

Features and Benefits

The PowerCat 6 FTP Patch Panel is designed to support a growing requirement for shielded cabling systems offering enhanced EMC protection and improved Alien Crosstalk performance, providing 360° shielded protection by utilising a two piece tin/nickel plated brass can that encloses the RJ45 IDC.

The PowerCat 6 FTP Patch Panel incorporates the PowerCat 6 FTP DataGate Plus jack, featuring a patented 'spring-loaded shutter' which protects it from dust and contaminants as well as provides tactile feedback –the spring-loaded shutter pops out an improperly seated patch cord—all with single-handed plug-in and removal.

DataGate Plus jacks utilise patented IDC V-shaped contacts that flex not fatigue when terminated and is uniquely designed to allow for rear and side entry cable termination. The provision of side entry termination ensures bend radius is maintained in installations where there is limited space - optimising the performance of your Category 6 solution.

Patch Panels are 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.

- 24 Ports 1U
- Standard 19" rack mount
- Rear Cable Management
- 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
- 360° Shielded RJ45 Jack
- Dual colour-coding allows for 568 A/B wiring configuration
- ETL Verified
- RJ-11 compatible
- Backwards compatible with FTP CSE systems

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
Jack Connector

Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent
Operating Life: Minimum 750 insertion cycles
Contact Material: Copper Alloy
Contact Plating: 50µ" Gold/100µ" Nickel
Contact Force: 100g minimum
Plug Retention Force: 5kg.
Can: 0.25mm brass to C2680R pre-plated tin over nickel

IDC Connector

Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent
Operating Life: Minimum 200 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

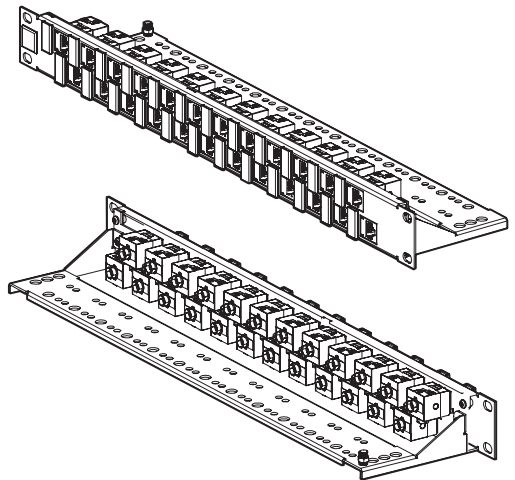
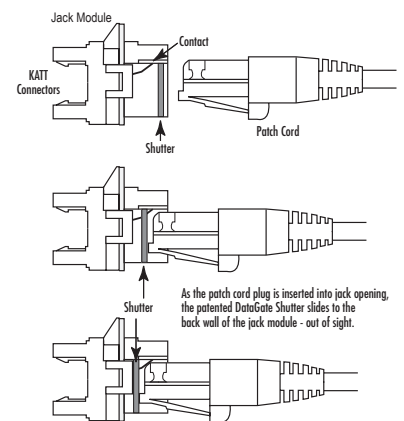
Electrical Characteristics

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

Termination Tool: 110
Shipping Weight: 1.34g

Dimensions

44mm (H) x 483mm (W) x 103mm (D)


DataGate Shutter Operation

ORDERING INFORMATION

Order No.	Description
PID-00182	1U 24 Port PowerCat 6 FTP Patch Panel 568A/B with Cable Management
Accessories	
CSP-00021-**	Blank 6-Pack Icons (Bag of 10)
CSP-00022-**	Data 6-Pack Icons (Bag of 10)
CSP-00023-**	Voice 6-Pack Icons (Bag of 10)

DataGate Colours - Replace the (**) in the part number with one of the following:

01 = Almond 02 = White 04 = Black 05 = Electrical Ivory 08 = Light Grey
RD = Red BL = Blue GR = Green YL = Yellow RG = Orange PP = Purple

Corporate Headquarters
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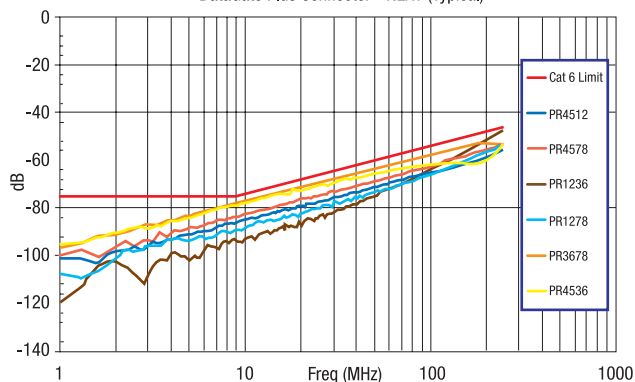
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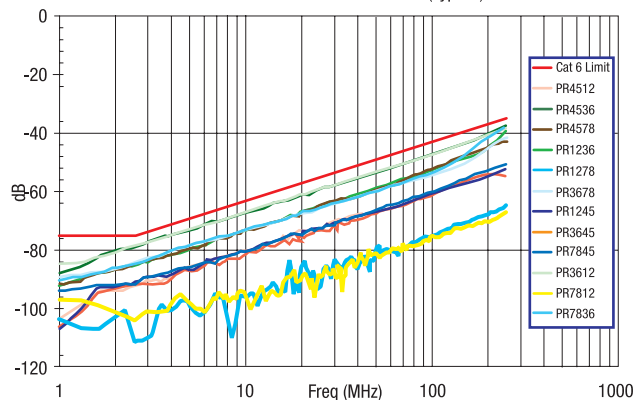




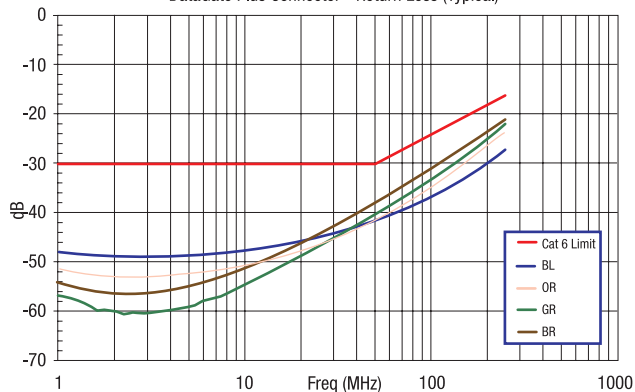
DataGate Plus Connector - NEXT (Typical)



DataGate Plus Connector - FEXT (Typical)



DataGate Plus Connector - Return Loss (Typical)



ETL Category 6 Component Compliance Graphs Shown