**eXtreme™ Cat 6A UTP Cable, LSZH**

**APPLICATON**
eXtreme Cat 6A UTP cable is ideal for use in data centers, education, health care, and government facilities where increased security and superior performance are critical.

**SPECIFICATION**
The Cat 6A UTP cable shall have a nominal diameter of 7.7 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 cable shall meet IEC 60332-1 flame rating. The cable shall meet ANSI/TIA-568.2-D Cat 6A and ISO/IEC 11801-1 Class E_A performance requirements.

**COUNTRY OF ORIGIN**
UK

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**FEATURES**
- Patented Noise Canceling Helix Technology delivers enhanced alien crosstalk performance
- Provides additional headroom to support current and emerging applications
- Independently tested and verified to meet ANSI/TIA Cat 6A and ISO Class E_A performance

**DESIGN CONSIDERATIONS**
- Use with Leviton eXtreme 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_A
- EN 50173-1 Class E_A
- 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
- IEC 60754
- IEC 61034

**WARRANTY INFORMATION**
*Note:* Limited Product and Limited Extended Warranties are rendered VOID if the installed structured cabling system is used for PoE applications that exceed the product’s specified power rating. For a copy of Leviton product warranties, visit leviton.com/warranty.

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**PART NUMBERS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>eXtreme Cat 6A UTP Cable, Low-Smoke Zero Halogen, blue, 305-meter spool</td>
<td>180-UTPAZ-MLS</td>
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<tr>
<td>eXtreme Cat 6A UTP Cable, Low-Smoke Zero Halogen, white, 305-meter spool</td>
<td>182-UTPAZ-MWS</td>
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**TECHNICAL SPECIFICATIONS**

**Mechanical Properties**

<table>
<thead>
<tr>
<th>Construction</th>
<th>Bare copper wire</th>
<th>23 AWG</th>
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<tbody>
<tr>
<td>Insulation</td>
<td>Polyethylene</td>
<td>Ø 1.18 mm</td>
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</table>

**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**

LSZH

**Outer diameter**

Ø 7.7 mm ± 0.2 mm (0.303")

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**Electrical Properties (-20° C ± 5° C)**

<table>
<thead>
<tr>
<th>DC resistance</th>
<th>Max. 8.0 Ω/km at 20° C</th>
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</thead>
<tbody>
<tr>
<td>Resistance unbalance</td>
<td>Max. 2% at 20° C</td>
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<tr>
<td>Insulation resistance (500V)</td>
<td>Min. 2000 MΩ/Km at 20° C</td>
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<tr>
<td>Mutual capacitance</td>
<td>Nom. 43 nf/km at 1kHz</td>
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<tr>
<td>Capacitance unbalance (pair to ground)</td>
<td>Max. 1500 pf/km at 1kHz</td>
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<tr>
<td>Nominal velocity of propagation</td>
<td>66%</td>
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<tr>
<td>Test voltage (DC, 1 min.)</td>
<td>1 kV/1 min.</td>
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<tr>
<td>Delay skew</td>
<td>12 ns/100m</td>
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<tr>
<td>Propagation delay</td>
<td>≤ 427 ns/100m</td>
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**ANSI/TIA-568.2-D Category 6A Horizontal Cable**

<table>
<thead>
<tr>
<th>Freq. (MHz)</th>
<th>Attenuation (insertion loss)</th>
<th>NEXT (dB)</th>
<th>PS-NEXT (dB)</th>
<th>ELFEXT (dB/100m)</th>
<th>PS-ELFEXT (dB/100m)</th>
<th>Return Loss (dB)</th>
<th>TCL</th>
<th>ELTCTL</th>
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<td>1</td>
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<td>74.3</td>
<td>72.3</td>
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<td>8</td>
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<td>38.0</td>
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