SYSTEM DATA SHEET

CX6650 | CAT 6A ENHANCED UTP SYSTEM

This industry-leading Cat 6A system delivers excellent performance and ROI, making it ideal for demanding mission-critical networks

- Exceeds ANSI/TIA-568.2-D Cat 6A and ISO/IEC 11801-1 Class EA requirements for channel, link, and component requirements to support IEEE 10GBASE-T (802.3an) networks
- Limited lifetime warranty available when projects are installed by Leviton or Berk-Tek certified contractors
- Error-free performance up to 10 Gigabit Ethernet with full duplex transmission up to 500MHz
- Assures excellent alien crosstalk (AXT) suppression, with margin guarantees
- Backwards compatible with Gigabit Ethernet to provide seamless migration to 10GBASE-T and supports all Cat 6 and Cat 5e system requirements

GUARANTEED* SYSTEM PERFORMANCE

<table>
<thead>
<tr>
<th>CX6650</th>
<th>CAT 6A ENHANCED UTP SYSTEM CHANNEL MARGIN GUARANTEES*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss</td>
<td>NEXT</td>
</tr>
<tr>
<td>3%</td>
<td>4 dB</td>
</tr>
</tbody>
</table>

*Values represent guaranteed margins to ANSI/TIA-568.2-D standard at 20ºC ambient temperature. All parameters comply with ANSI/TIA-568.2-D Cat 6A and ISO/IEC 11801-1 Class EA requirements across the entire frequency range. All values represent worst-case margins for 5- to-100 meter channel configurations. System performance margin guarantees are representative of the specific components and topologies as listed on the CX6650 solution data sheet. Contact your Berk-Tek Leviton Technologies technical representative for more information on alternative components and channel configurations. Details at berkteklevitontechnologies.com.

Guaranteed System Performance applies exclusively when the system is installed and tested by Leviton Network Solutions Certified Contractors, or Berk-Tek Certified OASIS Integrators. Guaranteed margin values apply at the time of installation.

SYSTEM TOPOLOGY

RECOMMENDED FOR

10GBASE-T network applications and mission-critical systems
Short links in data centers
Data center applications including computer clusters and end-of-row architectures
Optimized total cost of ownership for financial, health care, government, transportation, and education environments
Networks with high bandwidth utilization requirements
PoE standards: IEEE 802.3af, 802.3at, 802.3bt, Cisco UPoE, and Power over HDBaseT™ (PoH) up to 100 watts
IP-based security and building automation systems utilizing UTP cabling
Optimal support for Energy Efficient Ethernet

Customer-focused, technology-driven, quality-assured for unparalleled return on infrastructure investment
**LEVITON JACKS**

**ATLAS-X1™ CAT 6A COMPONENT-RATED QUICKPORT® JACKS**

- Tested and approved for use in air-handling spaces (plenum rating) in accordance with UL Standard 2043
- Independently tested and guaranteed to exceed all component, permanent link, and channel margins
- Patented Retention Force Technology™ protects against tine damage and maintains contact force between plug and Jack, preventing arcing from intermittent disconnects in PoE applications
- PoE optimized tine geometry prevents arcing damage where plug and Jack make contact, extending the life of the Jack and ensuring maximum performance (see specification sheets for full PoE capabilities)
- Solid metal body dissipates 53% more heat than plastic, minimizing damage from excess heat in PoE applications
- Available with internal shutter to protect from dust and debris
- Unique, tool-free design requires no specialized termination or re-termination tool
- Short Jack design supports a wider range of applications (e.g. shallow boxes, enclosures, bend radius, etc.)
- Interchangeable icons in 13 colors (VOICE, DATA, AV, and blank) make it easy to identify and track data, voice, or other functions (select Jacks include color matching icons)
- Proudly manufactured in the U.S.

**LEVITON PATCH PANELS**

**CAT 6A 110-STYLE AND QUICKPORT PATCH PANELS**

- Available in cassette-style, 110-Style, and QuickPort flat, angled, recessed angled, recessed, and zero-u configurations
- Patented triple-stage compensation design with integrated flexible circuit enhances link and channel performance
- Gas-tight insulation displacement contacts provide excellent conductor retention and resistance to surface-contact oxidation for life of the system
- QuickPort patch panels available for high-density applications — 1RU, 48-port
- 110-Style patch panels include color codes for T568A/B wiring schemes

**PART NUMBERS**

- Common part numbers shown. Many additional colors, lengths, and other options available online.

