

PowerCat 6A UTP Keystone Jack Gen II and Compatible 4 Pair Termination Tool >

The Molex PowerCat 6A UTP Keystone Jack Gen II is a key component of the PowerCat 6A Unshielded Solution.

The product is designed to comply with the transmission performance of ANSI/TIA-568.2-D:2018 and ISO/IEC 11801:2017 Augmented Category 6A. The Keystone Jack design is a popular, universal dimension that fits into a wide range of wall outlet and enclosure products. The PowerCat 6A UTP jack is designed to achieve the high level of functionality required for high-speed 10 Gbps data transmission. The product is also backward compatible with Category 6 and 5e systems. The Category 6A UTP Keystone Jack is 3rd party tested and verified for transmission performance, safety and PoE+ compliance.

The C6A UTP Keystone Jack Gen II is designed to be terminated by 4 Pair Termination Tool designed specifically for compatibility with the the Gen II C6A UTP jack. The tool is a robust, reliable product offering fast, fault-less gas-tight termination of all four pairs of solid cable simultaneously.

The C6A UTP Keystone Jack Gen II Termination tool is supplied with a cutting blade module installed and a spare replacement blade module.



FEATURES AND ADVANTAGES

PowerCat 6A UTP Keystone Jack Gen II:

Popular Keystone Design

568A or 568B wiring options

Rear metal cable retention cap provides alien crosstalk protection

Transmission Performance independently verified

Designed for high-speed transmission performance

Can be terminated with industry standard 110 tool or Keystone Jack 4-Pair Termination Tool

Compatible with Molex range of Keystone Jack work area outlets and patch panels

4-Pair Termination Tool:

The Keystone Jack 4 Pair Tool provides fast, fault-less termination

Cutting blade module and spare supplied with each tool for long termination life

Ergonomic Tool Handle design for comfortable repeat operation

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SPECIFICATIONS

C6A UTP KEYSTONE JACK

Mechanical

RJ45 Connector Operating Life:

750 insertion cycles

Contact Material:

Phosphor Bronze alloy plated with 50µ" Gold

IDC Contacts: Phosphor Bronze alloy

IDC Housing: Thermoplastic, UL 94V-0

Wire Range: 22 to 24 AWG Solid

Plug Compatibility: RJ45 and RJ11

Operating Temperature: -40 to +60°C

Cable Retention Cap:

Interior: Thermoplastic UL94V-0

Exterior: Zinc Alloy

Environmental Standards

RoHS compliant

REACH compliant

Electrical

Insulation Resistance:

500MΩ min. at 100V DC

Dielectric Withstanding Voltage:

1000V DC or AC

Peak Contact to Contact: 60MHz for 1 min.

DC Resistance: 0.2Ω max.

DC Current Rating: 1.5 Amps.

Physical

Minimum Backbox Depth Requirement:

35mm

Shipping Weight: 16 grams (0.56 oz)

Dimensions:

32.1mm/1.23in. (L) x 16.3mm/0.64in. (W) x

19.3mm/0.76in. (H)

Insertion cycles:

750 cycle minimum compliant with FCC 8P

Plug

Commercial Standards

ANSI/TIA-568.2-D: 2018

IEC 60603-7-14: 2010

UL 1863

CSA 22.2

IEEE 802.3an

IEEE 802.3af (Type 1)

IEEE 802.3at (Type 2)

IEEE 802.3bt (Type 3 & 4)

ISO/IEC 11801-1 & 2: 2017 (Ed.1.10)

EN 50173-1 & 2: 2018

IEC 60512-99-002: 2019

4 PAIR TERMINATION TOOL

MECHANICAL

Material

Tool Base and Handle: Polypropylene

Frame: Aluminium alloy

Termination Module: Nylon

Termination Blades:

Stainless steel and carbon tool steel

Termination Module Operating Life:

≥ 1200 cycles

Termination Head wire accommodation:

