

# Category 6A Shielded Field Termination Plug >

**The Molex Category 6A shielded field termination plug is designed to support 10GB networks and can be easily terminated using parallel jaw pliers.**

Termination is accomplished by placing the conductors into the proper wire slots in the wire cap. Place the wire cap onto the plug, using pliers to squeeze the wiring cap. All eight conductors are simultaneously terminated when the wire cap is squeezed. This process ensures quick, consistent, reliable terminations. The IDC is designed to accommodate different diameter conductors from 22 AWG-26 AWG Solid Wire. The Field Terminable Plug meets TIA-568.2-D Category 6A component performance, Cat 5e/6 and 6A Direct Attach link and channels.

Ideal for use to provide high-bandwidth wireless access points and other IP-enabled devices such as: Surveillance cameras, APs and infrastructure monitoring. A field modular plug that is simple to terminate and meets Cat 6A performance requirements and is ideal for use with devices, premise automation such as lighting, HVAC and other environmental sensor applications. Available in straight and right angled configuration.



KSP-00001



KSP-00002

## FEATURES AND ADVANTAGES

Supports 10GB networks

Designed to accommodate conductors from 22 AWG - 26 AWG

IP 20 rating; TIA-568.2-D Cat 6A MPTL compliant; Backward compatible with C6/C5e MPTL

UL approved

Ideal for wireless access points and IP-enabled devices

PoE Compliant (See Specifications below)

Tool-free, no punch down tool required

RoHS compliant

Plug to plug not supported

[www.molex.com/products/copper/cat6a](http://www.molex.com/products/copper/cat6a)

# Category 6A Shielded Field Termination Plug

## SPECIFICATIONS

### Reference information

#### Commercial Standards:

IEC 60603-7-5  
 UL 1863, UL 2043  
 CSA C22.2  
 TIA-568.2-D Cat 6A  
 TIA-1096-A  
 IEC-60603-7-51  
 IEEE 802.3 bt POE Type 3 / Type 4 with 90W at PSE Side  
 EN 50173

### Mechanical

**Transmission performance:** Cat 6A/  
 Class EA Direct attach link and channels

**Plug protection category:** IP 20

**Wiring label:** TIA 568A/B & PNO

### Termination capability:

**Solid wire:** 22-26 AWG

**Stranded wire:** 22-27 AWG

**Re-termination capability:** 5 times

**Supporting cable diameter:** 6-9mm

**Plug Housing:** Zinc Alloy  
**Plug Pins:** Phosphor bronze with 50u" gold plating  
**Durability:** 750 mechanical cycles

### Electrical

**Current rating:** 1.5A  
**Dielectric withstanding voltage:** 1000V DC  
**Insulation resistance:** 500M  $\Omega$  min.  
**Contact resistance:** 20m  $\Omega$  max

### 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/>

## ORDERING INFORMATION

Order No.	SAP No.	Description
KSP-00001	0183010086	Category 6A Shielded Field Termination Plug
KSP-00002	0180190012	Category 6A Shielded Field Termination Plug Right Angle

[www.molexces.com/products/copper/cat6a](https://www.molexces.com/products/copper/cat6a)

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Order No. KSP-00001\_ KSP-00002

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