

FEATURES AND SPECIFICATIONS

Features and Benefits

The PowerCat 6 Synergy Wall Plate range is ideal for space-limited areas such as power-poles, desktop trunking, or areas where a fixed number of ports are to be installed and modularity is not required. The product fits a standard UK back box (86 x 86mm outer dimension) and is a complete assembly comprising of one, two or four ports, fixing screws, protected labelling feature and icon labels for port identification of services. In addition individual ports may be colour coded using a connector icon, for site-specific network administration.

PowerCat 6 Synergy Wall Plates 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.

- UK Standard 86 x 86mm fascia
- Contemporary design
- Protected labelling facility and service I.D. icons
- Ideal for space-limited areas

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

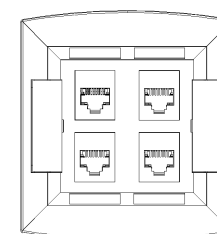
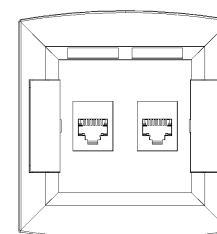
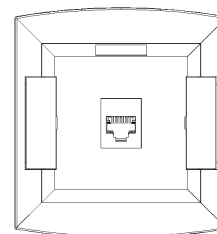
Interface Resistance: 20mΩ
Initial Contact Resistance: 2.5mΩ
Insulation Resistance: >100 MΩ

Termination Tool: 110

Shipping Weight: 10g



PowerCat 6 Synergy™ Wallplates 86 x 86mm



ORDERING INFORMATION

Order No.	Description
WSY-00021-02	1 Port RJ45 568A/B UTP Cat 6 White
WSY-00022-02	2 Port RJ45 568A/B UTP Cat 6 White
WSY-00023-02	4 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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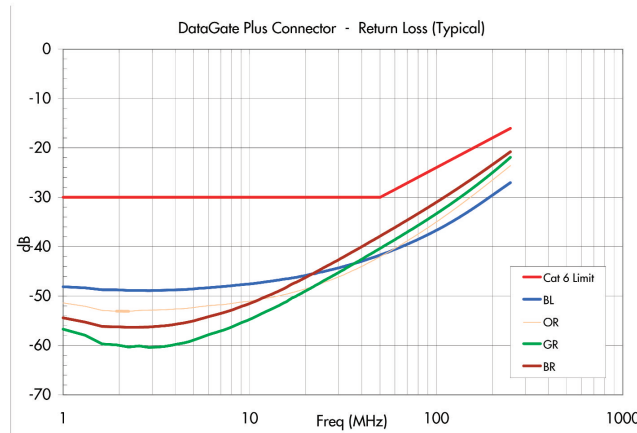
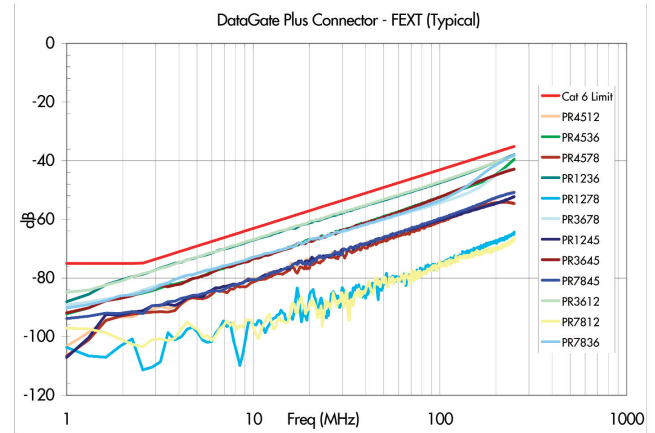
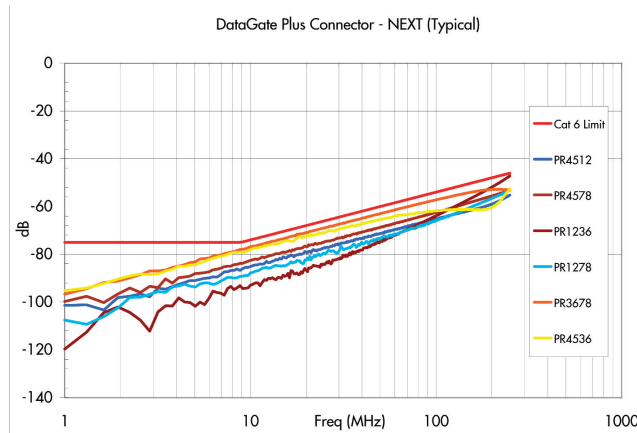
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DataGate Plus Worst Case (dB)								
Frequency (MHz)	NEXT		FEXT		Return Loss		Insertion Loss	
	SPEC	MOLEX	SPEC	MOLEX	SPEC	MOLEX	SPEC	MOLEX
1	-75.0	-95.3	-75.0	-84.9	-30.0	-48.1	-0.10	-0.02
4	-75.0	-85.3	-71.1	-75.0	-30.0	-48.8	-0.10	-0.02
8	-75.0	-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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