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PowerCat 6 Patch Panels ❯

The PowerCat 6 Patch Panels are a key component of the PowerCat 6 end-to-end Solution.

Manufactured from sheet metal these panels are supplied with a robust rear cable management tray for cable strain relief and neat cable dressing. Port numbering is provided on front and rear of the panel and individual ports may be color coded for site specific network administration.

The panel features the unique DataGate Category 6 connector which includes an integral ingenious spring-loaded shutter that not only protects it from dust and contaminants but it also ejects improperly seated patch cords. The DataGate connector is dual color coded for either 568A or 568B wiring and supports high-speed data transmission. The product is backwards compatible with C5e systems.

Molex recommends that the full range of PowerCat 6 products are used in a system to maximize cabling performance.

FEATURES AND ADVANTAGES

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

Robust rear cable management tray

Category 6 DataGate shuttered connector

Category 6 performance when installed as an end-to-end Category 6 system

RoHS compliant

www.molexces.com/products/copper/cat6/

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PowerCat 6
Patch Panels ❯

SPECIFICATIONS

Commercial Standards

ANSI/TIA-568.2-D-2018
ISO/IEC 11801-1:2017
FCC Subpart F68.5
UL Listed

Mechanical

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: 15 lbs

IDC Connector

Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent
Operating Life: Minimum 200 reterminations
Contact Material: Copper Alloy
IDC Contact Plating: Tin matte finish
Contact Force: 100g minimum
Wire Accommodation: 22-24 AWG solid

Patch Panel Characteristics

Material: CRS (cold rolled steel)
Thickness: 0.060" (1.52mm)
Coating: Graphite Gray Powdercoat

Electrical

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: 1.2kg
48 Port: 2.2kg

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
PID-00141	182040009	PowerCat 6 Unshielded 24 Port Patch Panel - 1U - Metric fixing kit
	182090036	PowerCat 6 Unshielded 24 Port Patch Panel - 1U - US Imperial fixing kit
PID-00142	182040010	PowerCat 6 Unshielded 48 Port Patch Panel - 2U - Metric fixing kit
	182090037	PowerCat 6 Unshielded 48 Port Patch Panel - 2U - US Imperial fixing kit

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