

PowerCat 6 Shielded DataGate Jack

molex

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



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 micrometres 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

www.molexces.com

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Ordering Information

| Order No. | SAP No. | Description | Colour |
|--------------|---------------|---|--------|
| 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 |