SST UTP Plenum Category 6A	Light gray	TEKPAK	Indoor	11144818

Note: For other colors or packaging, contact Customer Service at (800) 722-2082

**PRINT LEGEND:**

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

BERK-TEK SST Cat 6A UTP Plenum Cable

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

**USA**  
 Network Solutions Headquarters  
 +1 (800) 722 2082  
 infoUSA@leviton.com  
 BERK-TEK™ Cable  
 +1 (800) 237 5835 | infoUSA@leviton.com

**Asia Pacific**  
 +852 3620 2602  
 infoAPAC@leviton.com

**Canada**  
 +1 (800) 461 2002  
 infoCanada@leviton.com

**Europe**  
 +44 (0) 1592 772124  
 infoEurope@leviton.com

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

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

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