

Part Number:

PL-KE3UJ



FEATURES

- Category 3 unshielded 90° keystone jack for 1 to 16 MHz Class C voice and low-speed data cabling applications.
- 8-position modular interface populated with four contacts; the approved pin assignment governs application compatibility.
- Dual IDC termination accepts 110 or Krone-style impact tools when permitted by the released installation instruction.
- Accepts 22-26 AWG solid copper conductors; CCA and CCS conductors are excluded. Stranded conductors require separate qualification.
- Compact keystone form factor for compatible unloaded faceplates and patch panels; final fit is controlled by the released dimensional drawing.
- High-impact polycarbonate housing with UL 94 V-0 material rating for the released resin grade.
- Modular mating contacts use 50 microinch gold over nickel; IDC contacts use the released nickel-plated phosphor-bronze construction.
- Minimum 750 modular mating cycles; Category 3 transmission performance shall be supported by a released component report through 16 MHz.

APPLICATIONS

- Analogue telephone, PBX, intercom and two-pair voice services
- Low-voltage signalling within the published electrical ratings
- 10BASE-T only when the released four-contact pin assignment provides the required two pairs and the complete Class C channel is validated
- Not specified for 100BASE-TX, 1000BASE-T or higher-speed Ethernet applications

REFERENCE STANDARDS

- ANSI/TIA-568.2-E:2024 - Category 3 balanced twisted-pair cabling and components
- ISO/IEC 11801-1:2017 including Amd 1:2025 and Cor 1:2025 - Category 3 / Class C
- EN 50173-1:2018 - Category 3 / Class C generic cabling
- IEC 60603-7:2020 - 8-way unshielded free and fixed connector interface and tests
- IEC 60512-1:2018 - Generic connector tests and measurements
- IEEE 802.3-2022 - 10BASE-T application reference where the pin assignment and complete channel are compatible

CONTACT CONFIGURATION

INTERFACE	MATING AREA	IDC CONTACT
8-position 4 fitted contacts	50 microinch gold 1.27 micrometre	100 microinch nickel 2.54 micrometre minimum

CHARACTERISTICS

Property	Specification
Product type	Category 3 UTP 90° keystone jack; unshielded modular interface
Category / bandwidth	Category 3 connecting hardware; 1-16 MHz; Class C system use
Interface / contacts	8-position modular jack with 4 fitted contacts; pin assignment per released drawing
Housing	High-impact polycarbonate (PC); UL 94 V-0 material rating for the released resin grade
Mating-contact material	Phosphor bronze with nickel underplate
Gold-plated contact area	50 microinch (1.27 micrometre) gold over nickel in the modular mating area
IDC contacts	Phosphor bronze with minimum 100 microinch (2.54 micrometre) nickel plating, per released BOM
Conductor compatibility	22-26 AWG solid copper; conductor and insulation diameters per released termination drawing; CCA/CCS excluded
Termination method	110 or Krone-style impact tool, subject to the released installation instruction
Dielectric strength	1000 V RMS for 1 minute, subject to released test verification
Current rating	1.5 A maximum per contact, subject to released test verification
Insulation resistance	Minimum 10 megohm; test voltage and environmental conditions shall be stated in the released report
Initial contact resistance	2 milliohm nominal per contact; the released report shall state the maximum acceptance limit
Operating temperature	-10°C to +60°C
Relative humidity	10% to 90%, non-condensing
Mating durability	Minimum 750 insertion/removal cycles; post-cycle contact performance verified by the released test plan
IDC retermination	Permitted reuse and cycle limit governed by the released qualification report and installation instruction
Environmental	RoHS-compliant released material set

CONDUCTOR COMPATIBILITY

Status	Conductor	Control
Qualified range	22-26 AWG solid copper	Conductor and insulation geometry must match the released termination drawing
Conditional	Stranded copper	Do not claim compatibility unless the exact construction is included in the released IDC qualification
Not permitted	CCA / CCS	Do not terminate copper-clad aluminium or copper-clad steel conductors

PL-KE3UJ RELEASE CONTROLS

Control	Required release evidence
Transmission performance	Released component report through 16 MHz covering the applicable Category 3 insertion-loss, return-loss, NEXT and related limits; identify samples, test setup, limit set and worst-case PASS margins.
Pin assignment	Approved drawing shall identify the four fitted contacts and permitted service pinout. Application claims shall match the released contact population.
Electrical integrity	Released report shall confirm dielectric strength, current rating, insulation resistance and contact-resistance acceptance limits using identified test methods and conditions.
Mechanical interface	Released verification shall cover keystone dimensions, compatible faceplates/panels, tool type, mating durability, cable retention and permitted IDC retermination cycles.
Material declarations	Released BOM shall identify housing resin, UL 94 material rating, contact materials and plating thicknesses, with current RoHS declarations.
Certification claims	ETL, UL or other third-party marks shall appear only when a current certificate or listing covers the exact PL-KE3UJ released configuration.
Ordering traceability	Ordering records shall identify the four-contact pin assignment, contact finish and approved 22-26 AWG cable interface.

COMPLIANCE NOTES

- Category 3 / Class C performance is limited to 16 MHz and applies only to the released PL-KE3UJ construction represented by the approved drawing and matching report.
- The four-contact pin assignment governs supported voice and low-speed data services; the connector shall not be presented as an 8-contact Ethernet jack.
- 100BASE-TX, 1000BASE-T and higher-speed Ethernet claims have been removed because they are outside Category 3 / Class C capability.
- The 1.5 A contact rating is an electrical rating and does not by itself establish PoE compatibility.
- UL 94 V-0 is a plastic-material rating, not a UL product listing; gold thickness applies to the modular mating-contact area.

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