<table>
<thead>
<tr>
<th>LEVITON JACKS</th>
<th>STANDARD</th>
<th>WITH SHUTTER</th>
<th>ADDITIONAL ICONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atlas-X1 Cat 6A Component-Rated QuickPort Jack</td>
<td>BAJK-P96</td>
<td>BAJK-P96</td>
<td>ICONS-IC*</td>
</tr>
</tbody>
</table>

**LEVITON PATCH PANELS**

<table>
<thead>
<tr>
<th>LEVITON PATCH PANELS</th>
<th>1RU, 24-PORT</th>
<th>1RU, 48-PORT</th>
<th>2RU, 48-PORT</th>
<th>2RU, 72-PORT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat 6A Flat 110-Style Patch Panel</td>
<td>6A596-U24</td>
<td>6A596-U48</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cat 6A Angled 110-Style Patch Panel</td>
<td>6A597-U24</td>
<td>6A597-U48</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flat QuickPort Patch Panel+</td>
<td>49255-I24</td>
<td>49255-I48</td>
<td>49255-H48</td>
<td>49255-072</td>
</tr>
<tr>
<td>Angled QuickPort Patch Panel+</td>
<td>49256-I24</td>
<td>49256-I48</td>
<td>49256-H48</td>
<td>49256-072</td>
</tr>
</tbody>
</table>

**LEVITON 110-STYLE WALL-MOUNT WIRING BLOCK KIT**

- Cat 6A 110-Style Wiring Block Kit, includes 64-port block with legs, labels, and 16 C-4 clips
- 4106A-1F4

**BERK-TEK CABLE**

**LANMARK™-10G2 CAT 6A UTP CABLE**

- Manages the convergence of voice, video, and data at 10 gigabit Ethernet speeds, simplifying networks
- Improved insertion loss for stronger signal-to-noise ratio
- ETL LANmark Verified beyond ANSI/TIA-568.2-D Category 6A performance
- Fully compliant to Category 6A requirements, including alien crosstalk (AXT)
- Easier installation and cable management with round design and outer diameter of 0.300" (7.6mm), CMP
- Characterized to 750 MHz, 250 MHz greater than the standard
- UL/ETL Listed
- 23 gauge
- Proudly manufactured in the U.S.

**BERK-TEK PATCH CORDS**

**ATLAS-X1 CAT 6A SLIMLINE BOOT PATCH CORDS**

- Tested and verified for ANSI/TIA Cat 6A component and channel requirements
- Excellent alien crosstalk (AXT) suppression
- 26-gauge stranded for maximum flexibility in any density patching environment
- Nominal outer diameter of .24” to reduce cable pathways in racks and cabinets
- SlimLine-design modular boot supports high-density patching
- Available in lengths of 3’, 5’, 7’, 10’, 15’, 20’ and in 7 colors
- Made-to-order custom lengths are quickly available for top-of-rack, end-of-row, or general network patching
- Country of Origin is U.S.; manufactured using Berk-Tek cable

**PART NUMBERS**

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<tbody>
<tr>
<td>Atlas-X1 Cat 6A SlimLine Boot Patch Cord</td>
<td>64510-xx*</td>
<td></td>
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</tbody>
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<tr>
<th>BERK-TEK CABLE</th>
<th>PLENUM REEL</th>
<th>RISER REEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>LANmark-10G2 Cat 6A UTP Cable, blue</td>
<td>10130484</td>
<td>10137700</td>
</tr>
<tr>
<td>LANmark-10G2 Cat 6A UTP Cable, white</td>
<td>10137384</td>
<td>10137703</td>
</tr>
<tr>
<td>LANmark-10G2 Cat 6A UTP Cable, gray</td>
<td>10137183</td>
<td>10137701</td>
</tr>
</tbody>
</table>

* = Color: White (W), Lt. Almond (T), Ivory (I), Yellow (Y), Orange (O), Crimson (C), Dark Red (R), Purple (P), Blue (L), Green (G), Gray (V), Black (E), Brown (B)
+ = Sold empty, load with BAJK-Jacks
* = For consolidation point, legs are non-removable and not sold separately
* = Color: White (W), Yellow (Y), Blue (B), Red (R), Green (G), Gray (V), Black (E), Violet (O), Orange (O)
xx = Length: 3, 5, 7, 10, 15, 20 feet