

Leviton Cat 6A UTP Riser Cable

APPLICATION

Leviton Cat 6A UTP Riser Cable features Noise-Canceling Helix Technology that delivers additional alien crosstalk (AXT) performance while the small cable outside diameter (0.275") increases pathway capacity and improves airflow to critical active equipment. Leviton Cat 6A UTP Riser is capable of transmitting 10GBASE-T network applications with performance that is verified to ANSI/TIA-568.2-D Cat 6A.



SPECIFICATION

The Cat 6A UTP cable shall have a nominal diameter of 0.275". The cable shall be constructed of 23 AWG copper conductors. The cable shall incorporate discontinuous metallic elements, and shall exhibit alien crosstalk performance that meets TIA standards. The system shall be classified as Cat 6A UTP construction. The cable shall meet riser NFPA-70 CMR flame rating. The cable shall meet ANSI/TIA-568.2-D Cat 6A performance requirements.

FEATURES

- Patented Leviton Noise-Canceling Helix Technology design provides alien crosstalk suppression
- Smaller, lighter, more flexible cable saves time during installation and reduces labor costs
- Small cable outside diameter (0.275") increases pathway capacity and improves airflow to critical active equipment
- Noise-Canceling Helix Technology wrap eliminates the need for grounding and bonding
- Independently tested and verified to meet ANSI/TIA-568.2-D Cat 6A

DESIGN CONSIDERATIONS

- Use with Leviton QuickPort® Cat 6A UTP connectors, Cat 6A patch panels, and Cat 6A patch cords to support 10 Gigabit Ethernet performance
- Minimum bend radius = 4X cable outside diameter
- Available in three colors (blue, white and green)
- Sold on 100% recyclable wooden reels

STANDARDS & REGULATIONS

- ANSI/TIA-568.2-D Cat 6A
- RoHS 2 Compliant
- 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)

FIRE RATING

- CMR
- NFPA-70

COUNTRY OF ORIGIN

Taiwan

WARRANTY INFORMATION

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

PRODUCT SPECIFICATIONS

Leviton Cat 6A UTP Riser Cable

CONSTRUCTION

Conductor	Bare copper wire	23 AWG
Insulation	Polyethylene	Ø 0.047 inches
Twisting	4 twisted pairs, 2 single conductors paired Twisted pair color code: 1: White/Blue 2: Orange+White/Orange 3: White/Green 4: Brown+White/Brown	
Cable lay-up	4 pairs with different pitches	
Outer jacket	CMR	
Outer diameter	0.275" OD	

TECHNICAL SPECIFICATIONS

Mechanical Properties

Bending Radius	≥ 4 x OD without load
Temperature range	During operation: -20°C ~ 60°C During installation: 0°C ~ 50°C Listed jacket temperature: 75°C

Electrical Properties (-20°C ± 5°C)

DC resistance	Max. 8.2 Ω/100 m at 20°C
Resistance unbalance	Max. 2% at 20°C
Insulation resistance (500 V)	Min. 5000 MΩ/Km at 20°C
Mutual capacitance	Nom. 5.1 nf/100 m at 1 kHz
Capacitance unbalance (pair to ground)	Max. 160 pf/100 m at 1 kHz
Characteristic impedance (1 - 100 MHz)	(100 ± 15) Ω
Nominal velocity of propagation	66%
Test voltage (DC, 1 min.)	1 kV/1 min.
Delay Skew	45 ns/100 m

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TRANSMISSION CHARACTERISTICS ACC. TO ANSI/TIA-568.2-D CAT 6A (AT 20°C)									
Freq. (MHz)	NEXT (dB) min.	PS-NEXT (dB) min.	ACRF (dB) min.	PS-ACRF (dB) min.	PS-ANEXT (dB) min.	PS-AACRF (dB) min.	RL (dB) min.	IL (dB/100 m) min.	Propagation Delay (ns/100 m) max.
1	74.3	72.3	67.8	64.8	67.0	67.0	20.0	2.1	570
4	65.3	63.3	55.8	52.8	67.0	66.2	23.0	3.8	552
8	60.8	58.8	49.7	46.7	67.0	60.1	24.5	5.3	547
10	59.3	57.3	47.8	44.8	67.0	58.2	25.0	5.9	545
16	56.2	54.2	43.7	40.7	67.0	54.1	25.0	7.5	543
20	54.8	52.8	41.8	38.8	67.0	52.2	25.0	8.4	542
25	53.3	51.3	39.8	36.8	67.0	50.2	24.3	9.4	541
31.25	51.9	49.9	37.9	34.9	67.0	48.3	23.6	10.5	540
62.5	47.4	45.4	31.9	28.9	65.6	42.3	21.5	15.0	539
100	44.3	42.3	27.8	24.8	62.5	38.2	20.1	19.1	538
200	39.8	37.8	21.8	18.8	58.0	32.2	18.0	27.6	537
250	38.3	36.3	19.8	16.8	56.5	30.2	17.3	31.1	536
300	37.1	35.1	18.3	15.3	55.3	28.7	16.8	34.3	536
400	35.3	33.3	15.8	12.8	53.5	26.2	15.9	40.1	536
500	33.8	31.8	13.8	10.8	52.0	24.2	15.2	45.3	536

LEVITON CAT 6A UTP RISER CABLE	
Description	Part No.
Cat 6A, CMR, UTP Cable, blue, 1,000 FT Reel	11142199
Cat 6A, CMR, UTP Cable, white, 1,000 FT Reel	11142203
Cat 6A, CMR, UTP Cable, green, 1,000 FT Reel	11142204

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

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