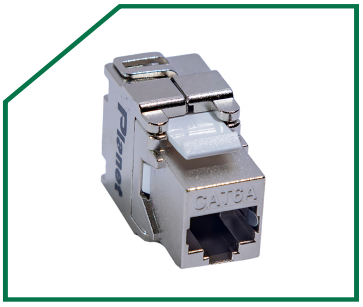
Planet
Structure Cabling Systems

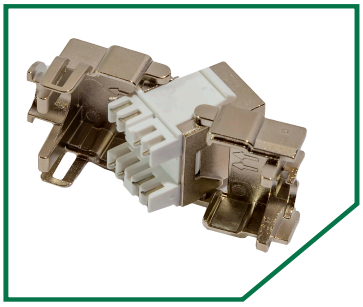
Cat.6A STP Toolless Keystone Jack 180°

Keystone Jack

Part Number:

PL-KE6ASTL





FEATURES

- Category 6A shielded toolless keystone jack with 180° cable entry, specified for 1 to 500 MHz shielded channel applications.
- Compatible with S/FTP cabling when conductor construction, insulation diameter, overall cable diameter, pair-screen handling and overall-shield termination follow the approved production drawing and installation instruction.
- T568A and T568B color-coded termination; accepts 23&24 AWG solid copper conductors . CCA and CCS conductors are not accepted.
- Zinc-alloy shield housing, flame-retardant PC insert rated UL 94 V-0 and FR-4 printed circuit board.
- RJ45 mating contacts use nickel underplate and gold plating in the mating-contact area: 15 microinch standard; 30 or 50 microinch available as ordering options.
- Minimum 750 RJ45 mating cycles; permitted retermination cycles and conductor-reuse limitations shall follow the released qualification report.
- Category 6A transmission and shield-continuity performance shall be confirmed for the released PL-KE6ASTL configuration by independent component testing through 500 MHz.
- Suitable for 10GBASE-T and IEEE 802.3 remote-powering applications only when the complete installed channel passes application, resistance-unbalance, current-carrying and thermal validation.

APPLICATIONS

- 10GBASE-T, 5GBASE-T and 2.5GBASE-T over a compliant complete Category 6A shielded channel
- 1000BASE-T, 100BASE-TX and 10BASE-T
- Voice and IP telephony
- IEEE 802.3 remote-powering applications, subject to released connector and complete-channel verification

REFERENCE STANDARDS

- ANSI/TIA-568.2-E - Category 6A balanced twisted-pair cabling and components
- ISO/IEC 11801-1:2017 (including Amd 1:2025 and its Cor 1:2025) - Category 6A / Class EA
- EN 50173-1:2018 - Category 6A / Class EA generic cabling
- IEC 60603-7-51:2010 - Shielded 8-way connectors up to 500 MHz
- IEEE 802.3-2022 - Ethernet and remote-powering application compatibility
- IEC 60512-99-002:2022 + Amd 1:2025 - PoE unmating endurance under electrical load

GOLD PLATING CONFIGURATION

STANDARD	OPTION	OPTION
15 microinch 0.38 micrometre	**30 microinch** 0.76 micrometre	**50 microinch** 1.27 micrometre

