SYSTEM DATA SHEET

CX6850 | CAT 6A PREMIUM+ UTP SYSTEM

Highest performing, robust Cat 6A system ideal for demanding mission-critical networks

- Innovative crosstalk prevention (XTP) technology in the LANmark-XTP cable assures excellent alien crosstalk (AXT) suppression, with industry-leading channel margin guarantees
- Exceeds ANSI/TIA-568.2-D Cat 6A and ISO/IEC 11801-1 Class E₆ requirements for channel, link, and component requirements to support IEEE 10GBASE-T (802.3an) networks
- Limited lifetime warranty available when installed by Leviton or Berk-Tek certified contractors
- Channel performance third-party verified by Intertek Testing Services (ETL)
- Error-free performance up to 10 Gigabit Ethernet with full duplex transmission up to 500MHz
- 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>Insertion Loss</th>
<th>NEXT</th>
<th>PSNEXT</th>
<th>ACR-F (IEEE802.3an)</th>
<th>PSACR-F (IEEE802.3an)</th>
<th>Return Loss</th>
<th>ACR-N</th>
<th>PSACR-N</th>
<th>PSNEXT</th>
<th>PSAONF</th>
</tr>
</thead>
<tbody>
<tr>
<td>3%</td>
<td>5 dB</td>
<td>6 dB</td>
<td>10 dB</td>
<td>10 dB</td>
<td>4 dB</td>
<td>7 dB</td>
<td>7 dB</td>
<td>5 dB</td>
<td>11 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 E₆ requirements across the entire frequency range. All values represent worst-case margins for 5-100 meter channel configurations. System performance margin guarantees are representative of the specific components and topologies as listed on the CX6850 solution data sheet and third-party test report. 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

Near End

- Patch Cord 6A516-xx*
- Patch Panel 6A586-U48
- Patch Panel 49255-D72
- Jack 6AUJK-R*6
- Cable LANmark™-XTP
- Consolidation Point 41D6A-1F4

Far End

- 3m
- 2m
- 75m
- 15m
- 5m

Recommended For

10GBASE-T network applications and mission-critical systems
Short links in data centers
High-density cabling and constrained pathway environments
Optimal total cost of ownership for financial, health care, government, transportation, and education environments
PoE standards: IEEE 802.3af, 802.3at, 802.3bt, Cisco UPoE, and Power over HDBaseT™ (PoH) up to 100 watts

Wireless access points for IEEE 802.11ac applications
IP-based security and building automation systems utilizing UTP cabling
Optimal support for Energy Efficient Ethernet in the data center
### 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 when 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 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 E2XHD, 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>
</table>
| Atlas-X1 Cat 6A Component-Rated QuickPort Jack | 6AUJK-*R* | 6AUJK-*S* | ICONS-IC*
| LEVITON E2XHD CASETTES | | | |
| e2XHD Empty Cassette+ | E2XHD-BRK |

<table>
<thead>
<tr>
<th>LEVITON PATCH PANELS</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat 6A Flat 110-Style Patch Panel</td>
<td>6AS86-U24</td>
<td>6AS86-U48</td>
</tr>
<tr>
<td>Cat 6A Angled 110-Style Patch Panel</td>
<td>6AS87-U24</td>
<td>6AS87-U48</td>
</tr>
<tr>
<td>Flat QuickPort Patch Panel+</td>
<td>E2X1F-S48</td>
<td></td>
</tr>
<tr>
<td>Angled QuickPort Patch Panel+</td>
<td>49255-H24</td>
<td>49255-H48</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LEVITON 110-STYLE WALL-MOUNT Wiring Block Kit</th>
<th>64-PAIR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat 6A 110-Style Wiring Block Kit includes 64-port block with legs, labels, and 16 C-4 clips*</td>
<td></td>
</tr>
</tbody>
</table>

### LEVITON PATCH CORDS

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

- Tested and verified for 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 from stock in lengths of 3’, 5’, 7’, 10’, 15’, 20’ and in 7 colors
- Country of Origin is U.S., manufactured using Berk-Tek cable

### BERK-TEK CABLE

**LANMARK™-XT P Cat 6A UTP CABLE**

- Innovative noise-canceling XTP technology delivers superior alien crosstalk (AXT) suppression
- Manages the convergence of voice, video, and data at 10 gigabit Ethernet speeds, simplifying networks
- Verified performance beyond ANSI/TIA-568.2-D Category 6A by third-party labs (Intertek ETL)
- Easier installation and cable management with reduced outer diameter of 0.275" (6.9mm), CMP
- Offers superior electrical performance, as well as AXT and EMI resistance without requiring grounding or bonding
- Supports both short and long channels
- Better density and cooling
- Proudly manufactured in the U.S.

---

**Notes:**

* = Jack Color: White (W), Lt. Almond (T), Ivory (I), Yellow (Y), Orange (O), Crimson (C), Dark Red (R), Purple (P), Blue (L), Green (V), Gray (G), Black (E), Brown (B)

+= Sold empty, load with 6AUJK jacks

“+= Solid empty, load with E2XHD-BRK cassettes

*= For consolidation point, legs are non-removable and not sold separately

* xx = Length: 3, 5, 7, 10, 15, 20 feet

* * = Color: White (W), Yellow (Y), Blue (L), Black (E), Red (R), Green (G), Gray (S), Orange (O), Violet (V)