

SYSTEM DATA SHEET

# CX6900 | HIGH-DENSITY CAT 6A PREMIUM+ UTP SYSTEM

**Smallest diameter highest performing, Cat 6A system ideal for demanding mission-critical networks**

- Features the smallest diameter Cat 6A cable, providing improved flexibility and cable management
- Superior alien crosstalk suppression and noise immunity without the requirement of bonding and grounding
- Exceeds ANSI/TIA-568.2-D Cat 6A and ISO/IEC 11801-1 Class E<sub>A</sub> 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

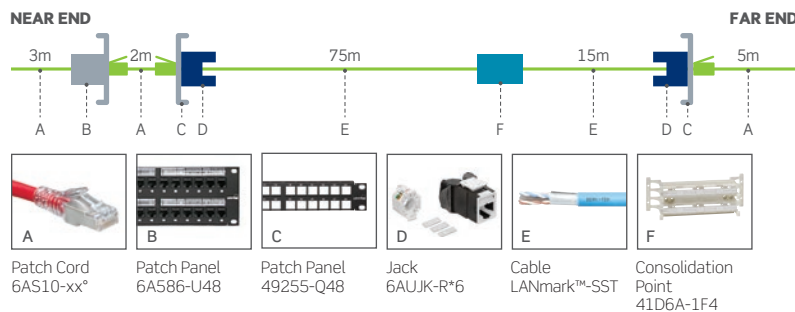
## GUARANTEED\* SYSTEM PERFORMANCE

CX6900   HIGH-DENSITY CAT 6A PREMIUM+ UTP SYSTEM CHANNEL MARGIN GUARANTEES*									
Insertion Loss	NEXT	PSNEXT	ACR-F (ELFEXT)	PSACR-F (PSELFEXT)	Return Loss	ACR-N	PSACR-N	PSANEXT	PSAACR-F
3%	4 dB	6 dB	10 dB	10 dB	4 dB	7 dB	7 dB	6 dB	11 dB

\*Values represent guaranteed margins to ANSI/TIA-568.2-D standard at 20°C ambient temperature. All parameters comply with ANSI/TIA-568.2-D Cat 6A and ISO/IEC 11801-1 Class E<sub>A</sub> 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 CX6900 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](http://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

High-density cabling and constrained  
pathway environments

Optimal total cost of ownership for financial,  
health care, government, transportation,  
and education environments

Exceeds PoE standards up to 100 watts

Wireless access points for IEEE 802.11ac  
and higher

IP-based security and building automation  
systems utilizing UTP cabling

Optimal support for Energy Efficient  
Ethernet in the data center

# HIGH-DENSITY

# 6A

CAT  
PREMIUM+



## 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 E2XHD, 110-STYLE, AND QUICKPORT PATCH PANELS

- Available in cassette-style, 110-Style, and QuickPort, 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



## 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™-SST CAT 6A UTP CABLE

- Features an insulated metallic isolation wrap design
- Smallest Category 6A UTP cable diameter of 0.250" (6.4mm) (CMP)
- Small cable design for improved operational cooling, flexibility and cable management
- UL LP rated for high power PoE support LP 0.7(CMP) LP 0.5(CMR)
- 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)
- Offers superior electrical performance, as well as AXT and EMI resistance without requiring grounding or bonding
- Supports both short and long channels
- Proudly manufactured in the U.S.

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

LEVITON JACKS	STANDARD	WITH SHUTTER	ADDITIONAL ICONS
Atlas-X1 Cat 6A Component-Rated QuickPort Jack	6AUJK-R*6	6AUJK-S*6	ICONS-IC*
LEVITON E2XHD CASSETTES			
e2XHD Empty Cassette+	E2XHD-BRK		
LEVITON PATCH PANELS	1RU, 24-PORT	1RU, 48-PORT	2RU, 48-PORT
Cat 6A Flat 110-Style Patch Panel	6A586-U24		6A586-U48
Cat 6A Angled 110-Style Patch Panel	6A587-U24		6A587-U48
e2XHD High-Density Flat Patch Panel*		E2X1F-S48	
e2XHD High-Density Angled Patch Panel*		E2X1A-S48	
Flat QuickPort Patch Panel+	49255-H24	49255-Q48	49255-H48
Angled QuickPort Patch Panel+	49256-H24	49256-D48	49256-H48
LEVITON 110-STYLE WALL-MOUNT WIRING BLOCK KIT	64-PAIR		
Cat 6A 110-Style Wiring Block Kit, includes 64-port block with legs, labels, and 16 C-4 clips~	41D6A-1F4		
LEVITON PATCH CORDS			
Atlas-X1 Cat 6A SlimLine Boot Patch Cord	6AS10-xx*		
BERK-TEK CABLE	PLENUM REEL	RISER REEL	
LANmark-SST Cat 6A UTP Cable, blue	11101842	11104157	
LANmark-SST Cat 6A UTP Cable, white	11140401	11140409	
LANmark-SST Cat 6A UTP Cable, dark gray	11140402	11140410	

\* = 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)