

Cat 6A Angled 110-Style Patch Panels

APPLICATION

Leviton Cat 6A Angled 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 ANSI/TIA-568-C.2 standard, and the Class E_A component requirements for the ISO 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

The 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 6-pack IDC blocks. The 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. The 110 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 angled 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

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FEATURES

- Independently tested and verified by Intertek (ETL) for Cat 6A component performance
- In-line IDC field is consistent with traditional 4-pair 110-style IDC terminations flexible circuit enhances link and channel performance
- Patented triple-stage compensation design provides industry-leading 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 an 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
- Angled design facilitates proper bend radius

DESIGN CONSIDERATIONS

- Mounts on 19-inch equipment racks
- Panel offered in 24- and 48-port angled configurations
- Magnifying label holders adjacent to connectors
- One cable management bar included per row
- Angled design conserves rack space by routing cords directly into vertical cable management

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 802.3an to support 10GBASE-T networks
- 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

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PHYSICAL SPECIFICATIONS

Dimensions: See page two

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

WARRANTY INFORMATION

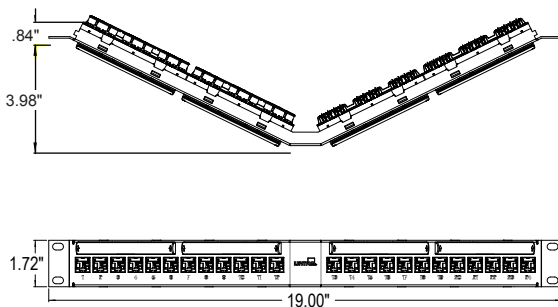
Note: Limited Product and Limited Extended Warranties are rendered VOID if the installed structured cabling system is used for PoE applications that exceed the product's specified power rating.

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

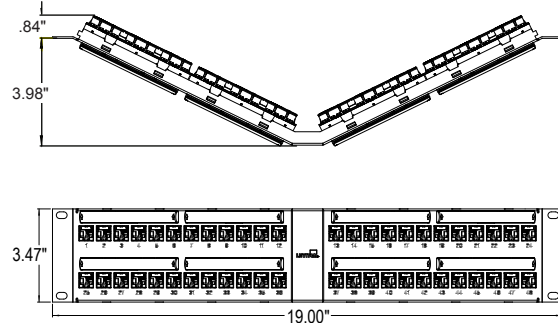
ELECTRONIC FILES

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

6A587-U24, 6A587-U48



6A587-U24



6A587-U48

ANSI/TIA-568-C.2 Cat 6A Parameter	Connecting Hardware Requirements* (dB)		
	@ 100MHz	@ 250MHz	@ 500MHz
Description			
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.
Cat 6A Angled 110-Style Patch Panel, 1RU, 24-Port, with cable management bar	6A587-U24
Cat 6A Angled 110-Style Patch Panel, 2RU, 48-Port, with 2 cable management bars	6A587-U48



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