CERTECH
CERTIFIED TECHNOLOGIES

Technical Specification

JKC6AUTP-6 (6pc Pack)
JKC6AUTP-24 (24pc Pack)

Description

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

Colour

Black

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.

How to Specify

Specify **CERTECH JKC6AUTP Cat 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 structured cabling system must be installed using CERTECH Cat 6A cable by a CERTECH Certified Installer and shall be covered by the CERTECH 25-Year System Performance Warranty.

All telecommunications outlets must be designed, installed and tested to pass in accordance with recognised Australian and international standards.

Key Features

Rapid Termination
Using the Rapid Termination tool for faster installation and consistent termination quality

Rear Facing IDCs
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

Applications

The CERTECH Cat 6A Unshielded Keystone Jack is engineered for performance in environments with minimal electromagnetic interference (EMI), supporting 10GBASE-T Ethernet, 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.

Mechanical Performance

Plug Insertion Cycles
750 for RJ45 & 200 for RJ11

Plug Retention Force
≥ 50N

Re-termination Capability
20 times

Wire Gauge
23-26 AWG (Solid)

Cable Diameter Supported
6 to 9mm

Wiring Configuration
T568A / T568B (Generally T568A for Australia)

Construction

Jack Body Material
ABS PC V

IDC Housing
PC FR

Contact Base Material
Phosphor Bronze

Contact Plating
50µ" Gold over Nickel

Shielding
No

Entry Orientation
Configurable for rear or side entry

Transmission & System Performance

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

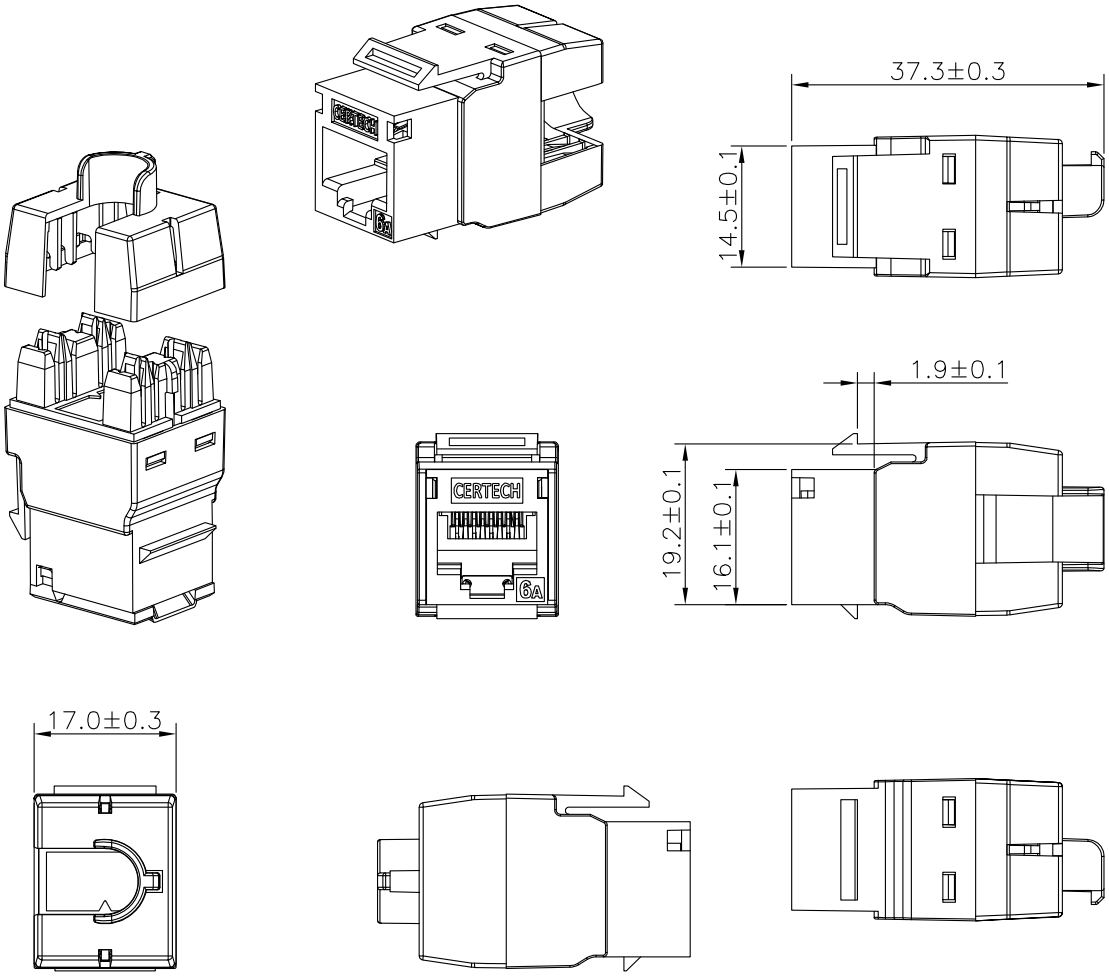
Plug Compatibility
RJ45 (8P8C), RJ11 (6P2C)

Installation & Termination

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
(Generally T568A for Australia)



Electrical Performance

Current
1.5A

Dielectric Withstand Voltage
1000V AC (60Hz)

Insulation Resistance
≥ 500MΩ

Contact Resistance
≤ 20MΩ

Environmental Performance

Operating Temperature
-10°C to +60°C

Storage Temperature
-40°C to +85°C

Flame Rating
UL94 V-0

Compliance
RoHS, REACH, TSCA

Tools and Accessories

Telecommunications Outlet Options – Field End	
JKBEZ10	White Bezel to Suit Clipsal Style 30 Series (2000, C2000), Zetr, Hager Hybrid Plates
JKBEZ10-BKZ	Black Bezel to Suit Clipsal Style 30 Series (2000, C2000), Zetr, Hager Hybrid Plates
JKBEZPRO10	White Bezel to Suit Clipsal Style 40 Series (Iconic, Pro) Plates
JKBEZPRO10-BKZ	Black Bezel to Suit Clipsal Style 40 Series (Iconic, Pro) Plates
SMB-1P	Single Port Surface Mount Box for Keystone Jacks
SMB-2P	Dual 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)	JKC6AUTP-24 (24pc Pack)
Packaged Weight	89g	292g
Packaged Dimensions	130mm x 90mm x 30mm	430mm x 90mm x 30mm
Carton Quantity	72	24
Carton Dimensions	410mm x 330mm x 220mm	460mm x 300mm x 290mm
Barcode	329522546	329522551

Compliance & 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 60603-7-15
Requirements for 8-way modular RJ45 connectors, covering mechanical, electrical, and environmental performance

UL 1863, ETL, DELTA Verified
This product is safety certified (UL 1863, ETL) and independently performance-verified (DELTA Verified)

RoHS, REACH & TSCA Compliant
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+)

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

Warranty

5-Year Limited 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 according to the CERTECH quality plan using the Fluke DSX CableAnalyzer™

25 SYSTEM PERFORMANCE WARRANTY YEAR

APCO AUSTRALIAN PACKAGING COVENANT ORGANISATION MEMBER

Box arl.org.au

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