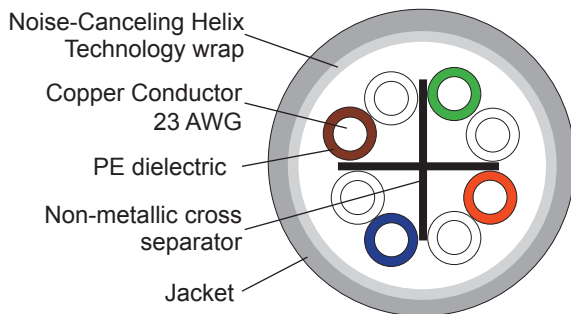


## Atlas-X1™ Cat 6A UTP Cable, CMP

### APPLICATION

Atlas-X1 Cat 6A UTP cable with Noise-Canceling Helix Technology is ideal for use in data centers, education, health care, and government facilities where increased security and superior performance is critical. The patented Leviton design provides superior alien crosstalk suppression while the small cable outside diameter (6.98 mm) increases pathway capacity and improves airflow to critical active equipment. In addition, the Noise-Canceling Helix Technology wrap prevents a current from being carried throughout the cable, so grounding and bonding is not required.



### SPECIFICATION

The Cat 6A UTP cable shall have a nominal diameter of 6.98 mm. The cable shall be constructed of 23-gauge copper conductors. The cable shall incorporate discontinuous metallic elements, and shall exhibit alien crosstalk performance that exceeds TIA and ISO standards. The system shall be classified as Cat 6A UTP construction. The Cat 6A system shall be third-party verified to support a 30-foot channel (10-foot permanent link). The cable shall meet plenum NFPA-70 CMP flame rating. The cable shall meet ANSI/TIA 568.2-D Cat 6A and ISO/IEC 11801-1 Class E<sub>A</sub> performance requirements.

### FEATURES

- Patented Leviton Noise-Canceling Helix Technology design provides superior alien crosstalk suppression
- Smaller, lighter, more flexible cable saves time during installation and reduces labor costs
- Small cable outside diameter (6.98 mm) increases pathway capacity and improves airflow to critical active equipment
- Noise-Canceling Helix Technology wrap eliminates the need for grounding and bonding
- Third-party verified to support short channels (9.14 meters)
- Independently tested and verified to meet ANSI/TIA Cat 6A and ISO Class E<sub>A</sub> performance

### DESIGN CONSIDERATIONS

- Use with Leviton Cat 6A UTP QuickPort™ 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 two colors (blue and white)

### STANDARDS COMPLIANCE

- ANSI/TIA-568.2-D Cat 6A
- ISO/IEC 11801-1 Class E<sub>A</sub>
- EN 50173-1 Class E<sub>A</sub>
- IEC 61156-5
- 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

CMP/FT6  
NFPA-70

### COUNTRY OF ORIGIN

USA

### WARRANTY INFORMATION

For a copy of Leviton product warranties, visit [www.leviton.com/warranty](http://www.leviton.com/warranty).

**TECHNICAL SPECIFICATIONS**

<b>Mechanical Properties</b>	
Bending Radius	≥ 4 x OD without load
Temperature range	during operation: -20° C ~ 75° C during installation: 0° C ~ 50° C
<b>Electrical Properties (-20° C ± 5° C)</b>	
DC resistance	Max. 9.38 Ω/100 m at 20° C
Resistance unbalance	Max. 2% at 20° C
Insulation resistance (500V)	Min. 5000 MΩ/Km at 20° C
Mutual capacitance	Nom. 5.1 nf/100 m at 1kHz
Capacitance unbalance (pair to ground)	Max. 330 pf/100 m at 1kHz
Nominal velocity of propagation	67%
Test voltage (DC, 1 min.)	1 kV/1 min.

