

Features and Benefits

Molex Premise Networks PowerCat 6 Patch Panels are designed to provide a simple, orderly and efficient means for cross connecting between vertical and horizontal cabling. Fully assembled 24 port (1U) and 48 port (2U), PowerCat 6 Patch Panels are supplied with a rear cable management tray for cable strain relief and neat cable dressing. The front and rear of the panels are marked with the port numbers and individual ports may be colour coded for site-specific network administration by fitting connector icon labels. A protected labelling feature is also provided for clear panel identification.

PowerCat 6 Patch Panels feature the DataGate Plus™ Category 6 connector. This superior RJ45 IDC includes a unique integral shutter that not only protects the connector from dust and contaminants, but the ingenious spring loaded design also ejects improperly seated patch cords. The Datagate Plus connector is dual coded for either 568A or 568B wiring schedules and is RJ11 compatible.

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

- 24 Ports 1U and 48 Ports 2U
- Rear cable management included
- Colour coded port option
- DataGate Plus component compliant connector
- 568 A/B wiring schedule
- Independently Tested

Commercial Standards

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

Technical Information

Mechanical Characteristics

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

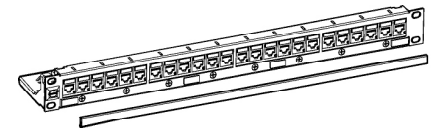
Jack Connector

Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent
 Operating Life: Minimum 750 insertion cycles
 Contact Material: Copper Alloy
 Contact Plating: 1.27 micrometres Au/Ni
 Contact Force: 100g minimum
 Plug Retention Force: 6.8kg

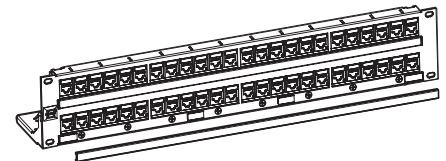
Electrical Characteristics

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

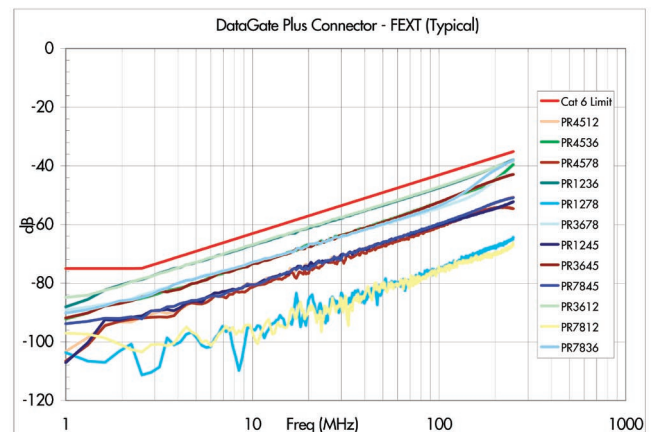
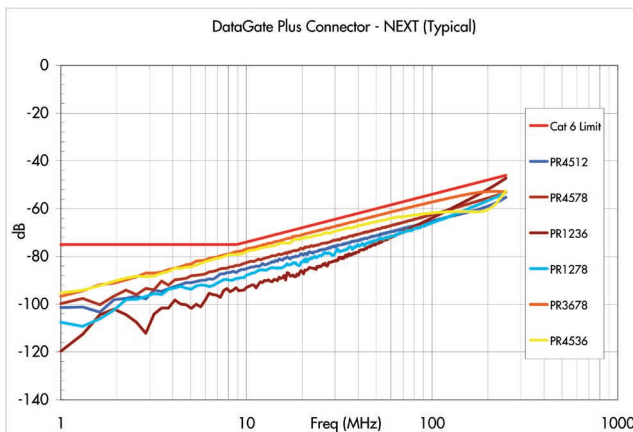
Termination Tool: 110

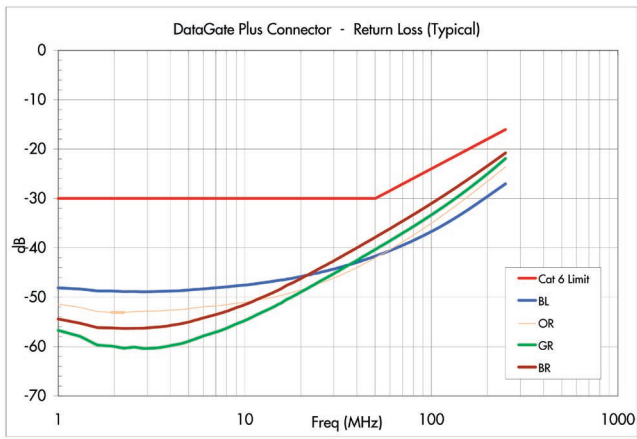


1U 24 Port PowerCat 6 Patch Panel
 Dimensions: 44mm x 483mm x 98mm
 Shipping Weight: 530g



2U 48 Port PowerCat 6 Patch Panel
 Dimensions: 88mm x 483mm x 98mm
 Shipping Weight: 1.00kg





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)

Ordering Information

Order No.	Description
PID-00141	1U 24 Port PowerCat 6 Patch Panel 568A/B with Cable Management
PID-00142	2U 48 Port PowerCat 6 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

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