

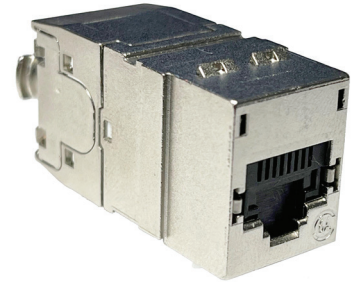
PowerCat 6A DataGate Shielded Straight and Side Entry Jack >

The Category 6A DataGate Shielded Jack is a key component of the PowerCat 6A shielded end-to-end solution.

The PowerCat 6A DataGate jack offers superior alien crosstalk suppression, excellent insertion loss, and provides enhanced electromagnetic interference (EMI) protection by utilizing robust die cast zinc alloy jack body housing. This shielded jack also features a unique spring loaded shutter that not only protects it from dust and contaminants, but the ingenious spring loaded design also ejects improperly seated patch cords. The shielded jack is dual colour coded for either 568A or 568B wiring schedules. The Molex C6A DataGate RJ45 360 ° shielded jack accommodates flexible cable routing by allowing 90 ° or 180 ° cable entry.

The PowerCat 6A DataGate Shielded Jack was specifically designed for highspeed 10GB data transmission. This unique modular jack is also backwards compatible with Shielded C6 and C5e systems.

Molex recommends that the full range of PowerCat 6A Shielded products be used in an end-to-end system to maximize cabling performance. This system is compliant with the ISO/IEC 11801 Amd 1 and ANSI/TIA-568.2-D requirements for the support of 10GBASE-T transmission.



FEATURES & ADVANTAGES

Robust die cast zinc alloy housing

360°Shielded

Accommodates flexible cable routing by allowing 90 ° or 180 ° cable entry

Dual Color coding allows 568A/B wiring

Patented IDC (insulation displacement contact) V-shaped contacts that flex not fatigue when terminated

Spring-Loaded Shutter

Accepts color coded port identification labels

Category 6A performance when installed as a complete PowerCat Shielded System

Spring loaded cable/drain wire clamp

Cable can be terminated in 3 directions – Straight, on left or right side of jack

Complies with ISO/IEC 11801 and TIA Cat 6A channel and PL requirements

Jack can be terminated with 4 Pair Termination Tool or standard IDC Punch Down Tool

RoHS Compliant

Molex DataGate jacks may accommodate both solid (AWG22 to AWG24) and stranded (AWG26) cables

www.molex.com/products/copper/cat6a/

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SPECIFICATIONS

Commercial

ANSI/TIA-568.2-D-2018
ISO 11801:2017
IEC 60603-7
UL 1863
CSA C22.2

Mechanical

RJ45 Connector

Connector Housing: Zinc Alloy plated bright Ni/Cu
Operating Life: Minimum 750 insertion cycles
Contact Material: Copper Alloy
Contact Plating: 50µ Gold/ 50µ Nickel minimum
Contact Force: 100g minimum
Plug Retention Force: 6.8kg minimum

IDC Connector

Housing: Thermoplastic, UL94V-0
Operating Life: Minimum 20 reterminations
Contact Material: Copper Alloy
IDC Contact Plating: Matte Tin
Contact Force: 100g minimum
Wire Accommodation: 22-24 AWG solid and 26 AWG stranded

Electrical

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

Physical

Minimum Backbox Depth Requirement: refer table
Shipping Weight: 25g (0.88 oz)
Dimensions: 180° Entry: 17.7mm(W) x 23.9mm(H) x 42.7mm(L)
90° Entry: 21.1mm(W) x 23.9mm(H) x 37.0mm(L)

PoE

Our PowerCat 6A system is suitable for the most demanding PoE applications:

IEEE 802.3bt from Type 1 to Type 4, and CISCO UPoE+
HD Base-T PoH up to 100W
RP3 compliant as defined by EN 50174-2:2018, ISO/IEC 14763-2:2019 and AS/NZS 14763.2:2020

Notes:

For new installations of PoE Type 3 / Class 5 and above that wish to be eligible for the Molex 25 year Application Assurance Warranty, we require Category 6A cable to be used throughout.

To confirm your PoE / RP3 cabling design is eligible for the Molex 25 year Application Assurance Warranty, your design must be verified and validated with the Molex PoE Calculator. Read more <https://www.molexces.com/poe-calculator>

Molex recommends that the PoE feature on an individual switch port are power disabled prior to unplugging the associated powered Device.

Molex recommends that the full range of PowerCat 6A products be used in a system to maximize cabling and PoE performance. Details on Molex requirements for Warranty can be found at <https://www.molexces.com/about-us/our-warranty/>

Please note:

While termination of the jack is possible with the 110 punch-down tool, tight tolerances within the outlet design could result in an unintentional short between the conductor wires and the metal rear housing. Therefore, Molex strongly recommends the use of the 4-pair termination tool to ensure even, consistent terminations, and minimize the risk of this occurring.

PowerCat 6A DataGate Shielded Straight and Side Entry Jack

Country	Minimum Backbox Depth
Australia and New Zealand	44 mm
China	44 mm
Europe, Middle East and Africa Wall Outlet Bezel/Module Styles:	
Euromod II 25 x 50mm	32 mm
Mod-Snap III 25mm x 38.5	44 mm
Contura 22 x 50mm	44 mm
Legrand ® Compatible 22.5 x 45mm	44 mm
DIN 49075 50 x 50mm	44 mm
India	50 mm
Russia	85 mm
USA	3.35 in

ORDERING INFORMATION

Order No.	SAP No.	Description
KSJ-00096-01	183010132	Cat6A Shielded DataGate Jack 568A/B Universal Shutter - ALMOND
KSJ-00096-02	183010133	Cat6A Shielded DataGate Jack 568A/B Universal Shutter - WHITE
KSJ-00096-04	183010134	Cat6A Shielded DataGate Jack 568A/B Universal Shutter - BLACK
KSJ-00096-BL	183010135	Cat6A Shielded DataGate Jack 568A/B Universal Shutter - BLUE
KSJ-00096-08	183010136	Cat6A Shielded DataGate Jack 568A/B Universal Shutter - GRAY
KSJ-00096-GR	183010137	Cat6A Shielded DataGate Jack 568A/B Universal Shutter - GREEN
KSJ-00096-05	183010138	Cat6A Shielded DataGate Jack 568A/B Universal Shutter - IVORY
KSJ-00096-RG	183010139	Cat6A Shielded DataGate Jack 568A/B Universal Shutter - ORANGE
KSJ-00096-PP	183010140	Cat6A Shielded DataGate Jack 568A/B Universal Shutter - PURPLE
KSJ-00096-RD	183010141	Cat6A Shielded DataGate Jack 568A/B Universal Shutter - RED
KSJ-00096-YL	183010142	Cat6A Shielded DataGate Jack 568A/B Universal Shutter - YELLOW
KSJ-00096-PK	183010169	Cat6A Shielded DataGate Jack 568A/B Universal Shutter - PINK
Termination Tool		
31.0011	182520002	4 Pair Termination Tool Frame
31.0015	182520015	4 Pair Termination Lacing Head C6A

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