

PowerCat 6 Shielded 22.5 x 45mm and 45 x 45 Modules **>**

These PowerCat 6 Shielded modules are compatible with the Legrand® range of 45 x 45mm bezels. The product are fully assembled units featuring the Shielded shuttered DataGate 6 connector. The angled design reduces patch cord bend radius and features a protected labeling feature. Individual ports may be color coded using a connector icon, for site-specific network administration.

The PowerCat 6 Shielded Modules are a key component of the PowerCat 6 shielded channel compliant system. The module features the Shielded DataGate connector that allows 180° and 90° cable exit. 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 connector 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. The Shielded DataGate connector is dual color coded for either 568A or 568B wiring schedules and is RJ11 compatible.

The Shielded DataGate connector is suitable for high-speed data transmission and is 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.



FEATURES AND ADVANTAGES

Legrand® 45 x 45mm bezel compatible

360° shielded shuttered RJ45 DataGate 6 jack

Protected labeling facility

Angled fascia

RoHS Compliant

www.molex.com/products/copper/cat6

PowerCat 6 Shielded 22.5 x 45mm and 45 x 45 Modules

SPECIFICATIONS

Commercial Standards

TIA/EIA 568C.2:2009 cat. 6, EN 50173-1 :2011 Class E, ISO/IEC 11801:2010 (Ed 2.2) Class E, FCC Subpart F68.5
TIA/EIA TSB-155
ISO/IEC 24570

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: 1.27 micrometers Au/Ni

Contact Force: 100g minimum

Plug Retention Force: 6.8kg.

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 Matte Finish

Contact Force: 100g minimum

Wire Accommodation: 22-24 AWG solid

Electrical/Optical Characteristics

Interface Resistance: 20mΩ

Initial Contact Resistance: 2.5mΩ

Insulation Resistance: >100MΩ

Minimum Backbox Requirement: 40mm

Termination Tool: 110

Shipping Weight:

22.5 x 45mm 325g (Pack of 10)

45 x 45mm 150g (Pack of 5)

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
MLG-00022-02	Consult Molex	PowerCat 6 22.5 x 45mm Module RJ45 568A/B Shielded - White
MLG-00025-02	Consult Molex	PowerCat 6 45 x 45mm Module RJ45 568A/B Shielded - White
16.A0012	Consult Molex	22.5 x 45mm Blank Module

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