

## FEATURES AND SPECIFICATIONS

### Features and Benefits

The PowerCat 6 Synergy™ Surface Mount Boxes are ideal for use in open office cabling. The attractive, contemporary design of the product family comprises of 1, 2, 4 and 6 port variants complete with DataGate Plus™ shuttered connector. Synergy Surface Boxes offer simple, organised installation in areas where surface mount is the only option. Cable can be installed from the sides or base of the box.

PowerCat 6 Synergy Surface Mount Boxes 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 colour 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 standards 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.

- Contemporary design
- Protected labelling facility and service I.D. icons
- Ideal for surface mount applications

### Compliant With

TIA/EIA-568-B.2-1, FCC Subpart F 68.5, ISO 60603-7, ISO 11801:2002, EN 50173:2002

### 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: 1.25 micrometres Au/Ni  
Contact Force: 100g minimum  
Plug Retention Force: 6.8kg.

##### 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

#### Electrical Characteristics

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

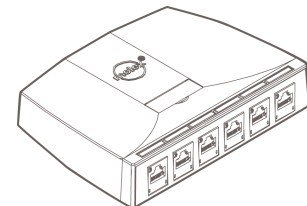
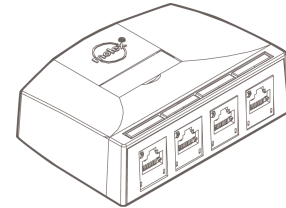
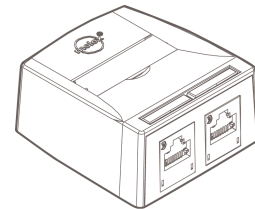
Termination Tool: 110

#### Shipping Weight:

1 Port: 3g  
2 Port: 4.5g  
4 Port: 8g  
6 Port: 14.5g



## PowerCat 6 Synergy™ Surface Mount Boxes



## ORDERING INFORMATION

Order No.	Description
SBX-00005-02	1 Port RJ45 568A/B UTP Cat 6 White
SSY-00007-02	2 Port RJ45 568A/B UTP Cat 6 White
SSY-00008-02	4 Port RJ45 568A/B UTP Cat 6 White
SSY-00009-02	6 Port RJ45 568A/B UTP Cat 6 White
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



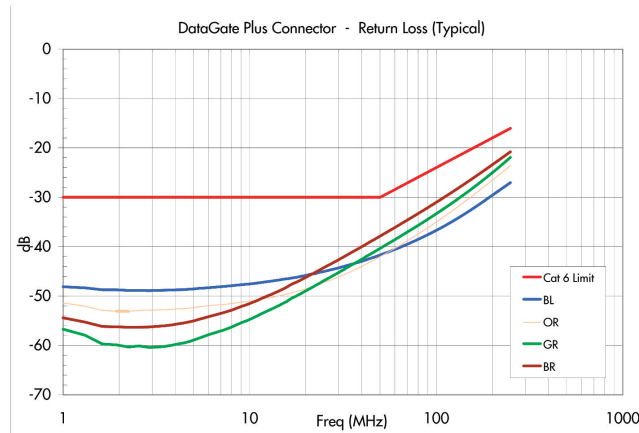
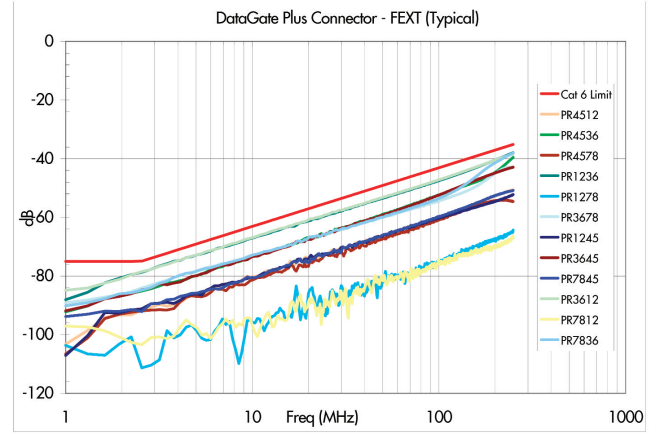
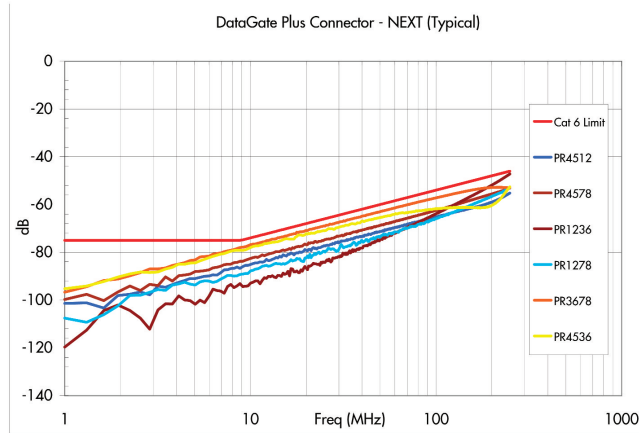
## MOLEX PREMISE NETWORKS

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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)

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