



JKC6AUTP-6 & JKC6AUTP-24

Technical Overview

The CERTECH Cat 6A RJ45 unshielded keystone jack is designed to terminate unshielded twisted pair (U/UTP) Cat 6A cable (23-26AWG). With rear-facing IDCs and a rapid termination tool, terminations are fast, consistent and straightforward. This ensures consistent, reliable performance with every termination. The robust cable retention cap allows for the incoming cable to be positioned as a side or rear entry, enabling the jack to be utilised in challenging site conditions with limited space, such as tight cavities and floor boxes.

When paired with CERTECH Cat 6A U/UTP cable and installed by a CERTECH Certified Installer according to the CERTECH quality plan, the permanent links exceed the performance criteria outlined in AS 11801:2019 (Parts 1–6) and are backed by the CERTECH 25-Year System Performance Warranty.

Compliance and Certification

AS/CA S008:2020 (Australian Standard)	Requirements for customer cabling products (the manufacturing rules)
AS/CA S009:2020 (Australian Standard)	Installation requirements for customer cabling (the wiring rules)
AS 11801:2019 Series (Parts 1–6) (Australian Standard)	Information technology - Generic cabling for customer premises (structured cabling performance standard)
ANSI/TIA-568.2-E	Balanced Twisted-Pair Telecommunications Cabling and Components
IEC 60603-7	Requirements for 8-way modular RJ45 connectors, covering mechanical, electrical, and environmental performance
UL 1863, ETL, DELTA	This product is safety certified (UL 1863, ETL) and independently performance-verified (DELTA Verified)
RoHS, REACH & TSCA	Compliant with global substance regulations (RoHS, REACH, TSCA)
Fluke DSX CableAnalyzer™ Compatible	CERTECH Cat 6A cables are selectable within the Fluke DSX Series (firmware v6.8+)



Product

Product Code JKC6AUTP-6

Description

CERTECH Cat 6A Unshielded Keystone Jack, Punch Down/ Rapid Tool Termination, Rear Entry – 6pc Pack.

Colour Black

Product Code JKC6AUTP-24

Description

CERTECH Cat 6A Unshielded Keystone Jack, Punch Down/ Rapid Tool Termination, Rear Entry – 24pc Pack.

Colour Black

Key Features

- ✓ **Rapid Termination** – Using the Rapid Termination tool for faster installation and consistent termination quality
- ✓ **Rear Facing IDC's** – For ease of termination and accessibility
- ✓ **Short base design** – For tight cavities and confined spaces
- ✓ **Side or Rear Cable Exit** – For flexible cable entry in confined spaces
- ✓ **UL Listed, DELTA and ETL Verified, RoHS, REACH, and TSCA compliant**





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Applications

The CERTECH Cat 6A Unshielded Keystone Jack is engineered for performance in environments with minimal electromagnetic interference (EMI), supporting 10GBASE-T Ethernet 10GBASE-T (backwards compatible to 1000BASE-T and 100BASE-TX), HDBaseT, and advanced PoE++ (up to 100W). Compliant with AS 11801:2019 (Parts 1-6), ANSI/TIA-568.2-E, ISO/IEC Class EA, and IEEE 802.3bt, it delivers high-speed performance and long-term reliability for a broad range of structured cabling installations. A shielded solution is recommended for environments with higher levels of EMI and potential ingress of noise.

