Atlas-X1® Cat 6A UTP System

Our best Cat 6A system features the Atlas-X1 jack and offers superior performance for mission-critical applications
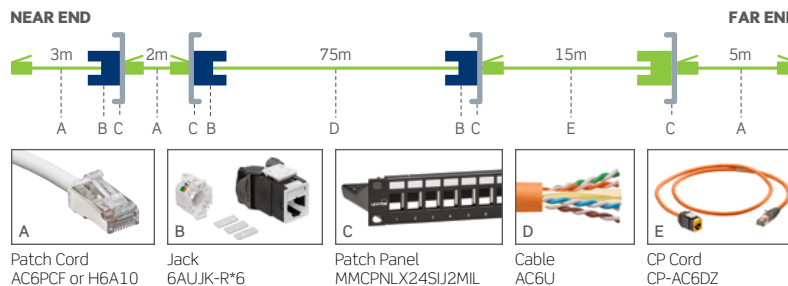
- Exceeds ISO/IEC 11801-1 Class E_A and ANSI/TIA-568.2-D Cat 6A requirements for channel, permanent link, and component requirements to support IEEE 10GBASE-T (802.3an) networks

- Third-party tested and verified

- 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

TYPICAL* SYSTEM PERFORMANCE

ATLAS-X1 CAT 6A UTP SYSTEM CHANNEL MARGINS*										
	Insertion Loss	NEXT	PSNEXT	ACR-F (ELFEXT)	PSACR-F (PSELFEXT)	Return Loss	ACR-N	PSACR-N	PSANEXT	PSAACR-F
Standard (500MHz)	49.4 dB	27.9 dB	24.8 dB	9.3 dB	6.3 dB	6.0 dB	21.5 dB	24.5 dB	49.5 dB	23.0 dB
Typical Performance Margin	3%	5.0 dB	6.0 dB	8.0 dB	10.0 dB	3.0 dB	7.0 dB	7.0 dB	2.0 dB	1.0 dB

*All parameters comply with ANSI/TIA-568.2-D Cat 6A and ISO/IEC 11801-1 Class E_A requirements across the entire frequency range. All values represent typical margins for 19- to 100-meter channel configurations. System performance is representative of the specific components and topologies as listed on this system data sheet. Typical margins listed reflect channels of 21-93 meters when using 28 AWG patch cords (H6A10). Typical performance values are based on verified test results, either third-party, in-house and/or 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   FAR END

3m   2m   75m   15m   5m

A   B C   A   C B   D   B C   E   C   A

A
Patch Cord
AC6PCF or H6A10

B
Jack
6AUJK-R*6

C
Patch Panel
MMCPNLX24SIJ2MIL

D
Cable
AC6U

E
CP Cord
CP-AC6DZ

Cat
6A
Atlas-X1

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 performance requirements
- 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 an 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 6A SNAP-IN-JACK AND E2XHD PATCH PANELS

- Available in Snap-In-Jack and cassette-style in flat and angled configurations
- Snap-in Jack patch panels available in 1RU 24-Port counts as well as 1RU 48-Port high density configurations

PATCH CORDS
CAT 6A PATCH CORDS

- Tested and verified for ISO Cat 6A component and channel requirements
- Nominal OD of 6.0 mm
- Short boot to reduce installed bend radius requirements

CAT 6A HIGH-FLEX PATCH CORDS

- Tested and verified for TIA Cat 6A component and channel requirements
- Nominal OD of 4.7 mm to maximize cable pathway capacity
- Enhanced flexibility and short boot to minimize bend radius requirements
- 28 AWG patch cords have limitations in terms of supported channel lengths and PoE levels. Please see product spec sheet for details of these limitations.

CABLES
CAT 6A UNSHIELDED CABLES

- 23 AWG solid annealed copper wire
- 4 unshielded twisted pairs cabled together, with central separator for increased internal crosstalk performance
- Available in a range of sheath materials to suit a variety of installation environments, including CPR fire performance ratings Eca, Dca, Cca, and B2ca, and color-coded for identification
- Designed and constructed to give optimal electrical performance to the following standards: ISO/IEC 11801-1 Class E_A, IEC 61156-5, EN 50173-1, EN 50288-11-1, and ANSI/TIA-568.2-D
- Supports 10 Gigabit Ethernet

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

JACKS			STANDARD	WITH SHUTTER	ADDITIONAL ICONS
Atlas-X1 Cat 6A Component-Rated QuickPort Jack			6AUJK-R*6	6AUJK-S*6	ICONS-IC*
e2XHD CASSETTES					
e2XHD Empty Cassette+					E2XHD-BRK
PATCH PANELS			**1RU, 24-PORT**		**1RU, 48-PORT**
e2XHD High-Density Flat Patch Panel~					E2X1F-E48
e2XHD High-Density Angled Patch Panel~					E2X1A-E48
Modular Inline Panel with Management Bar				MMCPNLX24SIJ2MIL	
Snap-in-Jack Panel‡				MMCPNLX24SIJ2DCI	
Modular Angled Panel with Management Bar				MMCPNLX24SIJ2MAN	

PATCH CORDS	WHITE	YELLOW	RED	BLUE	GREEN	GRAY	BLACK
Cat 6A Patch Cord	AC6PCFxxx-3CCHB	AC6PCFxxx-6CCHB	AC6PCFxxx-1CCHB	AC6PCFxxx-4CCHB	AC6PCFxxx-5CCHB	AC6PCFxxx-8CCHB	AC6PCFxxx-2CCHB
Cat 6A High-Flex 28 AWG Patch Cord	H6A10-xxW	H6A10-xxY	H6A10-xxR	H6A10-xxL	H6A10-xxG	H6A10-xxS	H6A10-xxE

CABLES				B2ca (Orange)	Cca (Green)	Dca (Blue)	Eca (Violet)
Cat 6A Cable, U/UTP, LSHF/LSZH¥				AC6U-B2ca-xxxOR2	AC6U-Cca-xxxGN2	AC6U-Dca-xxxBU2	AC6U-Eca-xxxVT2

* = 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   ~ = Sold empty, load with E2XHD-BRK cassettes   ‡ = Additional insert colors sold separately
xxx = Length in Meters   xx = Length in Feet: 1-50 (0.3-6.1 meters)   ¥ = Additional colors available as non-standard offering