LEVITON ®

ATLAS-X1™ CAT 6 UTP SYSTEM

Our best Cat 6 system features the ATLAS-X1 jack and offers superior performance for mission-critical applications
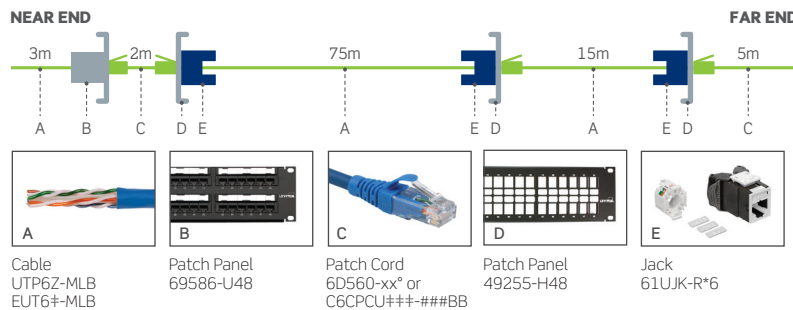
- Exceeds ISO/IEC 11801-1 Class E and ANSI/TIA-568.2-D Cat 6 requirements for channel, link, and component performance to support IEEE 1000BASE-T networks

- Leviton System Verification Lab tested, ensuring consistent, reliable performance

- Error-free performance up to 1 Gigabit Ethernet with full duplex transmission

- Provides additional performance margin to reliably support Gigabit Ethernet in high-noise environments

- Provides bandwidth required for multimedia and broadband applications

- ATLAS-X1™ jack is independently tested to exceed performance standards, features tool-free terminations, and has PoE optimized tine geometry

TYPICAL* SYSTEM PERFORMANCE

ATLAS-X1 CAT 6 UTP SYSTEM CHANNEL MARGINS*							
Insertion Loss	NEXT	PSNEXT	ACR-F (ELFEXT)	PSACR-F (PSELFEXT)	Return Loss	ACR-N	PSACR-N
6.5%	10 dB	11 dB	11 dB	13 dB	6 dB	12 dB	11 dB

*All parameters comply with ANSI/TIA-568.2-D Cat 6 and ISO/IEC 11801-1 Class E requirements across the entire frequency range. All values represent typical margins for 9- to 100-meter channel configurations. System performance is representative of the specific components and topologies as listed on this system data sheet. Typical margin is based on third-party lab verified testing, in-house testing and field test data. Field-installed channel margins may vary based on the accuracy of the handheld tester, system design and installation practices. Only Leviton approved testers may be used. All stated performance specifications are subject to the terms and conditions of the manufacturers warranties. Details at www.leviton.com.

SYSTEM TOPOLOGY

NEAR END | 3m — A B — 2m — C | D E — 75m — A | E D — 15m — A | E D — 5m — C | **FAR END**

A — Cable UTP6Z-MLB EUT6‡-MLB

B — Patch Panel 69586-U48

C — Patch Cord 6D560-xx° or C6CPCU‡‡‡-###BB

D — Patch Panel 49255-H48

E — Jack 61UJK-R*6

RECOMMENDED FOR

1000BASE-T network applications and mission-critical systems

Network applications in data center, 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

Networks with high bandwidth utilization requirements

Any IP-based system utilizing UTP cabling

AV systems for high-end conference rooms and classrooms

Cat 6 ATLAS-X1

JACKS
ATLAS-X1™ CAT 6 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.

PATCH PANELS
CAT 6 110-STYLE AND QUICKPORT PATCH PANELS

- 110-style panels exceed requirements for Category 6 described in ANSI/TIA-568.2-D and Class E requirements described in ISO/IEC 11801-1
- Independently tested and verified by Intertek (ETL) to meet all TIA component, permanent link, and channel requirements
- 110-Style available in flat and angled
- QuickPort available in flat, angled, recessed, and Zero-U configurations
- Gas-tight insulation displacement contacts provide excellent conductor retention and resistance to surface-contact oxidation for life of the system
- Include color codes for T568A/B wiring schemes

