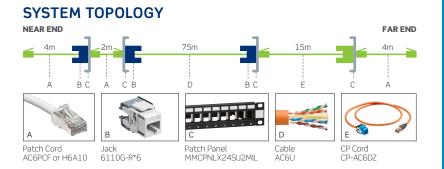# LEVITON®

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_A requirements for cabling systems performance 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

- 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

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)	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%	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_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

4m — 2m — 75m — 15m — 4m

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

Patch Cord
AC6PCF or H6A10

Jack
6110G-R*6

Patch Panel
MMCPNLX24SIJ2MIL

Cable
AC6U

CP Cord
CP-AC6DZ

RECOMMENDED FOR

10GBASE-T network applications 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_A requirements described in ISO/IEC 11801-1
- Patented Retention Force Technology™ protects against tine 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 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 are available in 1RU 24-port 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.

LEVITON 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						1-PACK	12-PACK
eXtreme Cat 6A Channel-Rated QuickPort Jack						6110G-R*6	6110G-C^6
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 with Management Bar‡						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

* = 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) ^ = Color: White (W), Black (E), Blue (L)
\+ = 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