molex®

PowerCat 45 x 45 mm Module FTP Category 5E

Features and Benefits

The 45 x 45mm module has been designed specifically to be compatible with the Legrand range of 45 x 45mm bezels. Molex's PowerCat 45 x 45mm module features an enhanced performance Category 5, RJ45 RJLP connector, designed to support high speed data transmission. The module is part of the PowerCat System range of products, that have been designed based on the PowerSum principle of crosstalk measurement and testing.

Molex Premise Networks unique patented RJLP RJ45 connector is designed to meet the highest performance standards in the industry and offers a low profile, space saving design that enables installation in shallow backboxes and trunking. The FTP connector provides continuity of the cable shield by providing a termination point for the drain wire.

- Legrand bezel compatible
- Enhanced Performance RJ45 connector
- EIA 568B wired
- Provides through shield continuity

Technical Information

Termination Tools:

Molex and other industry standard installation# tools

IDC Terminations

Suitable for 0.4mm - 0.6mm solid or stranded cable, maximum o.d 1.5mm

Two wires may be terminated for daisy-chain applications.

Patents pending on connector and module designs.

Mechanical
Jack Connector

Operating Life :	Minimum 500 insertion cycles
Contact Material :	Phosphor Bronze
Contact Plating :	1.25 micrometres Au/Ni
Material :	UL 94VO Thermoplastic

IDC Connector

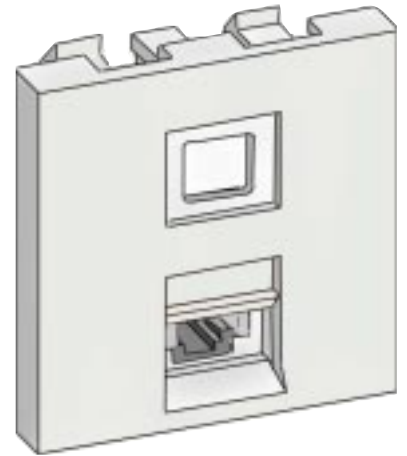|	
Operating Life :	Minimum 100 Reterminations
Contact Material :	Phosphor Bronze
Contact Plating :	Sn/Pb over Ni
Wire Accommodation :	2 x 22-26 AWG solid or stranded

Electrical

D.C. Resistance :	<20mΩ
D.C. Resistance Imbalance :	<2.0mΩ
Insulation Resistance:	>100MΩ

Attenuation (dB)	@	1MHz	0.0121
	@	16MHz	0.0193
	@	100MHz	0.1052
Crosstalk (dB)	@	1MHz	-84.24
	@	16MHz	-60.03
	@	100MHz	-45.70
PowerSum Worst Pair	@	100MHz	-41.83
Return Loss (dB)	@	1MHz	-65
	@	16MHz	-48
	@	100MHz	-30

Backbox/Trunking depth requirement

Minimum clearance 16mm

Order No.	Description
MLG-00005-02	45 x 45mm FTP Module 568B Cat 5E White Powercat

Molex Premise Networks standard fascia colour is white. Other colours may be subject to minimum order quantities.