molex

PowerCat™ 6 Synergy™ Surface Mount Boxes

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 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 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 connector is dual colour coded for either 568A or 568B wiring schedules and is RJ11 compatible.

Suitable for high-speed data transmission, the DataGate Category 6 connector has been designed to exceed the highest electrical performance standards in the industry. The DataGate connector is also backwards compatible with C5E systems.

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

Commerical Standards

TIA/EIA-568-C.2:2009 cat.6, EN 50173-1:2011 Class E, ISO/IEC 11801:2010 (Ed 2.2) Class E, FCC Subpart F68.5

Pending Approvals
UL-1863 (Pending)
CSA (Pending)

Technical Information

Mechanical Characteristics

Jack Connector

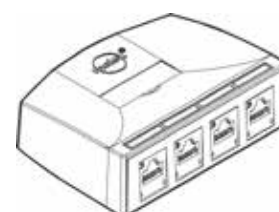|	
Plastic Housing:	Polycarbonate, UL94V-0 rated or equivalent
Operating Life:	Minimum 750 insertion cycles
Contact Material:	Copper Alloy
Contact Plating:	1.25 micrometres Au/Ni
Contact Force:	100g minimum
Plug Retention Force:	6.8kg.

IDC Connector

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

Electrical/Optical Characteristics

Interface Resistance: $20m\Omega$
Initial Contact Resistance: $2.5m\Omega$
Insulation Resistance: $>100\ M\Omega$

Termination Tool: 110

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

ORDERING INFORMATION

Order No.	SAP No.	Description
SBX-00005-02	Consult Molex	1 Port PowerCat 6 DataGate Synergy Surface Box, 568A/B - White
SSY-00007-02	Consult Molex	2 Port PowerCat 6 DataGate Synergy Surface Box, 568A/B - White
SSY-00008-02	Consult Molex	4 Port PowerCat 6 DataGate Synergy Surface Box, 568A/B - White
SSY-00009-02	Consult Molex	6 Port PowerCat 6 DataGate Synergy Surface Box, 568A/B - White
CSP-00021-**	Consult Molex	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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