molex

PowerCat 6 MOD-Clip DataGate Jacks

Features and Benefits

The PowerCat 6 MOD-Clip DataGate jack is designed to maintain clean secure connections. The RJ-45 jack features a patented 'spring-loaded shutter' which protects it from dust and contaminants as well as provides tactile feedback – the spring-loaded shutter pops out an improperly seated patch cord – all with single-handed plug-in and removal.

The MOD-Clip DataGate jacks utilise patented IDC V-shaped contacts that flex not fatigue when terminated and is uniquely designed to allow for rear and side entry cable termination. The provision of side entry termination ensures bend radius is maintained in installations where there is limited space - optimising the performance of your Category 6 solution.

The MOD-Clip DataGate jack is engineered for use with Clipsal®, HPM® and PDL® wallplate systems.

- Patented Spring-Loaded Shutter:
  – prevents incomplete mating
  – protects from dust and contaminants
- Patented IDC V-shaped contacts that flex not fatigue when terminated
- Features pointed IDC towers to speed termination and enhance cable retention
- Dual colour-coding allows for 568 A/B wiring configuration
- Can be terminated using industry standard punchdown tools
- RJ-11 & RJ-12 compatible
- Suitable for use within Clipsal, HPM and PDL system of wallplates

Commerical Standards

TIA/EIA-568-B.2-1 Component Compliant
FCC Subpart F 68.5 Compliant
IEC-603-7 Compliant
IEC-60603-7 Compliant
AS/ACIF S008 Compliant
ISO 11801 Class E Compliant
ETL Verified for Category 6 Component Compliance

Pending Approvals
UL-1863
CSA
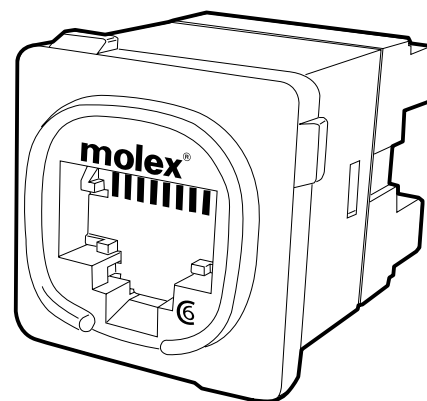
Technical Information

Mechanical Characteristics
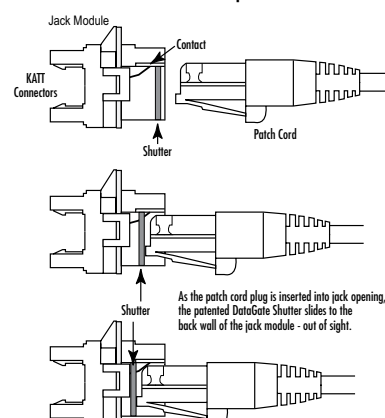
Jack Connector
Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent
Operating Life: Minimum 750 insertion cycles
Contact Material: Copper Alloy
Contact Plating: 50µ" Gold/100µ" Nickel
Contact Force: 100g minimum
Plug Retention Force: 15 lb.
IDC Connector
Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent
Operating Life: Minimum 200 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: 20 milliohms
Initial Contact Resistance: 2.5 milliohms
Insulation Resistance: >100 Megaohms
Dimensions (mm):
23.5(H) x 17.9(W) x 30.53(D)
Shipping Weight: 26.35g

DataGate Shutter Operation

As the patch cord plug is inserted into jack opening, the patented DataGate Shutter slides to the back wall of the jack module - out of sight.

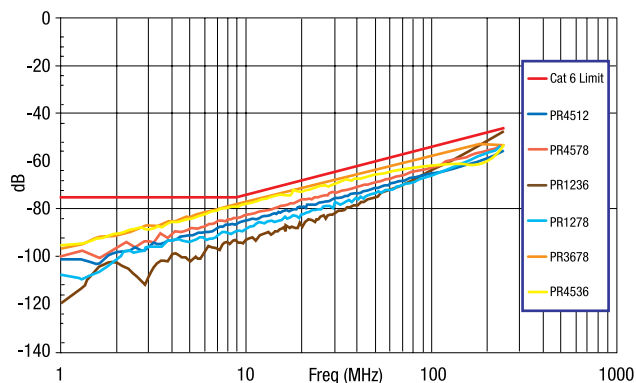This information is correct at the time of publication, specifications are subject to change

Technical Information
Mechanical Characteristics
ETL Category 6 Component
Compliance Graphs Shown

DataGate Connector - NEXT (Typical)

Legend: Cat 6 Limit, PR4512, PR4578, PR1236, PR1278, PR3678, PR4536

DataGate Connector - Return Loss (Typical)

Legend: Cat 6 Limit, BL, OR, GR, BR

DataGate Connector - ꓒEXT (Typical)

Legend: Cat 6 Limit, PR4512, PR4536, PR4578, PR1236, PR1278, PR3678, PR1245, PR3645, PR7845, PR3612, PR7812, PR7836
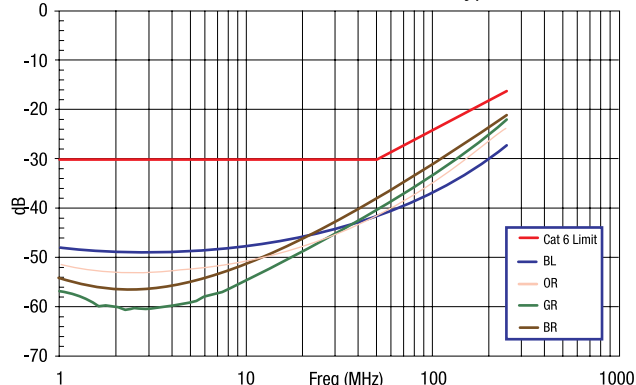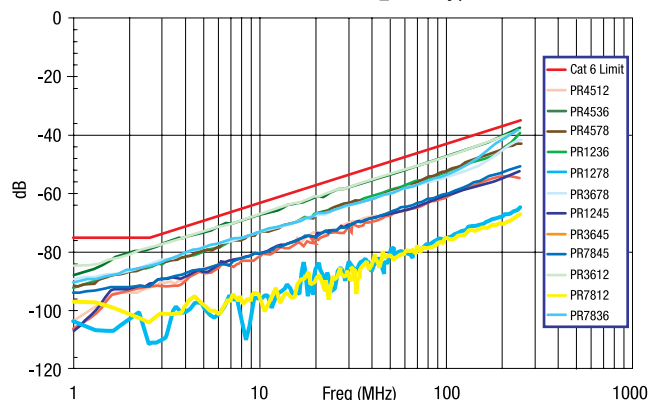
ORDERING INFORMATION

Order No.	SAP No.	Description
MMC-00010-**	Consult Molex	PowerCat 6 MOD-Clip DataGate Jack, 568A/B

DataGate Colours - Replace the (**) in the part number with one of the following:
02 = White, 04 = Black, 08 = Light Grey, 0C = Red, 0H = Blue, 0J = Green, 0K = Yellow

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