

SYSTEM DATA SHEET — INTERNATIONAL

# EXTREME™ CAT 6A UTP SYSTEM

Our standard Cat 6A system, excellent for high-bandwidth networks

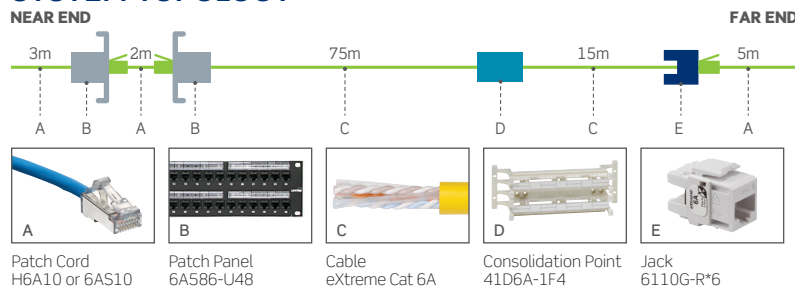
- Exceeds ANSI/TIA-568.2-D Cat 6A and ISO/IEC 11801-1 Class E<sub>A</sub> requirements for cabling systems performance to support IEEE 10GBASE-T (802.3an) networks
- Third-party verified by Intertek Testing Services (ETL)
- Error-free performance up to 10 Gigabit Ethernet with full duplex transmission
- Backwards compatible with Gigabit Ethernet to provide seamless migration path to 10GBASE-T and supports all Cat 6 and Cat 5e system requirements

## TYPICAL\* SYSTEM PERFORMANCE

EXTREME 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)	3%	2.0 dB	3.0 dB	5.0 dB	6.0 dB	1.0 dB	4.0 dB	5.0 dB	0.0 dB	0.0 dB
Typical Performance Margin	3%	2.0 dB	3.0 dB	5.0 dB	6.0 dB	2.0 dB	2.0 dB	5.0 dB	0.0 dB	0.0 dB

\*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 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](http://www.leviton.com).

## SYSTEM TOPOLOGY



## RECOMMENDED FOR

10GBASE-T network application and mission-critical systems

Enterprise applications

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

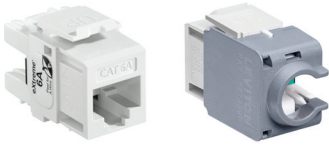
Exceeds PoE standards up to 100 watts

IP-based security and building automation systems utilizing UTP cabling

# CAT 6A

## eXtreme





## JACKS

### EXTREME™ CAT 6A CHANNEL-RATED QUICKPORT™ JACKS

- Exceed requirements for Category 6A channel-level described in ANSI/TIA-568.2-D and Class E<sub>A</sub> requirements described in ISO/IEC 11801-1
- Patented Retention Force Technology™ protects against time damage and maintains contact force between plug and jack, preventing arcing from intermittent disconnects in PoE applications
- Patented Cone of Silence® helps suppress alien crosstalk (AXT)
- Circuit board technology for exceptional high-frequency operation
- Gas-tight insulation displacement contacts provide excellent conductor retention and resistance to surface-contact oxidation for life of the system
- Pair Separation Tower design facilitates separation of conductors and minimizes untwisting
- Patented dual-layer wiring label simplifies punchdown and reduces rework
- 90 or 180 degree bi-directional entry eases cable bend radius in back boxes
- Supports Power over Ethernet (PoE) —see individual product specifications sheets for full capabilities
- Backward compatible with Cat 6 and 5e systems, and 1000BASE-T applications
- Proudly manufactured in the U.S.



## PATCH PANELS

### CAT 6A E2XHD, 110-STYLE, AND QUICKPORT PATCH PANELS

- Available in cassette-style, 110-Style, and QuickPort flat, angled, and zero-u configurations in 12-, 24-, and 48-port counts
- 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



## PATCH CORDS

### CAT 6A STANDARD PATCH CORDS

- Tested and verified for TIA Cat 6A component and channel requirements
- Excellent alien crosstalk (AXT) suppression
- Short boot to reduce installed bend radius requirements
- 26-gauge stranded for maximum flexibility in any density patching environment
- Available from stock in lengths of 3' (0.9 m), 5' (1.5 m), 7' (2.1 m), 10' (3.1 m), 15' (4.6 m), 20' (6.1 m) and in 7 colors
- Country of Origin: U.S.

### 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.
- Available in 1' (0.3m) - 50' (15.2m) lengths and 7 colors



## CABLES

### CAT 6A UTP CABLES

- Independently tested and verified to meet ANSI/TIA Cat 6A and ISO 11801-1 Class E<sub>A</sub> performance
- Round, compact design provides easier installation and cable management
- Provides bandwidth required for multimedia, video, and other future applications
- Available in Plenum, Riser, and IEC 60332-1 (LSZH) flame ratings

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

LEVITON JACKS			
eXtreme Cat 6A Channel-Rated QuickPort Jack			6110G-R*6
LEVITON E2XHD CASSETTES			
e2XHD Empty Cassette+			E2XHD-BRK
LEVITON PATCH PANELS	1RU, 24-PORT	1RU, 48-PORT	2RU, 48-PORT
e2XHD High-Density Flat Patch Panel*		E2X1F-S48	
e2XHD High-Density Angled Patch Panel*		E2X1A-S48	
Cat 6A Flat 110-Style Patch Panel	6A586-U24		6A586-U48
Cat 6A Angled 110-Style Patch Panel	6A587-U24		6A587-U48
Flat QuickPort Patch Panel+	49255-H24	49255-Q48	49255-H48
Angled QuickPort Patch Panel+	49256-H24	49256-D48	49256-H48
LEVITON PATCH CORDS			
Cat 6A Standard Patch Cords		LATIN AMERICA	ASIA PACIFIC
Cat 6A High-Flex 28 AWG Patch Cord		6AS10-##°	6AS10-##°
LEVITON CABLES			
		LATIN AMERICA	ASIA PACIFIC
Cat 6A, Riser Rated, blue~		110-EUTAR-MLS	110-EUTAR-MLS
Cat 6A, Plenum Rated, blue~		110-IUTAP-MLS	110-IUTAP-MLS
Cat 6A, Low-Smoke Zero Halogen, blue~		AC6U-Eca-305VT2	AC6U-Eca-305VT2

\* = 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 E2XHD-BRK cassettes  
 ° = Color: White (W), Yellow (Y), Blue (L), Black (E), Red (R), Green (G), Gray (S), Orange (O), Violet (V)  
 ~ = Sold in 305-meter spools. Additional colors available, visit [Leviton.com/cable](http://Leviton.com/cable)  
 xx = Length in Feet: 1-50 (0.3-6.1 meters)  
 ## = Length: 3 (03), 5 (05), 7 (07), 10 (10), 15 (15), 20 (20) feet  
 + = Sold empty, load with 6110G jacks