## Atlas-X1™ Cat 6A UTP Cable, LSZH

### Application
Atlas-X1 Cat 6A UTP cable with Noise-Canceling Helix Technology is ideal for use in data centers, education, healthcare, and government facilities where increased security and superior performance are 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.

### 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 requirements

### 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 three colors (blue, grey, and white)

### Standards Compliance
- ANSI/TIA-568.2-D Cat 6A
- ISO/IEC 11801-1 Class E<sub>A</sub>
- EN 50173-1 Class EA
- 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
- IEC 60332-1 (vertical flame test)
- IEC 60754
- IEC 61034

### Country of Origin
Taiwan

### Part Numbers

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
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<tr>
<td>Atlas-X1 Cat 6A UTP Cable, Low-Smoke Zero Halogen, blue, 305-meter spool</td>
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## Product Specifications

### Warranty Information
For a copy of Leviton product warranties, visit www.leviton.com/warranty.

### 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

#### 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 (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

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

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<th>Freq. (MHz)</th>
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<th>PS-NEXT (dB) min.</th>
<th>ACRF (dB) min.</th>
<th>PS-ACRF (dB) min.</th>
<th>PS-ANEXT (dB) min.</th>
<th>PS-AACRF (dB) min.</th>
<th>Return Loss (dB) min.</th>
<th>IL (dB) min.</th>
<th>Propagation Delay (ns/100m) max.</th>
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appeng@leviton.com
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- **Warranty Information**
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