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CHARACTERISTICS

Property	Specification
Category / bandwidth	Category 6A connecting hardware; 1-500 MHz; shielded channel use
Shield housing / interface	Zinc alloy; finish, 360° overall-shield contact, pair-screen handling and bonding interface per approved production drawing and installation instruction
Insert / PCB	Flame-retardant polycarbonate (PC), UL 94 V-0 material rating / FR-4, 1.2 mm
RJ45 contact	Phosphor bronze, stamped thickness 0.35 mm; 50-60 microinch nickel underplate
Gold contact area	RJ45 mating-contact area only: minimum 3 mm contact length; 15 microinch (0.38 micrometre) gold standard
Optional gold plating	RJ45 mating-contact area: 30 microinch (0.76 micrometre) or 50 microinch (1.27 micrometre)
IDC terminal	Phosphor bronze, 0.50 mm; nickel underplate with lead-free tin finish; 110-compatible IDC profile only where permitted by the approved installation instruction
Cable compatibility	23&24 AWG solid copper conductors ; CCA/CCS excluded; conductor, insulation and overall cable diameters per approved drawing
Wiring scheme	T568A and T568B color coding
Electrical rating	Declared connector rating: 125 VAC RMS, 1.5 A; released report shall identify the current basis, contact loading and test conditions
Contact resistance	Maximum 20 milliohm; released test result required
Insulation resistance	Minimum 100 megohm at 500 VDC; released test result required
Dielectric strength	750 VAC RMS, 60 Hz for 1 minute; released test result required
Environment	Operating: -10°C to +60°C; storage: -40°C to +70°C
Durability	RJ45: minimum 750 mating cycles; IDC retermination limit and post-cycle electrical criteria shall follow the released qualification report
Component qualification	Independent component report to ANSI/TIA-568.2-E and IEC 60603-7-51 through 500 MHz; test setup, samples, limits and PASS margins identified
Shield continuity	Verify continuity from the cable overall shield through the jack enclosure to the shielded plug and patch panel using the approved bonding method

MANDATORY CAT.6A CABLE / LINK VALIDATION

Complete-cable / installed-link check	Required record
DC loop resistance	Maximum 18.76 ohm/100 m at 20°C (9.38 ohm/100 m per conductor)
Mutual capacitance	Maximum 5.6 nF/100 m at 1 kHz
Propagation delay	Maximum 538 ns/100 m; report the measurement frequency and test configuration
Delay skew	Maximum 45 ns/100 m

PL-KE6ASTL RELEASE CONTROLS

Control	Required release evidence
Transmission performance	Independent component report through 500 MHz covering insertion loss, return loss, NEXT, FEXT/ACR-F, TCL/TCTL and applicable power-sum parameters; identify instrument, adapters, samples, limits and worst-case PASS margins.
Shielding / bonding	Verify 360° continuity from the cable overall shield through the jack enclosure to the shielded plug and patch panel; document screen contact, enclosure finish and the approved bonding path.
Pair-screen handling	The released installation instruction shall define pair-foil preparation and separation; the enclosure bond shall use the approved overall-shield contact and any pair-foil contact points specifically identified by the released design.
Electrical integrity	Released evidence shall confirm the declared voltage/current rating, contact resistance, insulation resistance and dielectric strength using identified test methods and loading conditions.
Cable / mechanical interface	Approved drawing shall define 24 AWG solid-copper construction, conductor and insulation diameters, cable OD, preparation, retention, dimensions, tolerances and faceplate/patch-panel compatibility; CCA/CCS are excluded.
Remote powering	Where PoE is claimed, verify resistance unbalance, current-carrying capacity, temperature rise and unmating under electrical load for the released connector and complete shielded channel.
Ordering traceability	Ordering codes, drawings and reports shall distinguish the standard 15 microinch contact finish from the optional 30 and 50 microinch versions.

COMPLIANCE NOTES

- Gold thickness applies to the RJ45 mating-contact area only; the IDC uses a separate lead-free tin finish over nickel.
- 10GBASE-T, 5GBASE-T, 2.5GBASE-T and PoE support depends on the validated complete installed channel and is not a standalone keystone rating.
- Shield continuity and bonding effectiveness shall be verified using the approved S/FTP cable, shielded plug, patch panel and grounding method.
- UL 94 V-0 identifies the flammability rating of the insert material; it does not by itself represent a UL product listing.
- RoHS conformity shall be supported by the released material declarations for the production bill of materials.
- Category 6A compliance applies only to the released PL-KE6ASTL construction represented by the approved drawing and matching test report.

PERFORMANCE DOCUMENTATION: Detailed electrical performance test reports and compliance documentation for the released product configuration are available upon request.

Packing 1pc / PE bag

BOX	50 PCS
Carton	500 PCS