

PowerCat 6A Shielded Pre-Terminated Cable Assemblies >

Molex PowerCat 6A Shielded Pre-Terminated cable assemblies are ideal for use in data centers and high speed network environments. The PowerCat 6A pre-terminated shielded assemblies are designed to support secure-high speed 10GBASE-T and is backward compatible with 10/100/1000BASE-T networks. These cable assemblies are made from high quality Cat 6A U/FTP 4-pair shielded 23AWG solid copper wire and are pre-terminated to robust die cast zinc DataGate C6A shielded shuttered jack which provide superior alien crosstalk (AXT) suppression, and provides enhanced electromagnetic interference (EMI) protection. These pre-term cable assemblies are available as jack-to-jack, plug-to-jack, or plug-to-plug. The six individual cables are bundled together with spiral wrapping placed every meter. Plates you can configure your fiber system to suit all fiber applications.



FEATURES & ADVANTAGES

Factory terminated and tested

Up to 80% faster to install than traditional field installation

Cat 6A U/FTP 4-pair individually shielded 23 AWG solid copper cable pre-terminated with DataGate RJ45 shielded shuttered jacks at each end

Fully compliant with ISO/IEC 11801 Amd.1 and Amd.2 Ed. 2.0 Class EA

LS0H sheath

10G performance when installed as a complete PowerCat 6A shielded system

Field AXT testing not required because cables are compliant by design

RoHS compliant

Pre-terminated PowerCat 6A DataGate shielded jacks snap into DataGate unloaded patch panels

Cable bundles with pulling eye available upon request

www.molex.com/products/copper/pre-terminated/

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SPECIFICATIONS

Commercial Standards

ISO/IEC 11801 2nd Ed Amd 1 & Amd 2
Class EA
TIA-568-C.2 Cat 6A

Fire Propagation Tests

LS0H: IEC 60332-1 IEC 61034-2

Mechanical

Cable

Conductor size: 23 AWG solid copper wire
Screen material: Aluminum/polyester shield with tinned copper drain wire
Nominal O.D. (1 cable): 7.0 mm
Nominal O.D. (6 cables): 22 mm
Sheath: Low Smoke Zero Halogen (LS0H)
Bend radius: 8X O.D. minimum
Operating temperature range: -20°C to 60°C

Connectors

Operating life: 750 insertion cycles

Housing: Zinc alloy plated bright Ni/Cu
Contact material: Copper Alloy
Contact plating: 1.2700µm Au/1.2700µm Ni minimum
Contact force: 100g minimum
Plug retention force: 6.8kg minimum

RJ45 receptacle and plug dimensions compliant with IEC 60603-7 and FCC 47 Part 68

Electrical

Max voltage: 150 VAC (max)
Max current: 1.5A @ 25°C

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.

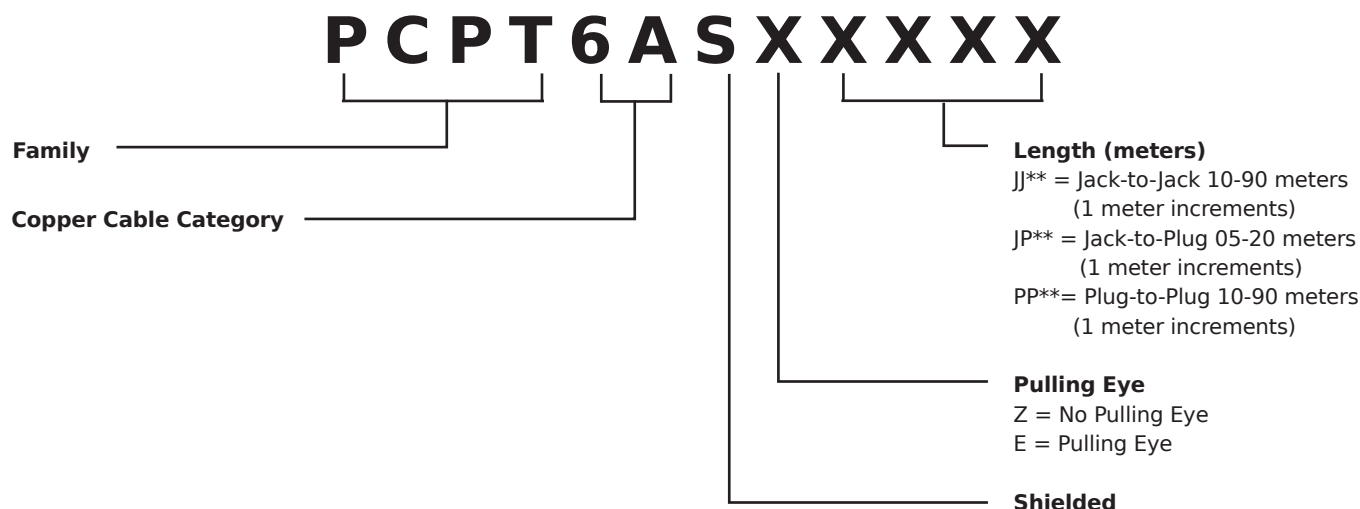
Molex recommends that the full range of PowerCat 6A products be used in a system to maximize cabling and PoE performance. Details on Molex requirements for Warranty can be found at <https://www.molexces.com/about-us/our-warranty/>

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ORDERING INFORMATION

Part No. Matrix - Substitute the correct code number or letter to determine the assembly instruction



Example:

To order a Cat 6A shielded jack-to-jack bundle of 6 cables 32 meter LSOH pre-term assembly without pulling eye, the part number would be PCPT6ASZJJ32

ORDERING INFORMATION - DATAGATE PATCH PANELS (SOLD SEPARATELY)

Order No.	SAP No.	Description
PID-00258	180810031	PowerCat 24 Port DataGate Patch Panel, Unloaded UTP or Shielded - 1U - Metric fixing kit
	180810072	PowerCat 24 Port DataGate Patch Panel, Unloaded UTP or Shielded - 1U - Imperial fixing kit
PID-00259	180810032	PowerCat 24 Port DataGate Angled Patch Panel, Unloaded UTP or Shielded - 1U - Metric fixing kit
	180810073	PowerCat 24 Port DataGate Angled Patch Panel, Unloaded UTP or Shielded - 1U - Imperial fixing kit
PID-00260	180810033	PowerCat 48 Port DataGate Patch Panel, Unloaded UTP or Shielded - 2U - Metric fixing kit
	180810074	PowerCat 48 Port DataGate Patch Panel, Unloaded UTP or Shielded - 2U - Imperial fixing kit
PID-00261	180810034	PowerCat 48 Port DataGate Angled Patch Panel, Unloaded UTP or Shielded - 2U - Metric fixing kit
	180810075	PowerCat 48 Port DataGate Angled Patch Panel, Unloaded UTP or Shielded - 2U - Imperial fixing kit

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