

PowerCat 5e Patch Panels

Molex PowerCat 5e Patch Panels are designed to provide a simple, orderly and efficient means for connecting horizontal cabling.

The product includes the PowerCat 5e DataGate Jack, which features a spring-loaded shutter that not only protects it from dust and contaminants, but also ejects improperly seated patch cords. Port identification is provided on the front and back of the panel and individual ports can be color-coded with icon labels, supplied separately. Manufactured from cold-rolled steel for strength and durability and finished in either graphite gray or black.



PID-00174 (above), PID-00175 (below)

FEATURES AND ADVANTAGES

Available in 1U 24 Port and 2U 48 Port density

Each port features the patented DataGate Jack with spring-loaded shutter:

- prevents incomplete mating
- protects from dust and contaminants

Patented IDC V-shaped contacts that flex, not fatigue, when terminated

Features pointed IDC towers to speed termination and enhance cable retention

Dual color-coding allows for 568 A/B wiring configuration

Front and rear port labeling as well as panel identification label

4 x 6 ganged jack configuration

Removable cable management shelf(s) ensure bend radius compliance

Can be terminated using industry standard punchdown tools

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

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SPECIFICATIONS

Commercial Standards

TIA-568.2-D
FCC Subpart F 68.5 Compliant
IEC-603-7 Compliant
ISO 11801: 2017 Compliant

Approvals:

ULL-1863
CSA 22.2

Mechanical

Jack Connector

Plastic Housing: Thermoplastic UL94V-0 rated or equivalent

Operating Life: Minimum 750 insertion cycles

Contact Material: Copper Alloy

Contact Plating: 50µ" Gold/100µ" Nickel

Contact Force: 100g minimum

Plug Retention Force: 11 lbf minimum

IDC Connector

Plastic Housing: Thermoplastic UL94V-0 rated or equivalent

Operating Life: Minimum 20 reterminations

Contact Material: Copper Alloy

IDC Contact Plating: Tin/Lead Plate

Wire Accommodation: 22-24 AWG solid

Patch Panel Characteristics

Material: CRS (cold rolled steel)

Thickness: 0.060" (1.52mm)

Coating: Grey or Black

Electrical Characteristics:

Interface Resistance: 20 mΩ

Initial Contact Resistance: 2.5 mΩ

Insulation Resistance: >100 MΩ

Physical

Dimensions

24 Port with trays

44mm H x 483mm W x 98mm D

48 Port with trays

88mm H x 483mm W x 98mm D

Shipping Weight

24 Port: 978.6 grams

48 Port: 1504.5 grams

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/>

ORDERING INFORMATION

Order No.	SAP No.	Description
PID-00174	182080372	1U 24 Port PowerCat C5e Patch Panel 568A/B Gray - Metric fixing kit
	181060023	1U 24 Port PowerCat C5e Patch Panel 568A/B Gray - US Imperial fixing kit
PID-00174-04	181060012	1U 24 Port PowerCat C5e Patch Panel 568A/B Black
PID-00175	182080374	2U 48 Port PowerCat C5e Patch Panel 568A/B Gray - Metric fixing kit
	181060024	2U 48 Port PowerCat C5e Patch Panel 568A/B Gray - US Imperial fixing kit
PID-00175-04	181060018	2U 48 Port PowerCat C5e Patch Panel 568A/B Black

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