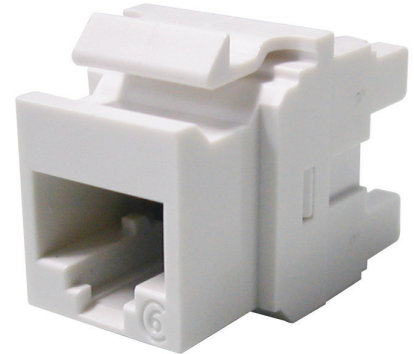


PowerCat 5e Keystone Jack

The PowerCat 5e RJ45 Keystone Jack has been designed to be compatible with any products that accept the standard keystone profile. Suitable for high-speed data transmission, the PowerCat 5e Keystone Jack has been designed to comply with the requirements of TIA/EIA 568B.2, ISO/IEC 11801:2002, EN50173:2002 standards.



FEATURES AND ADVANTAGES

Standard Keystone profile

Dual colour coding allows 568A/B wiring configuration

RJ11 compatible

SPECIFICATIONS

Commercial Standards

TIA/EIA-568-B.2-1, FCC Subpart F 68.5, ISO 60603-7, ISO 11801:2002, EN 50173:2002

Pending Approvals

UL-1863 (Pending)
CSA (Pending)

Technical Information

Mechanical Characteristics

Jack Connector

Plastic Housing:

Polycarbonate, UL94V-0 rated or equivalent

Operating Life:

Minimum 750 insertion cycles

Contact Material: Copper Alloy

Contact Plating: 1.25 micrometers Au/Ni

Contact Force: 100g minimum

Plug Retention Force: 5kg

IDC Connector

Plastic Housing:

Polycarbonate, UL94V-0 rated or equivalent

Operating Life: Minimum 20 reterminations

Contact Material: Copper Alloy

IDC Contact Plating: Tin/Lead Plate

Contact Force: 100g minimum

Wire Accommodation: 22-24 AWG solid

PoE

Our PowerCat 5e system is suitable for PoE applications as defined below:

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

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.molexces.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 5e products be used in a system to maximize cabling and PoE performance. Details on Molex requirements for Warranty can be found at <https://www.molexces.com/about-us/our-warranty/>

www.molexces.com/products/copper/cat5e/

PowerCat 5e Keystone Jack

SPECIFICATIONS - CONTINUED

Electrical/Optical Characteristics

Interface Resistance: 20mΩ

Initial Contact Resistance: 2.5mΩ

Insulation Resistance: >100MΩ

Keystone Jack C5e Performance (dB) Summary @ 100MHz

	Cat 5e	Worst Case Value	Worst Case Margin
Insertion Loss	-0.4	>-0.05	>0.3
NEXT	-43.0	-48.1	5.1
FEXT	-35.1	-45.1	10.0
Return Loss	-20.0	-35.8	15.8

Termination Tool: 110

Dimensions:

23mm x 18mm x 30.6mm

Shipping Weight: 28g

ORDERING INFORMATION

Order No.	SAP No.	Description
KSJ-00032-**	Consult Molex	Keystone Jack Category 5e 8W 568A/B

Colors - Replace the (**) in the part number with one of the following:

01 = Almond 02 = White 04 = Black 05 = Ivory 08 = Light Gray RD = Red BL = Blue GR = Green YL = Yellow RG = Orange PP = Purple

www.molex.com/products/copper/cat5e/