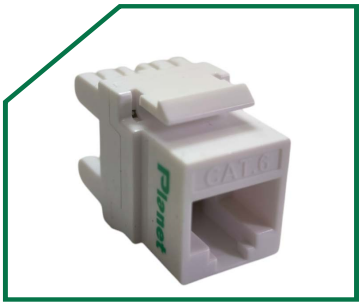
Planet
Structure Cabling Systems

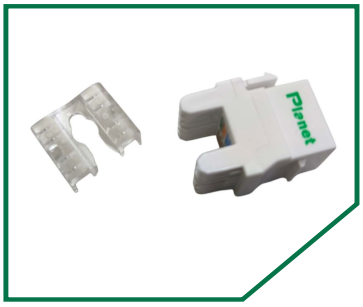
Cat.6 UTP Keystone Jack 180°

Keystone Jack

Part Number:

PL-KE6UPD





FEATURES

- Category 6 unshielded 180° punch-down keystone jack for 1 to 250 MHz Class E / U/UTP channel applications.
- T568A and T568B color coding with 110-type impact-tool termination and 180° cable entry.
- 23&24 AWG solid copper conductor compatibility as standard; 26 AWG Slim solid copper is an ordering option for approved cable constructions.
- CCA and CCS conductors are excluded; conductor diameter and insulation outside diameter shall match the released termination drawing.
- RJ45 mating contacts use nickel underplate with 15 microinch gold standard; 30 or 50 microinch gold are optional contact finishes.
- Lead-free tin-over-nickel IDC contact finish; gold plating applies only to the RJ45 mating-contact area.
- Minimum 750 RJ45 mating cycles and operating temperature from -30°C to +70°C for the released product configuration.
- Category 6 component transmission performance shall be supported by a released report through 250 MHz.

APPLICATIONS

- 1000BASE-T, 100BASE-TX and 10BASE-T Ethernet
- Voice and IP telephony
- 2.5GBASE-T and 5GBASE-T when the complete installed Category 6 channel is validated
- IEEE 802.3af/at/bt PoE Types 1-4 when the released connector and complete channel pass electrical and thermal verification

REFERENCE STANDARDS

- ANSI/TIA-568.2-E:2024 - Category 6 balanced twisted-pair cabling and components
- ISO/IEC 11801-1:2017 including Amd 1:2025 and Cor 1:2025 - Category 6 / Class E
- EN 50173-1:2018 - Category 6 / Class E generic cabling
- IEC 60603-7-4:2010 - Unshielded 8-way connectors up to 250 MHz
- IEEE 802.3-2022 and applicable amendments - Ethernet and remote powering
- IEC 60512-99-002:2022 + Amd 1:2025 - Unmating under electrical load

RJ45 GOLD PLATING CONFIGURATION

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

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CHARACTERISTICS

Property	Specification
Product type	Category 6 UTP 180° punch-down keystone jack; 8P8C modular interface
Category / bandwidth	Category 6 connecting hardware; 1-250 MHz; Class E / U/UTP system use
RJ45 housing	High-impact polycarbonate (PC); UL 94 V-0 material rating for the released resin grade
IDC housing	High-impact polycarbonate (PC); T568A/B color-coded termination identification
RJ45 contact material	Phosphor bronze with 50-60 microinch (1.27-1.52 micrometre) nickel underplate
Gold-plated contact area	Minimum 3 mm plated contact length; 15 microinch (0.38 micrometre) gold standard
Optional gold plating	30 microinch (0.76 micrometre) or 50 microinch (1.27 micrometre) gold
IDC terminal	Phosphor bronze with nickel underplate and lead-free tin finish; 110-type punch-down profile
Standard cable interface	23&24 AWG solid copper conductor; approved conductor and insulation diameters per released drawing
Optional Slim interface	26 AWG Slim solid copper conductor, only for the qualified cable construction and ordering code
Excluded conductors	Copper-clad aluminium (CCA) and copper-clad steel (CCS)
Wiring scheme	T568A and T568B
Insertion force	Maximum 8.8 N (approximately 900 gf) for 8 contacts, subject to released mechanical verification
Plug retention	Minimum 75.5 N (approximately 7.7 kgf) with a compatible plug, subject to released verification
Operating temperature	-30°C to +70°C
RJ45 durability	Minimum 750 mating cycles; post-cycle contact performance verified by the released test plan
IDC retermination	Capability and permitted reuse governed by the released qualification report and installation instruction
Environmental	Lead-free IDC finish and RoHS-compliant released material set

CONDUCTOR COMPATIBILITY

Configuration	Conductor	Control
Standard configuration	24 AWG solid copper	Released PL-KE6UPD standard ordering code
Slim option	26 AWG Slim solid copper	Separate approved ordering code; cable conductor and insulation geometry must match the qualification
Not permitted	CCA / CCS	Do not terminate copper-clad aluminium or copper-clad steel conductors

PL-KE6UPD RELEASE CONTROLS

Control	Required release evidence
Transmission performance	Released component report through 250 MHz covering insertion loss, return loss, NEXT, FEXT/ACR-F and applicable power-sum parameters; identify samples, test setup, limits and worst-case PASS margins.
Electrical integrity	Released report shall state contact resistance, insulation resistance, dielectric strength and rated voltage/current using identified test methods.
Cable interface	Approved drawing shall define conductor diameter, insulation diameter, preparation and permitted termination method for the 24 AWG standard and 26 AWG Slim option.
Mechanical interface	Released verification shall cover dimensional compatibility, plug retention, insertion force, RJ45 mating durability, cable retention and IDC retermination limits.
Remote powering	Where PoE is claimed, verify resistance unbalance, current capacity, temperature rise and unmating under electrical load for the released connector and complete channel.
Compliance claims	RoHS, UL material rating and any third-party certification mark shall be used only when current evidence covers the exact released material and product configuration.
Ordering traceability	Ordering codes shall distinguish 24 AWG / 26 AWG compatibility and the 15, 30 and 50 microinch RJ45 gold-plating versions.

COMPLIANCE NOTES

- Category 6 / Class E performance applies only to the released PL-KE6UPD construction represented by the approved drawing and matching component report.
- 2.5GBASE-T, 5GBASE-T and PoE support depends on the validated complete installed channel and is not a standalone keystone rating.
- UL 94 V-0 identifies a plastic-material flammability rating; it does not by itself represent a UL product listing.
- Gold thickness applies to the RJ45 mating-contact area; IDC contacts use a lead-free tin finish over nickel.

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