Features and Benefits

The PowerCat 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 Synergy Surface Mount Boxes feature the DataGate Category 5E 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 5E 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 5E component compliance.

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

Commerical Standards

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

UL-1863 (Pending)
CSA (Pending)
ETL Verified for Category 5E Component Compliance

Technical Information
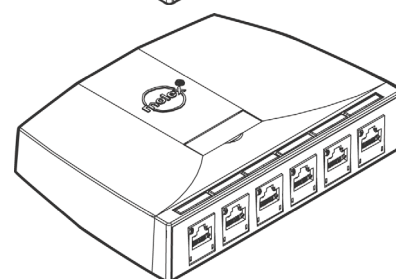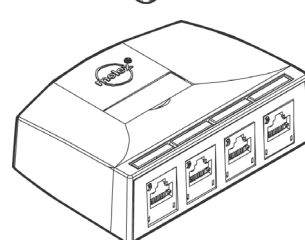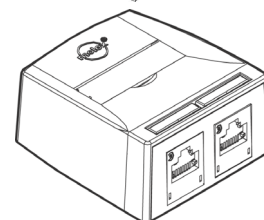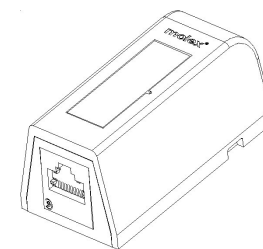
Mechanical Characteristics

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/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

Keystone Jack C5e Performance (dB) Summary @ 100 MHz			
	Cat5E Spec.	Worst Case* Value	Worst Case Margin
Insertion Loss	-0.4	>-0.05	>0.3
NEXT	-43.0	-48.1	5.1
FEXT	-35.1	-45.1	10.0
Return Loss	-20.0	-35.8	15.8

* = Worst value of all 4 pairs or pair combinations

ORDERING INFORMATION

Order No.	SAP No.	Description
SBX-00006-02	Consult Molex	1 Port RJ45 568A/B UTP Cat 5E White
SSY-00010-02	Consult Molex	2 Port RJ45 568A/B UTP Cat 5E White
SSY-00011-02	Consult Molex	4 Port RJ45 568A/B UTP Cat 5E White
SSY-00012-02	Consult Molex	6 Port RJ45 568A/B UTP Cat 5E White
CSP-00021-**	Consult Molex	Connector Icon Label

Insert color code in place of ** in part number when ordering PowerCat 5E 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