molex

PowerCat 6A
Shielded Patch Panel ❯

The PowerCat 6A Shielded Patch Panel is a key component of the PowerCat 6A shielded end-to-end solution.

The 24 Port (1U) and 48 Port (2U) PowerCat 6A Shielded Patch Panels are made from robust sheet metal. These panels are also supplied with robust rear cable management trays for cable strain relief and neat cable dressing. Port numbering is provided on the front and rear of the panel and individual ports may be color coded using connector icon labels for site specific network administration.

The PowerCat 6A Shielded Patch Panel features the unique DataGate Shielded connector. This shielded connector offers superior alien crosstalk suppression, excellent insertion loss, and provides enhanced electromagnetic interference (EMI) protection by utilizing robust die-cast zinc alloy connector body housing. This shielded connector also features a unique spring-loaded shutter that not only protects it from dust and contaminates, but the ingenious spring-loaded design also ejects improperly seated patch cords. The shielded connector is dual color coded for either 568A or 568B wiring schedules. The DataGate PowerCat 6A Shielded connector was specifically developed for high-speed data transmission; designed to exceed the highest electrical performance standards in the industry. The DataGate PowerCat 6A Shielded connector is also backwards compatible with Shielded C6 and C5e systems.

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

FEATURES AND ADVANTAGES

Available in 24 Ports 1U and 48 Port 2U

Robust rear cable management included

PowerCat 6A Datagate Shielded connector included

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

Category 6A performance when installed as a complete PowerCat 6A Shielded System

RoHS Compliant

www.molexces.com/products/copper/cat6a/

PowerCat 6A
Shielded Patch Panel ❯

SPECIFICATIONS

Commercial Standards

ANSI/TIA-568.2-D-2018
ISO/IEC 11801-1:2017
IEC 60603-7
UL 1863
CSA C22.2

Pending Approvals

ETL independent testing

Mechanical

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 and 26AWG stranded
Patch Panel Characteristics
Material: CRS (cold rolled steel)
Thickness: 1.52mm (.060")
Coating: Black Powdercoat

Jack Connector
Housing: Zinc Alloy plated Bright Ni/Cu

Operating Life: Minimum 750 insertion cycles
Contact Material: Copper Alloy
Contact Plating: 50µ Gold/ 50µ Nickel minimum
Contact Force: 100g minimum
Plug Retention Force: 6.8kg minimum
Ambient Installation and Operating Temperature: -40 to +70° C

Electrical

Interface Resistance: 20mΩ
Initial Contact Resistance: 2.5mΩ
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 6A system is suitable for the most demanding PoE applications:

IEEE 802.3bt from Type 1 to Type 4, and CISCO UPoE+
HD Base-T PoH up to 100W
RP3 compliant as defined by EN 50174-2:2018, ISO/IEC 14763-2:2019 and AS/NZS 14763.2:2020

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 6A 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-00217	182960000	PowerCat 6A 24 Port Patch Panel 568A/B Shielded - 1U - Metric fixing kit
	182960022	PowerCat 6A 24 Port Patch Panel 568A/B Shielded - 1U - US Imperial fixing kit
PID-00219	182960003	PowerCat 6A 48 Port Patch Panel 568A/B Shielded - 2U - Metric fixing kit
	182960025	PowerCat 6A 48 Port Patch Panel 568A/B Shielded - 2U - US Imperial fixing kit
Accessories		
CSP-00021-**	Consult Molex	Connector Icon Label

Insert color code in place of ** in part number when ordering PowerCat 6A Accessories:
01 = Almond, 02 = White, 04 = Black, 05 = Ivory, 08 = Light Grey, RD = Red, BL = Blue, GR = Green, YL = Yellow, RG = Orange, PP = Purple

www.molexces.com/products/copper/cat6a/