

# PowerCat 6A Shielded Patch Panel >

**The PowerCat 6A Shielded Angled 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 Angled Patch Panels are made from robust 1.6mm gauge 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 angled design provides enhanced port access and minimizes patch cord bend radius whilst also eliminating the need for horizontal cable rack managers, and therefore frees up rack space for higher port density.

The PowerCat 6A Shielded Angled 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 contaminants, 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. This system is compliant with the latest ISO 11801 AMD 1 Class EA and TIA-568-C.2 Cat 6A for the support of 10G BASE-T.



## FEATURES AND ADVANTAGES

Available in 24 Ports 1U and 48 Port 2U

Angled panel design eliminates patch cord horizontal cable managers and minimizes bend radius

Removable 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.molex.com/products/copper/cat6a/](http://www.molex.com/products/copper/cat6a/)

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## SPECIFICATIONS

### Commercial Standards

ISO 11801 AMD 1 CLASS EA  
TIA-568-C.2 CAT 6A  
ANSI/EIA-1069-A  
IEC 60603-7  
UL-1863 (FOR DATA USE ONLY)  
CSA C22.2

### Mechanical

#### IDC Connector

**Plastic Housing:** Polycarbonate, UL94V-0 rated

**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

#### 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

### Electrical

**Interface Resistance:** 20mΩ

**Initial Contact Resistance:** 2.5mΩ

**Insulation Resistance:** >100 MΩ

### 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-00218	182960001	PowerCat 6A 24 Port Angled Patch Panel 568A/B Shielded - 1U - Metric fixing kit
	182960023	PowerCat 6A 24 Port Angled Patch Panel 568A/B Shielded - 1U - US Imperial fixing kit
PID-00220	182960003	PowerCat 6A 48 Port Angled Patch Panel 568A/B Shielded - 2U - Metric fixing kit
	182960025	PowerCat 6A 48 Port Angled 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/](http://www.molexces.com/products/copper/cat6a/)