PowerCat 6 FTP Patch Panel

Features and Benefits

Molex Premise Networks Category 6 FTP Patch Panel is part of the PowerCat 6 FTP product range that has been designed to support a growing requirement for shielded cabling systems.

The PowerCat 6 FTP Patch Panel features the FTP DataGate Plus™ Category 6 connector. This superior connector provides 360° shielded protection by utilising a two piece tin/nickel plated brass can that encloses the RJ45 IDC. The FTP DataGate Plus connector includes a unique integral shutter that not only protects it from dust and contaminants, but the ingenious spring-loaded design also ejects improperly seated patch cords. The FTP DataGate Plus connector is dual colour coded for either 568A or 568B wiring schedules and is RJ11 compatible.

The 24 Port (1U) PowerCat 6 FTP Patch Panel is supplied with a rear cable management tray 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.

Suitable for high-speed data transmission, the FTP DataGate Plus Category 6 connector has been designed to exceed the highest electrical performance standards in the industry and has been independently tested and verified by ETL SEMKO for Category 6 component compliance. The FTP DataGate Plus connector is also backwards compatible with FTP C5E systems.

Molex recommend that the full range of PowerCat 6 FTP products are used in a system to maximise cabling performance. Utilising F/UTP cable part no CAA-00252 the System has been independently verified by Intertek ETL SEMKO as compliant with ISO/IEC 24570 and TIA/EIA TSB-155 standards for the support of 10G BASE-T Channels and Permanent Links.

- 24 Ports 1U
- Rear cable management included
- 360° shielded shuttered DataGate Plus component compliant connector
- 568A/B wiring schedule
- Independently tested

Compliant With

TIA/EIA-568-B.2-1, FCC Subpart F 68.5, ISO 60603-7, ISO 11801:2002, EN50173:2002

Approvals

UL-1863 (Pending)
CSA (Pending)
ETL Verified for Category 6 Component Compliance

IDC Connector

Plastic Housing:	Polycarbonate, UL94V-0 rated or equivalent
Operating Life:	Minimum 20 reterminations
Contact Material:	Copper Alloy
IDC Contact Plating:	Tin/Lead Plate
Contact Force:	100g minimum
Wire Accommodation:	22-24 AWG solid

Patch Panel Characteristics

Material:	CRS (cold rolled steel)
Thickness:	.060" (1.52mm)
Coating:	Graphite Grey Powdercoat

Mechanical Characteristics
Jack Connector

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Plastic Housing:	Polycarbonate, UL94V-0 rated or equivalent
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
Can:	0.25mm brass to C2680R pre-plated tin over nickel

Electrical Characteristics

Interface Resistance:	20mΩ
Initial Contact Resistance:	2.5mΩ
Insulation Resistance:	>100 MΩ
Termination Tool:	110
Shipping Weight:	1.34kg
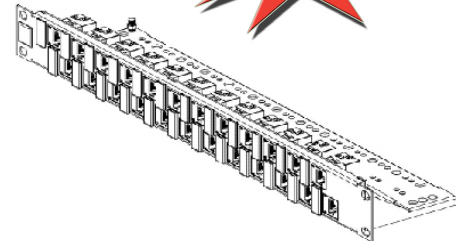
Dimensions: 44mm x 483mm x 103mm
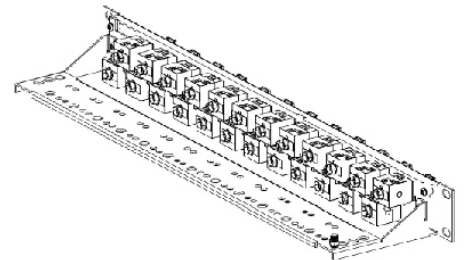
ORDERING INFORMATION

Order No.	Description
PID-00182	1U 24 Port PowerCat 6 FTP Patch Panel 568A/B with Cable Management
Accessories	
CSP-00021-**	Connector Icon Label

