molex®

PowerCat™ 6A
Shielded Patch Panel

Features and Benefits

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 removable 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 colour 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 utilising 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 colour coded for either 568A or 568B wiring schedules. The DataGate Power Cat 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 maximise cabling performance. This system is compliant with the latest ISO/IEC 11801 2nd Ed A1.1 draft and ratified TIA/EIA 568-B.2-10 for the support of 10G BASE-T.

- Available in 24 Ports 1U and 48 Port 2U
- 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

Commercial Standards:

TIA/EIA-568-B.2-10
ISO/IEC 11801 2nd Ed A1.1
FCC Subpart F 68.5
IEC-603-7

Pending Approvals:
ETL independant testing
UL-1863
CSA C22.2

Technical Information

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 with grey overlay

Mechanical Characteristics
Jack Connector

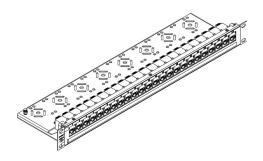|	
Housing:	Zinc Alloy plated Bright Ni/Cu
Operating Life:	Minimum 750 insertion cycles
Contact Material:	Copper Alloy
Contact Plating:	1.25 micrometres Au/Ni
Contact Force:	100g minimum
Plug Retention Force:	6.8kg minimum

Electrical Characteristics

Interface Resistance:	20mΩ
Initial Contact Resistance:	2.5mΩ
Insulation Resistance:	>100 MΩ

Dimensions: 32mm x 156mm x 483mm

ORDERING INFORMATION

Order No.	Description
PID-00217	PowerCat 6A 24 Port Patch Panel 568A/B Shielded with Cable Management - 1U
PID-00219	PowerCat 6A 48 Port Patch Panel 568A/B Shielded with Cable Management - 2U
Accessories	
CSP-00021-**	Connector Icon Label

Insert colour 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