

PowerCat 6 DataGate Jack >

The PowerCat 6 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. DataGate jacks utilize patented IDC V-shaped contacts that flex not fatigue when terminated.

The DataGate jack is engineered for use across a broad range of Molex products.

FEATURES AND ADVANTAGES

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 color-coding allows for 568 A/B wiring configuration

Can be terminated using industry standard punch-down tools

RJ-11 compatible

Molded category identification on jack face as well as optional port identification icons

USOC Wiring Sequences Available

RoHS Compliant



www.molex.com/products/copper/cat6

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SPECIFICATIONS

MECHANICAL

Jack Connector

Plastic Housing:

Thermoplastic UL94V-0 rated or equivalent

Operating Life:

Minimum 750 insertion cycles

Contact Material: Copper Alloy

Contact Plating:

50 μ " Gold/100 μ " Nickel

Contact Force: 100g minimum

Plug Retention Force:

11 lbf minimum

IDC Connector

Plastic Housing:

Thermoplastic UL94V-0 rated or equivalent

Operating Life:

Minimum 20 reterminations

Contact Material: Copper Alloy

IDC Contact Plating: Tin matte finish

Wire Accommodation:

22-24 AWG solid

ELECTRICAL

Interface Resistance: 20m Ω

Initial Contact Resistance: 2.5m Ω

Insulation Resistance:

>100 Megohms

PHYSICAL

Dimensions:

23.9mm (H) x 17.8mm (W) x 32.3mm (D)

(0.94"H x 0.70"W x 1.27"D)

Shipping Weight: 14g (0.49 oz)

COMMERCIAL 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

UL listed

AS/CA S008:2020 25kg

PoE

Our PowerCat 6 system is suitable for PoE applications as defined below:

IEEE 802.3bt from Type 1 to Type 4, and CISCO UPoE+

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 6 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/>

ORDERING INFORMATION

| Order No. | SAP No. | Description | Color |
|--------------|-----------|------------------------------------|--------|
| KSJ-00018-02 | 181970080 | DataGate Jack Category 6 8W 568A/B | White |
| KSJ-00018-04 | 181970081 | DataGate Jack Category 6 8W 568A/B | Black |
| KSJ-00018-08 | 181970085 | DataGate Jack Category 6 8W 568A/B | Gray |
| KSJ-00018-BL | 181970086 | DataGate Jack Category 6 8W 568A/B | Blue |
| KSJ-00018-GR | 181970087 | DataGate Jack Category 6 8W 568A/B | Green |
| KSJ-00018-RD | 181970088 | DataGate Jack Category 6 8W 568A/B | Red |
| KSJ-00018-RG | 181970089 | DataGate Jack Category 6 8W 568A/B | Orange |
| KSJ-00018-YL | 181970090 | DataGate Jack Category 6 8W 568A/B | Yellow |

www.molexces.com/products/copper/cat6