eXtreme® Cat 6A Flat 110-Style Patch Panels

APPLICATION

eXtreme Cat 6A Flat 110-Style Patch Panels are designed for use with industry-standard 19-inch racks and cabinets for telecommunication room and data center applications. Patch panels exceed all component performance requirements in the ratified ANSI/TIA-568-C.2 standard and the Class E_A component requirements for the ISO/EIA 11801 standard from 1 MHz to 500 MHz to support the IEEE 802.3an standard for 10GBASE-T network performance. Patch panels feature industry-standard, in-line IDCs and are component rated, which provides greater Cat 6A performance margins in link and channel field testing.

SPECIFICATION

UTP patch panels shall meet all requirements for Cat 6A component performance as defined in ANSI/TIA-568-C.2 and all channel performance requirements in ISO 11801 Class E_A and IEEE 802.3an for 10GBASE-T. Panels shall feature industry-standard, in-line 110 insulation displacement connectors (IDCs) and separated six-pack IDC blocks. 110 IDCs shall include conductor retention features and pair separation towers designed specifically for large conductor size in Cat 6A cable. Patch panels shall incorporate a triple-stage compensation design with integrated flexible circuit to enhance permanent link and channel performance. The panel circuit board design shall incorporate an isolation gap to minimize alien crosstalk. All terminations shall use 110-style IDC. 110-style IDC housings shall provide a cutting ledge directly adjacent to the 110-style termination against which wires can be terminated and cut in one action by the installer. Patch panels shall be available in 24- and 48-port configurations. Patch panels shall not require a separate termination manager. Panels shall have a black painted finish with white silk-screened port numbers.

COUNTRY OF ORIGIN

USA

FEATURES

- Independently tested and verified by Intertek (ETL) for Cat 6A component performance
- In-line IDC field is consistent with existing 110-style panel designs
- Patented triple-stage compensation design with integrated flexible circuit enhances link and channel performance
- Patented isolation gap on circuit board minimizes alien crosstalk between ports
- Conductor-retention feature holds individual conductors in place during termination
- Pair Separation Towers facilitate separation of Cat 6A conductors
- Separated blocks provide room to work with larger Cat 6A cables and help to identify first-pair position
- Terminates up to 50% faster than Cat 6A panels requiring additional termination manager
- Reversible card shows T568 A and B wiring schemes separately
- Industry-standard port density: 24-port 1RU and 48-port 2RU
- IDC stuffer caps provide termination strain relief

DESIGN CONSIDERATIONS

- Mounts on 19-inch equipment racks
- Panel offered in 24- and 48-port configurations
- Magnifying label holders adjacent to connectors
- One cable management bar included per row

STANDARDS COMPLIANCE

- ANSI/TIA-568-C.2 component requirements for connecting hardware from 1 MHz to 500 MHz
- ISO 11801 Class E_A
- cULus listed
- ANSI/TIA-1096-A
- IEEE 802.3at (Type 1) Power over Ethernet (PoE) applications up to 15.4 watts
- IEEE 802.3at (Type 2) Power over Ethernet (PoE+) applications up to 30 watts
- IEEE Draft 802.3bt/D1.2 (Type 3) Power over Ethernet (PoE+) applications up to 60 watts
- IEEE Draft 802.3bt/D1.2 (Type 4) Power over Ethernet (PoE+) applications up to 100 watts
- Cisco Universal Power Over Ethernet (UPOE) applications up to 60 watts
- Power over HDBaseT™ (POH) applications up to 100 watts

PHYSICAL SPECIFICATIONS

Dimensions:	See page two
Materials :	16-gauge steel, painted black, PCB and plastics components are UL94V-0

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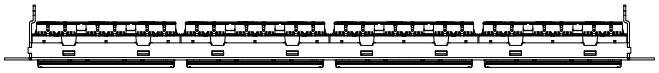
WARRANTY INFORMATION

Note: Limited Product and Limited Extended Warranties are rendered VOID if the installed structured cabling system is used for PoE applications that exceed the product's specified power rating.

For a copy of Leviton product warranties, visit www.leviton.com/warranty.

ELECTRONIC FILES

For CAD files, typical specs, or technical drawings (.DXF, .DWG), visit www.leviton.com.



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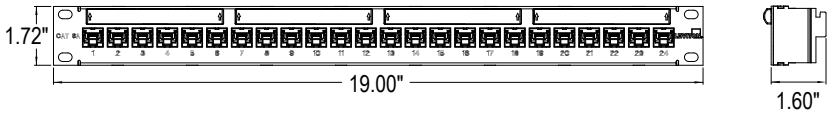

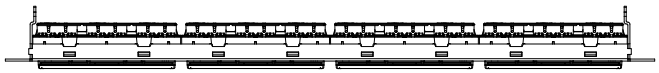

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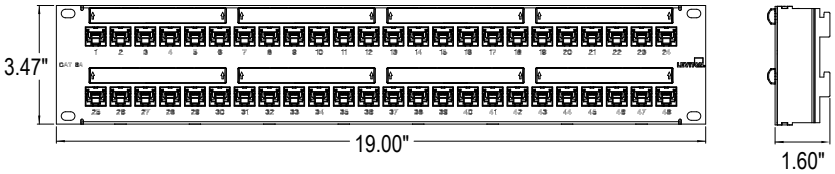

ANSI/TIA-568-C.2 CAT 6A Parameter	Connecting Hardware Requirements* (dB)		
Description	@ 100MHz	@ 250MHz	@ 500MHz
Insertion Loss (IL)	0.20	0.32	0.45
Near-end Crosstalk (NEXT)	54.0	46.0	34.0
Far-end Crosstalk (FEXT)	43.1	35.1	29.1
Return Loss (RL)	28.0	20.0	14.0
Transverse Conversion Loss (TCL)	28.0	20.0	14.0
Transverse Conversion Transfer Loss (TCTL)	28.0	20.0	14.0
Power sum Alien Near-end Crosstalk (PSANEXT)	67.0	62.5	56.5
Power sum Alien Far-end Crosstalk (PSAFEXT)	67.0	59.0	53.0

***Notes:** All requirements are minimum allowable, except IL are maximum allowable.
Connecting hardware shall meet requirements of all parameters from 1-500MHz.
Values in above table are only at specific frequencies and are for reference only.

PART NUMBERS	
Description	Part No.
eXtreme® Cat 6A Flat 110-Style Patch Panel, 1RU, 24-Port, with cable management bar	6A586-U24
eXtreme Cat 6A Flat 110-Style Patch Panel, 2RU, 48-Port, with 2 cable management bars	6A586-U48

H15 5759

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