LEVITON

eXtreme® CAT 6A QuickPort® Connector

APPLICATION

Leviton's eXtreme CAT 6A Connectors exceed all component performance requirements in the ratified TIA-568-B.2-10 standard for Augmented Category 6 from 1 MHz to 500 MHz to support the IEEE 802.3an standard for 10GBASE-T network performance. Each CAT 6A connector is designed to be used with Leviton QuickPort® compatible products and features Leviton's patented Cone of Silence™ to mitigate the adverse effects of alien crosstalk (AXT). Every CAT 6A connector includes Leviton's patented Retention Force Technology (RFT) to promote consistent performance over the life of the system. Pair Separation Towers (PST) designed specifically for CAT 6A cable facilitate quick, easy terminations. The connector is configured in a 180 degree configuration so the punch down field is in the back, allowing for rear terminations.

DESIGN CONSIDERATIONS

- Use in any QuickPort® housing to support 10G UTP connectivity in surface mount, flush mount, or modular furniture outlets and field-configurable panels
- Can be used in conjunction with other QuickPort snap-in modules for voice/data/video applications over UTP, coax, fiber
- To identify ports, use different colored modules for each application (full selection of TIA/EIA-606 compatible colors - 14 available)

SPECIFICATION

The modular connector shall meet or exceed the requirements for component performance defined in TIA-568-B.2-10. The modular connector shall be snap-in style. The connector shall also be in compliance will all National Electrical Codes; compliant with FCC Part 68; cULus Listed; and independently tested for component compliance. In addition to Cat 6A component compliance, the connector shall have the ability to support high megabit and shared sheath applications. All plastics used in construction of the connector bodies shall be fire-retardant with UL flammability rating of 96V-O. All terminations shall use 110-style insulation displacement connectors (IDC). The connector shall provide a ledge directly adjacent to the 110-style termination against which wires can be terminated and cut in one action by the installer. Connector wiring is universal and will accommodate color codes for T568A and T568B wiring schemes. The termination field shall be in the rear for easy access and cable routing. The connector shall include an Alien Crosstalk reducer (Cone of Silence) to protect the termination field from induced noise from adjacent connectors. The modular connector shall fit all Leviton installed telecommunications faceplates, outlets, and field-configurable patch panels. Available in 14 TIA 606-A compatible colors.

FEATURES

- Independently tested and verified by Intertek (ETL) for CAT 6A component performance
- Alien crosstalk suppressed by Cone of Silence, metalized body, and new printed circuit board
- Patent-pending triple-stage compensation design with integrated flexible circuit enhances link and channel performance
- Conductor retention feature holds individual conductors in place during termination
- Pair Separation Tower (PST) design facilitates separation of CAT 6A conductors
- Retention Force Technology (RFT) protects against tine damage from 4- or 6-pin plugs
- Patent-pending dual-layer wiring label simplifies punchdown and reduces rework
- Snap-in installation into any of Leviton's broad line of QuickPort footprint patch panels, wallplates, and housings
- Cable entry can be 90˚ or 180˚ to fit any application

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STANDARDS COMPLIANCE

- TIA 568-B.2-10 component requirements for connecting hardware from 1 MHz to 500 MHz
- ISO 11801 Class Ea
- IEEE 802.3an to support 10GBASE-T networks
- cULus listed

PHYSICAL SPECIFICATIONS

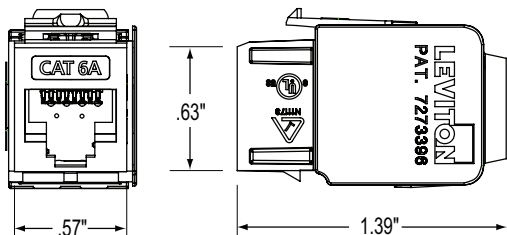**Materials - Connector Body / Cone of Silence:**
High-impact, fire-retardant plastic rated UL 94V-0 with copper and nickel plating

Materials - Spring Wire Contacts:
High-quality, copper-based alloy, plated with 50 micro-inches of gold for lowest contact resistance and maximum life

WARRANTY INFORMATION

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

TIA-568-B.2-10 CAT6A Parameter	Connecting Hardware Requirements* (dB)		
	@ 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 and DC Resistance 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.

ELECTRONIC FILES

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

CAT 6A

.63"

.57"

1.39"

LEVITON PAT. 7273396

PART NUMBERS

Description	Part No.
eXtreme CAT 6A QuickPort Connector	6A10G-Rx6

x = Connector Colors: White (W), Light Almond (T), Almond (A), Ivory (I), Yellow (Y), Orange (O), Crimson (C), Dark Red (R), Purple (P), Blue (L), Green (V), Grey (G), Black (E), Brown (B)

L11 3924

ETL

ISO 9001 REGISTERED Quality Manufacturer

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