**Construction**

Conductor	Bare copper wire	23 AWG
Insulation	FEP (Fluoropolymer)	Ø 1.04 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	
Cable lay-up	4 pairs with different pitches	
Outer jacket	CMP/FT6	
Outer diameter	Ø 6.98 mm (0.275")	

**PART NUMBERS**

<b>Description</b>	<b>Part No.</b>
Atlas-X1™ Cat 6A UTP Cable, CMP, blue, 305-meter spool	110-DUTAP-MLS
Atlas-X1 Cat 6A UTP Cable, CMP, white, 305-meter spool	112-DUTAP-MWS

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**Transmission characteristics acc. to ANSI/TIA-568.2-D Cat 6A (at 20° C)**

Freq.	Return Loss (dB)		NEXT (dB)		PS-NEXT (dB)		ACRF(dB)		PS-ANEXT (dB)		LCL/TCL
	TIA Spec	Typical	TIA Spec	Typical	TIA Spec	Typical	TIA Spec	Typical	TIA Spec	Typical	
1	20.0	20.0	74.3	75.3	72.3	72.3	67.8	71.8	67.0	67.0	50.0
4	23.0	23.0	65.3	66.3	63.3	63.3	55.8	59.8	67.0	67.0	44.0
10	25.0	25.0	59.3	60.3	57.3	57.3	47.8	51.8	67.0	67.0	40.0
16	25.0	25.0	56.2	57.3	54.2	54.3	43.7	47.7	67.0	67.0	38.0
20	25.0	25.0	54.8	55.8	52.8	52.8	41.8	45.8	67.0	67.0	37.0
31.25	23.6	23.6	51.9	52.9	49.9	49.9	37.9	41.9	67.0	67.0	35.1
62.5	21.5	21.5	47.4	48.4	45.4	45.4	31.9	35.9	65.6	67.0	32.0
100	20.1	20.1	44.3	45.3	42.3	42.3	27.8	31.8	62.5	66.5	30.0
250	17.3	17.3	38.3	39.3	36.3	36.3	19.8	23.8	56.5	60.5	26.0
350	16.3	16.3	36.1	37.2	34.1	34.2	16.9	20.9	-	58.3	24.6
400	15.9	15.9	35.3	36.3	33.3	33.3	15.8	19.8	53.5	57.5	23.4
500	15.2	15.2	33.8	34.8	31.8	31.8	13.8	17.8	52.0	56.0	23.0
600	-	14.7*	-	33.6*	-	30.6*	-	16.2*	-	54.8*	22.2*
750	-	14.0*	-	32.2*	-	29.2*	-	14.3*	-	53.4*	21.2*

**Transmission characteristics, continued**

Freq.	IL (dB/100 m)		ACR (dB/100 m)		PS-ACR (dB/100 m)		PS-ACRF (dB/100 m)		PS-AACRF (dB)		EL TCTL
	TIA Spec	Typical	TIA Spec	Typical	TIA Spec	Typical	TIA Spec	Typical	TIA Spec	Typical	
1	2.1	2.1	72.2	73.2	70.2	70.2	64.8	64.8	67.0	67.0	35.0
4	3.8	3.8	61.5	62.5	59.5	59.5	52.8	52.7	66.2	67.0	23.0
10	5.9	5.9	53.4	54.4	51.4	51.4	44.8	44.8	58.2	62.2	15.0
16	7.5	7.5	48.8	49.8	46.8	46.8	40.7	40.7	54.1	58.1	10.9
20	8.4	8.4	46.4	47.4	44.4	44.4	38.8	38.8	52.2	56.2	9.0
31.25	10.5	10.5	41.4	42.4	39.4	39.4	34.9	34.9	48.3	52.3	-
62.5	15.0	15.0	32.4	33.4	30.4	30.4	28.9	28.8	42.3	46.3	-
100	19.1	19.1	25.2	26.2	23.2	23.2	24.8	24.8	38.2	42.2	-
250	31.1	31.1	7.3	8.2	5.3	5.3	16.8	16.8	30.2	34.2	-
350	37.2	37.2	-1.1	0.0	-3.1	-	13.9	13.9	-	31.3	-
400	40.1	40.1	-4.8	-3.8	-6.8	-	12.8	12.7	26.2	30.2	-
500	45.3	45.3	-11.4	-10.5	-13.4	-	10.8	10.8	24.2	28.2	-
600	-	50.1*	-	-16.4*	-	-	-	9.2*	-	26.6*	-
750	-	56.7*	-	-24.5*	-	-	-	7.3*	-	24.7*	-

\*Values provided for reference only.

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