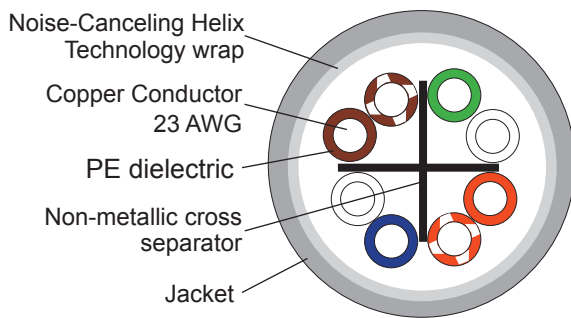


## Atlas-X1™ Cat 6A UTP Cable, CMR

### APPLICATION

Atlas-X1 Cat 6A UTP cable with Noise-Canceling Helix Technology is ideal for use in data centers world wide, education, healthcare, 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 (7.3 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 7.3 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 riser NFPA-70 CMR 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 (7.3 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 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 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

CMR/FT4  
NFPA-70

### COUNTRY OF ORIGIN

Taiwan

### PART NUMBERS

Description	Part No.
Atlas-X1 Cat 6A UTP Cable, CMR, blue, 305-meter spool	100-DUTAR-MLS
Atlas- X1 Cat 6A UTP Cable, CMR, white, 305-meter spool	102-DUTAR-MWS

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<b>Leviton Network Solutions</b> 2222 - 222nd St. SE Bothell, WA 98021-4416  tel 1-800-824-3005 tel +1-425-486-2222 appeng@leviton.com www.leviton.com	<b>Asia / Pacific</b> T +1.631.812.6228 E infoasean@leviton.com	<b>Canada</b> T +1.514.954.1840 E pcservice@leviton.com	<b>Caribbean</b> T +1.954.593.1896 E infocaribbean@leviton.com	<b>China</b> T +852.2774.9876 E infochina@leviton.com	<b>Colombia</b> T +57.1.743.6045 E infocolombia@leviton.com
	<b>Europe</b> T +44.0.1592.772124 E customerserviceeu@leviton.com	<b>Mexico</b> T +52.55.5082.1040 E lsamarketing@leviton.com	<b>Middle East &amp; Africa</b> T +971.4.247.9800 E lmeinfo@leviton.com	<b>South Korea</b> T +82.2.3273.9963 E infokorea@leviton.com	

**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 ~ 60° C during installation: 0° C ~ 50° C
<b>Electrical Properties (-20° C ± 5° C)</b>	
DC resistance	Max. 8.2 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. 160 pf/100 m at 1kHz
Characteristic impedance (1 - 100MHz)	(100 ± 15) Ω
Nominal velocity of propagation	66%
Test voltage (DC, 1 min.)	1 kV/1 min.
Delay Skew	45 ns/100 m

Construction		
Conductor	Bare copper wire	23 AWG
Insulation	Polyethylene	Ø 1.2 mm
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/FT4	
Outer diameter	Ø 7.3 mm ± 0.2 mm (0.287")	

**DUTAR-MxS**

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.	Return Loss (dB) min.	IL (dB) min.	Propagation Delay (ns/100m) 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

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