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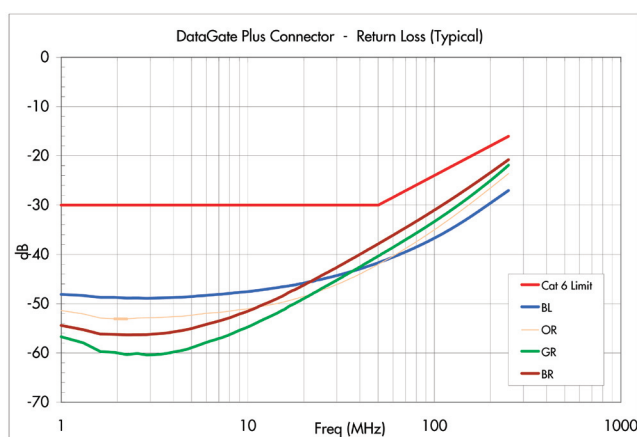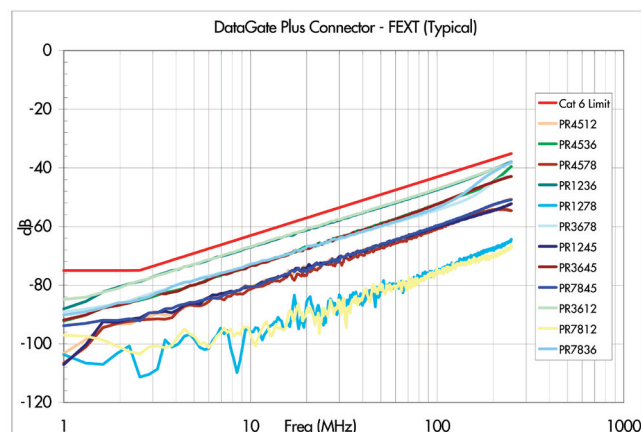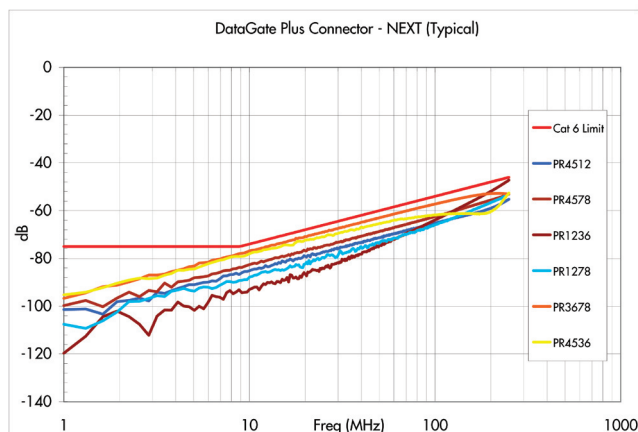
molex®

PowerCat 6 FTP Patch Panel

DataGate Plus Connector - NEXT (Typical)

DataGate Plus Connector - FEXT (Typical)

DataGate Plus Connector - Return Loss (Typical)

DataGate Plus Worst Case (dB)

Frequency (MHz)	NEXT		FEXT		Return Loss		Insertion Loss	
	SPEC	MOLEX	SPEC	MOLEX	SPEC	MOLEX	SPEC	MOLEX
1	-75.0	-95.3	-75.0	-84.9	-30.0	-48.1	-0.10	-0.02
4	-75.0	-85.3	-71.1	-75.0	-30.0	-48.8	-0.10	-0.02
8	-75.0	-79.1	-65.0	-68.9	-30.0	-47.9	-0.10	-0.02
10	-56.1	-77.2	-63.1	-67.1	-30.0	-46.7	-0.10	-0.02
16	-69.9	-73.0	-59.0	-62.9	-30.0	-43.1	-0.10	-0.02
20	-68.0	-70.8	-57.1	-60.8	-30.0	-41.3	-0.10	-0.02
25	-66.0	-68.9	-55.1	-59.1	-30.0	-39.3	-0.10	-0.02
31.25	-64.1	-67.2	-53.2	-57.2	-30.0	-37.4	-0.11	-0.02
62.5	-58.1	-61.1	-47.2	-51.4	-28.0	-31.2	-0.16	-0.03
100	-54.0	-57.3	-43.1	-47.2	-24.0	-26.9	-0.20	-0.05
200	-48.0	-50.7	-37.1	-40.5	-18.0	-20.2	-0.28	-0.07
250	-46.0	-48.7	-35.1	-38.0	-16.0	-18.2	-0.32	-0.09

NOTE:
Performance values shown in dB.
For NEXT, FEXT and Return Loss: the higher the negative value the better the performance (e.g. -73.0 better than -69.9)
For Insertion Loss: the lower the negative value the better the performance (e.g. -0.02 better than -0.10)