PATCH CORDS
CAT 6 PATCH CORDS

- Tested and verified for TIA Category 6 component requirements
- 24-gauge stranded for maximum flexibility
- Nominal outer diameter of 5.8 mm (.228") to reduce cable pathways in racks and cabinets
- Narrow boot supports high-density patching and extraction with extended-reach latch release
- Make-to-order custom lengths are available

CABLE
CAT 6 UTP CABLE

- Meets ANSI/TIA-568.2-D Cat 6 and ISO/IEC 11801-1 Class E standards
- Optimum support for Gigabit Ethernet
- Available in Plenum, Riser, IEC 60332-1 flame rated
- Supports IEEE 802.3: 1000BASE-T (Gigabit Ethernet), 100BASE-T (fast Ethernet), and 10BASE-T applications
- Includes non-metallic cross separator allowing for stronger signal strength and less vulnerability to noise interference

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

JACKS			STANDARD	SHUTTERED	ADDITIONAL ICONS
ATLAS-X1 Cat 6 Component-Rated QuickPort Jack			61UJK-R*6	61UJK-S*6	ICONS-IC*

PATCH PANELS			1RU 24-PORT	1RU 48-PORT	2RU 48-PORT	2RU 72-PORT
Cat 6 Flat 110-Style Patch Panel			69586-U24		69586-U48	
Cat 6 Angled 110-Style Patch Panel			69587-U24		69587-U48	
Flat QuickPort Patch Panel+			49255-H24	49255-Q48	49255-H48	49255-D72
Angled QuickPort Patch Panel +			49256-H24	49256-D48	49256-H48	49256-D72

PATCH CORDS	CANADA	LATIN AMERICA	AFRICA	MIDDLE EAST	INDIA	KOREA	ASIA
Cat 6 UTP Patch Cord, LSHF/LSZH			C6CPCU‡‡‡-###BB	C6CPCU‡‡‡-###BB	C6CPCU‡‡‡-###BB	C6CPCU‡‡‡-###BB	C6CPCU‡‡‡-###BB
Cat 6 SlimLine Boot UTP Patch Cord, CM	6D560-xxº	6D560-xxº	6D560-xxº	6D560-xxº	6D560-xxº	6D560-xxº	6D560-xxº
Cat 6 UTP Patch Cord, snagless boot (LSHF/LSZH)			C6CPCU‡‡‡-###BB	C6CPCU‡‡‡-###BB	C6CPCU‡‡‡-###BB	C6CPCU‡‡‡-###BB	C6CPCU‡‡‡-###BB

CABLE	CANADA	LATIN AMERICA	AFRICA	MIDDLE EAST	INDIA	KOREA	ASIA
ATLAS-X1 Cat 6 Cable, Riser Rated, blue~	110-EUT6R-MLB	110-EUT6R-MLB		110-EUT6R-MLB	110-EUT6R-MLB	110-EUT6R-MLB	110-EUT6R-MLB
ATLAS-X1 Cat 6 Cable, Plenum Rated, blue~	110-EUT6P-MLB	110-EUT6P-MLB	110-EUT6P-MLB	110-EUT6P-MLB	110-EUT6P-MLB		110-EUT6P-MLB
Cat 6 Cable, LSHF/LSZH, blue~		120-UTP6Z-MLB	120-UTP6Z-MLB	120-UTP6Z-MLB	120-UTP6Z-MLB	120-UTP6Z-MLB	120-UTP6Z-MLB

* = 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 61UJK jacks   ‡‡‡ = Length: 1 (010), 1.5 (015), 2 (020), 3 (030), 5 (050) meters   ### = Color: Yellow (666), Red (111), Blue (444), Green (555), Gray (888)
xx = Length: 3 (03), 5 (05), 7 (07), 10 (10), 15 (15), 20 (20) feet   º = Color: White (W), Yellow (Y), Blue (L), Black (E), Red (R), Green (G), Gray (S)
~ = Sold in 305-meter reel in box, additional colors available, visit leviton.com/cable   ¤ = Cable Type: LSHF / LSZH (Z)   ‡ = Cable Type: Riser (R), Plenum (P)