

PowerCat 6 Shielded DataGate Jack >

The Molex PowerCat 6 Shielded DataGate Jack is a key component of the PowerCat 6 shielded channel compliant system. Designed to support a growing requirement for shielded cabling systems offering enhanced EMC protection and improved Alien Crosstalk performance.

This superior connector provides 360° shielded protection by utilizing a two piece tin/nickel plated brass can that encloses the RJ45 IDC. The Shielded DataGate Jack provides 180° and 90° cable exit and includes a unique integral shutter that not only protects it from dust and contaminants, but the ingenious spring-loaded design also ejects improperly seated patch cords.

Suitable for high-speed data transmission, the Shielded DataGate Jack has been designed to exceed the highest electrical performance standards in the industry and has been independently tested and verified by ETL SEMKO for Category 6 component compliance. The Shielded DataGate Jack is also backwards compatible with Shielded C5e systems.

Molex recommend that the full range of PowerCat 6 Shielded products are used in a system to maximize cabling performance. The PowerCat 6 Shielded System has been independently verified by Intertek ETL SEMKO as compliant with ISO/IEC TR24570 and TIA/EIA TSB-155 technical reports for the support of 10G BASE-T Channels and Permanent Links.



FEATURES AND ADVANTAGES

360° Shielded RJ45 Jack

Dual color coding allows 568A/B wiring

Patented IDC V-Shaped contacts that flex not fatigue when terminated

Patented Spring-Loaded Shutter

RJ-11 compatible

Accepts color coded port identification labels

RoHS Compliant

www.molex.com/products/copper/cat6

PowerCat 6 Shielded DataGate Jack

SPECIFICATIONS

MECHANICAL

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

Can:

0.25mm brass to C2680R pre-plated tin over nickel

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

ELECTRICAL

Interface Resistance: 20mΩ

Initial Contact Resistance: 2.5mΩ

Insulation Resistance: >100MΩ

PHYSICAL

Minimum Backbox Depth

Requirement: 40mm

Shipping Weight: 50g

Dimensions:

Jack:

25.5mm(W) x 21.5mm(H) x 37.5mm(L)
(includes 180° exit collar)

Nose: 16.4mm(W) x 20.1(H) x 9mm(L)

Termination Tool: 110

COMMERCIAL STANDARDS

Category 6: TIA/EIA 568B-2-1, FCC Subpart F68.5, ISO 60603-7, ISO 11801:2002, EN 50173:2002

10G Base-T: TIA/EIA TSB-155, ISO/IEC 24570

PoE

Our PowerCat 6 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 6 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/>

ORDERING INFORMATION

Order No.	SAP No.	Description	Color
KSJ-00035-02	Consult Molex	PowerCat 6 DataGate Jack RJ45 568A/B Shielded	White
KSJ-00035-04	Consult Molex	PowerCat 6 DataGate Jack RJ45 568A/B Shielded	Black

www.molexces.com/products/copper/cat6