Ideal for use in environments where shielding is not required, including:

Commercial Buildings & Offices

Reliable performance, supporting Wi-Fi, VoIP, video conferencing, and high-speed data access

Educational Institutions

Ideal for classrooms, libraries, and staff areas - delivering 10 Gigabit per second throughput capacity to enable digital learning and device connectivity

Retail & Hospitality

Supports transactional systems, digital signage, guest Wi-Fi, and surveillance systems

Residential & MDU Projects

Cost-effective, high-performance cabling for smart homes, home offices, and multi-dwelling units (MDUs)

Enterprise Campuses

Suitable for standard floor-by-floor reticulation and workstation connectivity in low-EMI building environments

Wireless Access Points (WAPs)

Reliable network performance as required by AS/CA 11801.6 (distributed building services) for Wi-Fi 6/6E and Wi-Fi 7 backhaul in ceiling or wall-mounted deployments where EMI is not a concern

PoE & PoE++ Applications

Certified for safe power over ethernet delivered via structured cabling. Ideal for powering IP cameras, access control, wireless access points, and PoE lighting as per IEEE 802.3bt

Structured Cabling Backbone

Supports backbone and horizontal cabling from the building/campus distributor to the telecommunications outlets

This solution ensures your structured cabling investment can reliably support the data transmission, bandwidth, and power requirements of today, and tomorrow.

How to Specify

Specify CERTECH JKC6AUTP Category 6A Unshielded RJ45 Keystone Jack compliant with AS/CA S008:2020, AS 11801:2019 (Parts 1-6), ANSI/TIA-568.2-E, and IEC 60603-7-15. The jack must support 10GBASE-T transmission at speeds of 10 Gbps over a 100-metre channel or 90-metre permanent link and be capable of operating at up to 500MHz bandwidth.

The keystone jack must include the following features:

- Installer-friendly termination utilising a Rapid Termination Tool for ease of installation and long-term reliability.
- Jacks must be available to accept incoming cable from the rear or either side of the jack for tight cavities and spaces.
- UL-listed, ETL/DELTA verified, and RoHS, REACH, and TSCA compliant.
- Supplied in sustainable packaging designed in line with the Australian Packaging Covenant's (APCO) Sustainable Packaging Guidelines (SPGs).

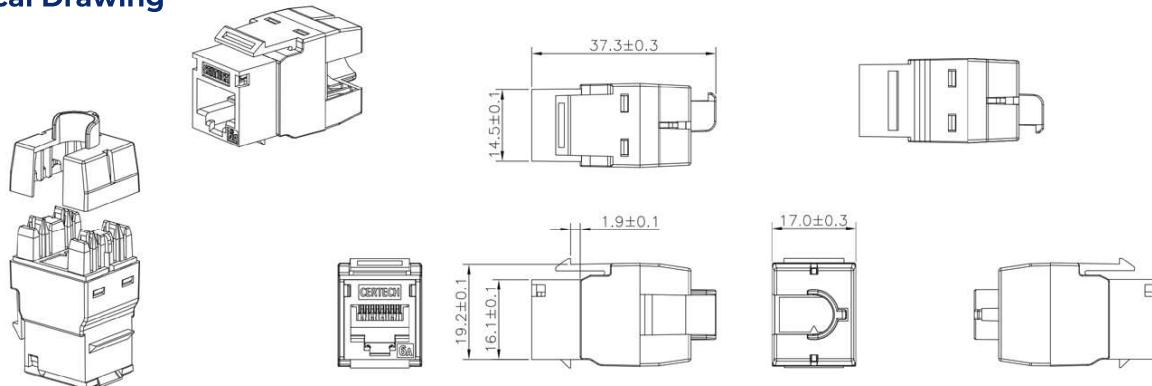
The structured cabling system must be installed using CERTECH Category 6A cable by a CERTECH Certified Installer and shall be covered by the CERTECH 25-Year System Performance Warranty. All telecommunications outlets must be third-party verified by a NATA accredited authority.



