

Category 6A Shielded IP67 Connectivity Solution

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The Molex Category 6A IP67 connectivity solution is designed to support 10Gb/s data transmission in work areas subject to heat, fluids, dust and humidity.

The need for a Category 6A connectivity solution designed for areas outside the normal office environment is growing. Data transmission is now ubiquitous in laboratories, food processing plants, restaurant kitchens and sport/leisure point of sale venues. Many healthcare, manufacturing and trade processes generate heat, dust, humidity and fluids that represent a significant threat to a standard work-area data connection.

Molex Category 6A shielded IP67 work area RJ45 Jack and Patch Cord connectivity solution quickly and easily protect the vital but vulnerable network connection from tough environmental conditions using rugged, quarter turn lock, mated housings.



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Features and Advantages

C6A Shielded IP67 Jack

High impact flame retardant plastic quarter turn lock housing IEC 61076-3-106 compliant

Robust die-cast zinc alloy category 6A jack housing

Dual color coding allows 568A/B wiring

IEEE 803.2bt PoE compliant

C6A Shielded IP67 Patch Cords

High impact flame retardant plastic quarter turn lock housing IEC 61076-3-106 compliant

4 Pair 26 AWG stranded copper wire

TPE/PVC double sheath

High performance shielded C6A plug

Mated Connection

Fits into stainless steel faceplates designed for IP67 housings

Avoids accidental disconnection

Visual and audible quarter turn locking

Resistant to dust, water and heat

Patch cords feature strain-relief "spring" like boot design for excellent flexibility and bend radius protection

Meets channel requirements of ANSI/TIA-568-D.2 and ISO/IEC 11801 Category 6A four connector channel performance when installed with Molex Category 6A shielded Keystone jack part no. KSJ-00079 only

Backbox

Stainless Steel front plate for abrasion resistance

Rubber gasket for protection against dust and water ingress

Cable entry glands seal and protect jack terminations

Polyacrylic ABS backbox for durability and strength.

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Specifications

COMMERCIAL STANDARDS:

ANSI/TIA-568-D.2 Cat 6A
ISO/IEC 11801 Class E_A
IEEE 802.2an 10GBASE-T
IEEE 802.3bt Type 3 and 4
IEC 60603-7
IEC 61076-3-106
UL1863
IEC 60512-99-001
IEC 60512-99-002

RoHS Compliant

Backbox dimensions:

128mm (W) x 128mm (L) x 66mm (D)

MECHANICAL

Ingress Protection Rating: 67
First digit 6: Full protection against dust and other particulates.
Second digit 7: Protection against full immersion for up to 30 minutes at depths between 15 cm and 1 metre (limited ingress permitted with no harmful effects).

C6A Shielded Jack

Operating Life: 750 insertion cycles
Contact Material: Phosphor Bronze
Contact Plating: 50 micro inches gold

IDC Contacts: Phosphor Bronze alloy
IDC Housing: Thermoplastic UL94V-0
Wire Accommodation: 22-24AWG solid

Electrical

Insulation Resistance: <math><500\text{M}\Omega\text{min. @ }100\text{V d.c.}</math>
Dielectric Withstand Voltage: 1000V d.c. or a.c.
D.C. Resistance: 0.2 Ω max.

Temperature Range:

Storage: -40°C to +70°C
Operating: -25°C to +55°C

C6A Shielded Patch Cord

Plug

Durability: 750 mating cycles
Housing Material: Polycarbonate UL94V-0 or 94V-2 (plug & boot)
Colour: Clear
Contact Material: Phosphor Bronze
Contact Plating: 50 micro inches gold
RJ45 plug dimensions compliant with IEC 60603-7

Cable

Conductor Size: 26AWG stranded bare copper wire
Construction: U/FTP
Screen Material: Aluminum/braided tinned copper wire
Drain Wire: tinned copper wire
Sheath: Inner PVC, Outer TPE
Outer Diameter: 7.2mm

Electrical

Insulation Resistance: <math><500\text{M}\Omega\text{ min. @ }100\text{V d.c.}</math>
Dielectric Withstand Voltage: 1000V d.c. or a.c. a.c. peak contact to contact @ 60Hz for 1min.

PHYSICAL

Stainless Steel Plate and Backbox Material

Backbox: Polyac ABS
Stainless Steel Plate: SUS304
Gasket: Rubber

Ordering Information

Order No.	SAP No.	Description
KSJ-00092	183010127	Jack C6A Shielded IP67 568A/B
PCD-07121-BK	183162207	Patch Cord C6A Shielded IP67-RJ45 1m Black
PCD-07129-BK	183162325	Patch Cord C6A Shielded IP67-RJ45 1.5m Black
PCD-07122-BK	183162208	Patch Cord C6A Shielded IP67-RJ45 2m Black
PCD-07123-BK	183162209	Patch Cord C6A Shielded IP67-RJ45 3m Black
PCD-07124-BK	183162210	Patch Cord C6A Shielded IP67-RJ45 5m Black
PCD-07125-BK	183162211	Patch Cord C6A Shielded IP67-IP67 1m Black
PCD-07130-BK	183162326	Patch Cord C6A Shielded IP67-IP67 1.5m Black
PCD-07126-BK	183162212	Patch Cord C6A Shielded IP67-IP67 2m Black
PCD-07127-BK	183162213	Patch Cord C6A Shielded IP67-IP67 3m Black
PCD-07128-BK	183162214	Patch Cord C6A Shielded IP67-IP67 5m Black
SBX-00016	181320013	BACKBOX 1P IP67 Stainless Steel Plate 128 x 128mm White
SBX-00017	181320014	BACKBOX 2P IP67 Stainless Steel Plate 128 x 128mm White
SBX-00018	181320015	BACKBOX 4P IP67 Stainless Steel Plate 128 x 128mm White

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