

## Features and Benefits

The PowerCat 6 Synergy Surface Mount Box is ideal for use in open office cabling. The Synergy Surface Box offers 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 Shielded Synergy Surface Mount Boxes feature the DataGate™ Shielded connector. The superior connector provides 360° shielded protection by utilising a two piece tin/nickel brass can that encloses the RJ45 IDC. The DataGate Shielded connector includes a unique integral shutter that not only protects it from dust and contaminants, but the ingenious spring-loaded design also ejects improperly seated patch cords.

Suitable for high-speed data transmission, the DataGate Shielded 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 Shielded connector is also backwards compatible with C5E systems. Molex recommend that the full range of PowerCat 6 Shielded products are used in a system to maximise cabling performance.

- Contemporary design
- Protected labelling facility and service I.D. icons
- Ideal for surface mount applications
- 360° shielded RJ45 Jack

## Commercial Standards

TIA/EIA-568-B.2-1, FCC Subpart F 68.5, ISO 60603-7, ISO 11801:2002, EN 50173:2002, ETL Verified for Category 6 Component Compliance

*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: 1.27 micrometres Au/Ni  
Contact Force: 100g minimum  
Plug Retention Force: 6.8kg

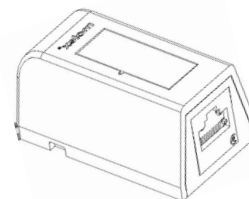
IDC Connector  
Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent  
Operating Life: Minimum 20 reterminations  
Contact Material: Copper Alloy  
IDC Contact Plating: Tin/Lead Plate  
Contact Force: 100g minimum  
Wire Accommodation: 22-24 AWG solid

### Electrical/Optical Characteristics

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

Termination Tool: 110

Shipping Weight: 1 Port: 3g



## ORDERING INFORMATION

Order No.	SAP No.	Description
SBX-00008-02	Consult Molex	PowerCat 6 1 Port Synergy Surface Box RJ45 568A/B Shielded - 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

## MOLEX PREMISE NETWORKS

**Americas**  
Tel: 630 969 4550  
www.molexpn.com

**EMEA**  
Tel: 44 (0)2392 205800  
www.molexpn.co.uk

**APAC**  
Tel: 61 3 9971 7111  
www.molexpn.com.au