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Mechanical Performance	Transmission & System Performance	Construction
Plug Insertion Cycles 750 for RJ45 & 200 for RJ11 Plug Retention Force $\geq 50\text{N}$ Re-termination Capability 20 times Wire Gauge 23-26 AWG (Solid) Termination method Rapid termination tool (JKRAPID-C6A) or 110 tool (CTPDKR110) Wiring Configuration T568A / T568B (Generally T568A for Australia)	Performance Category Cat 6A (Class EA) PoE Support IEEE 802.3bt Type 4, 4PPoE. PoH up to 100W PoE Durability ≥ 750 cycles PoE load Supported Cable Types U/UTP Plug Compatibility RJ45, (8P8C), RJ11 (6P2C)	Jack Body Material ABS PC V IDC Housing: PC FR Contact Base Material Phosphor Bronze Contact Plating $50\mu\text{m}$ Gold over Nickel Shielding No Entry Orientation Configurable for rear or side entry
Electrical Performance	Environmental Performance	Installation and Termination
Current 1.5A Dielectric Withstand Voltage 1000V AC (60 Hz) Insulation Resistance $\geq 500\text{ M}\Omega$ Contact Resistance $\leq 20\text{ M}\Omega$	Operating Temperature -10°C to $+60^\circ\text{C}$ Storage Temperature -40°C to $+85^\circ\text{C}$ Flame Rating UL94 V-0 Compliance RoHS, REACH, TSCA	Tool Requirements Flush cutters (CTFLUSH), cable stripper (CTSTRIPD), and Rapid Termination Tool (JKRAPID-C6A) or 110 tool (CTPDKR110) Termination Method Rapid termination (JKRAPID-C6A) or 110 punch down (CTPDKR110) Colour Code T568A and T568B wiring scheme on jack label (Generally T568A for Australia)

Technical Drawing





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Tools and Accessories

Telecommunications Outlet Options – Field End	
JKBEZ10	Bezel to suit Clipsal Style 30 Series/HPM Face Plates
JKBEZPRO10	Bezel to suit Clipsal Style 40 Series (Iconic/PRO) Face Plates
SMB-1P	Single Port Surface Mount Box for Keystone Jacks
SMB-2P	Dual Port Surface Mount Box for Keystone Jacks
SMB4P	Four Port Surface Mount Box for Keystone Jacks
SMB6P	Six Port Surface Mount Box for Keystone Jacks
SMB8P	Eight Port Surface Mount Box for Keystone Jacks

Telecommunications Outlet Mounting Options – Rack End	
PP24UKSH-NL	CERTECH 1RU 19" 24 Port Patch Panel Suitable for STP & UTP Applications, with Rear Support Bar
PP24UKANG	CERTECH 1RU 19" 24 Port Angled Unloaded Patch Panel Suitable for STP & UTP Applications, with Rear Support Bar

Essential Accessories – Termination, Cutting & Stripping Tools	
CTFLUSH	Flush Cutting Pliers
CTSTRIPD	Adjustable UTP/STP Cable Stripper & Cutter
CTPDKR110	110 Punch Down Tool (optional)
JKRAPID-C6A	Rapid Termination Tool for CERTECH Cat 6A UTP Keystone Jacks (preferred)

Logistics

JKC6AUTP-6 (6pc Pack)	
Packaged Weight	89g
Packaged Dimensions	130mm x 90mm x 30mm
Carton Quantity	72
Carton Dimensions	410mm x 330mm x 220mm
Barcode	329522546

JKC6AUTP-24 (24pc Pack)	
Packaged Weight	292g
Packaged Dimensions	430mm x 90mm x 30mm
Carton Quantity	24
Carton Dimensions	460mm x 300mm x 290mm
Barcode	329522551

Warranty

- 2-year Product Warranty
- Eligible for the **CERTECH 25-Year System Performance Warranty** when installed as part of a CERTECH structured cabling system by a CERTECH-Certified Installer and tested using approved methods such as the Fluke DSX CableAnalyzer™

Sustainability

Packaging

Supplied in sustainable packaging designed in line with the Australian Packaging Covenant's (APCO) Sustainable Packaging Guidelines (SPGs)

Product Longevity

Minimum expected life of 25+ years, backed by the CERTECH 25-Year System Performance Warranty

Materials

No single-use plastic packaging