23-24 AWG

Compatible Cable:

Molex C6A UTP Cable only

Shipping Weight:

318g/11.28oz

Dimensions: 174mm/6.85in(L) x 33mm/1.3in

(W) x 121.6mm/4.79in (H)

PoE

Our PowerCat 6A system is suitable for the most demanding PoE applications:

IEEE 802.3bt from Type 1 to Type 4, and CISCO UPoE+

HD Base-T PoH up to 100W

RP3 compliant as defined by EN 50174-2:2018, ISO/IEC 14763-2:2019 and AS/NZS 14763.2:2020

Notes:

For new installations of PoE Type 3 / Class 5 and above that wish to be eligible for the Molex 25 year Application Assurance Warranty, we require Category 6A cable to be used throughout.

To confirm your PoE / RP3 cabling design is eligible for the Molex 25 year Application Assurance Warranty, your design must be verified and validated with the Molex PoE Calculator. Read more <https://www.molex.com/poe-calculator>

Molex recommends that the PoE feature on an individual switch port are power disabled prior to unplugging the associated powered Device.

Molex recommends that the full range of PowerCat 6A products be used in a system to maximize cabling and PoE performance. Details on Molex requirements for Warranty can be found at <https://www.molex.com/about-us/our-warranty/>

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ORDERING INFORMATION

Order No.	SAP No.	Description
KSJ-00099-02	1810020009	Keystone Jack C6A UTP 568A/B Gen II - White
KSJ-00099-04	1810020010	Keystone Jack C6A UTP 568A/B Gen II - Black
KSJ-00099-05	1810020011	Keystone Jack C6A UTP 568A/B Gen II - Ivory
KSJ-00099-08	1810020012	Keystone Jack C6A UTP 568A/B Gen II Gray
KSJ-00099-BL	1810020013	Keystone Jack C6A UTP 568A/B Gen II - Blue
KSJ-00099-RD	1810020014	Keystone Jack C6A UTP 568A/B Gen II - Red
KSJ-00099-YL	1810020015	Keystone Jack C6A UTP 568A/B Gen II - Yellow
31.0016	182520017	Keystone Jack C6A UTP 4 Pair Termination Tool
Compatible Products: Patch Panels		
PID-00257	182960014	24 Port Keystone Jack Patch Panel 1U Unloaded - Metric fixing kit
PID-00257	182960026	24 Port Keystone Jack Patch Panel 1U Unloaded - Imperial fixing kit
PID-00289	182960027	48 Port Keystone Jack Patch Panel 2U Unloaded - Metric fixing kit
PID-00289	182960028	48 Port Keystone Jack Patch Panel 2U Unloaded - Imperial fixing kit
Compatible Products: Wall Outlets		
Clipsal Compatible		
MOF-00014	180060163	Keystone Jack ModClip Adapter
USA Style		
WKP-00009-02	1810010001	Keystone Jack Wall Plate USA 1 Port
WKP-00010-02	1810010002	Keystone Jack Wall Plate USA 2 Port
WKP-00012-02	1810010004	Keystone Jack Wall Plate USA 4 Port
WKP-00014-02	1810010006	Keystone Jack Wall Plate USA 8 Port
European Style		
MMS-00020-02	181770330	Mod-Snap Keystone Jack Module Unloaded 38.5 x 25mm shuttered White
MLG-00037-02	181770331	22.5 x 45mm Legrand Compatible Keystone Jack Module Unloaded White
MEU-00071-02	181770333	Euromod Keystone Jack Module Wall Plate Single Gang 86 x 86mm White
MEU-00072-02	181770334	Euromod Keystone Jack Module Wall Plate Double Gang 86 x 146mm White
MEU-00073-02	181770332	Euromod Keystone Jack Module 25 x 50mm Shuttered White
WNC-00052-02	181770335	DIN 49075 Keystone Jack Wall Plate 2 Port Unloaded White

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