

# PowerCat 6 Angled Patch Panels >

**PowerCat 6 Angled Patch Panels are ideal for installations of high density or which utilize extensive side and end-of-the-rack cable management.**

The angled feature provides enhanced port access and minimizes patch cord bend radius to the rack. The IDC section consists of V-shaped contacts that flex not fatigue when terminated. Each RJ45 port features a patented spring-loaded shutter and can be color coded to match jack outlets with the use of optional port icons. Offering both front and rear labeling options, the patch panel is constructed of cold-rolled steel for additional strength and durability.



*PID-00156 (above),  
PID-00157 (below)*

## FEATURES AND ADVANTAGES

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

Each port features the patented 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 (port sequence 1–480) as well as panel identification label

4 x 6 ganged jack configuration

Individually removable patch panel ports

Removable cable management shelf(s) ensure bend radius compliance

Available with either US Imperial or metric hardware kit

Can be terminated using industry standard punch-down tools

RJ45 port which is RJ-11 compatible

Molded category identification on each port face as well as optional port identification icons

[www.molex.com/products/copper/cat6/](http://www.molex.com/products/copper/cat6/)

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## SPECIFICATIONS

### Commercial Standards

TIA/EIA-568-B.2-1 Component Compliant  
 FCC Subpart F 68.5 Compliant  
 IEC-603-7 Compliant  
 ISO 11801 Class E Compliant  
 ETL Verified for Category 6 Component Compliance  
**Pending Approvals:**  
 UL-1863  
 CSA C22.2

### Technical Information

#### Mechanical Characteristics

##### Patch Panel

**Material:** CRS (cold rolled steel)  
**Thickness:** .060" (1.52mm)  
**Coating:** Gray / Option for Black

##### Jack Connector

**Plastic Housing:** Thermoplastic UL94V-0 rated or equivalent  
**Operating Life:** Minimum 750 insertion cycles  
**Contact Material:** Phosphor Bronze  
**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:** Phosphor Bronze  
**IDC Contact Plating:** Solder Plate (60% tin/40% lead)  
**Wire Accommodation:** 22-24 AWG solid

### Electrical/Optical Characteristics

**Interface Resistance:** 20 milliohms  
**Initial Contact Resistance:** 2.5 milliohms  
**Insulation Resistance:** >100 Megaohms

### Dimensions

**1U 24 Port:** 44mm x 483mm x 197mm  
**2U 48 Port:** 88mm x 483mm x 197mm  
**Shipping Weight**  
**1U 24 Port:** 530g  
**2U 48 Port:** 1.00kg

### 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-00156	182080297	24 Port PowerCat 6 Angled Patch Panel, 1U - Metric Fixing Kit
	182090038	24 Port PowerCat 6 Angled Patch Panel, 2U - US Imperial Kit
PID-00157	182080299	48 Port PowerCat 6 Angled Patch Panel, 1U - Metric Fixing Kit
	182090039	48 Port PowerCat 6 Angled Patch Panel, 2U - US Imperial Kit

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