

Copper Patch Cord

CAT 6/6A Hi-Flex Industrial Assemblies



Channel Certified (QC)

Industrial Copper Patch Cord, RJ45 to RJ45, Heat Shrink Boots, CAT 6/6A 24 AWG Stranded Copper, 4 Pair, SF/UTP, CMX Outdoor.

Features

Hi-Flex Industrial Assemblies are manufactured in the USA from high quality components. Assemblies provide a reliable Industrial Ethernet link for harsh environments and critical applications. The High Flexibility cable design is an ideal fit for applications with limited space or continuous motion. Cable jacket CMX Outdoor rated with UV, Weld Spatter, and Oil Resistance. The Shielded assembly is suited for environments where noise interference caused by EMI and RFI is a concern. Assemblies tested for continuity, shorts, wire mapping and overall integrity.

Applications

Built for Industrial Applications, such as factory equipment and robotics, where there is a wide range of temperatures, vibration, electrical noise, and contaminants. Cable Voltage Rating of 600V ensures electrical safety in industrial network designs which may include power and control systems. Applications also include data, voice, and video distribution systems. Designed for high-speed 10-Gigabit Ethernet networks. Assembly meets requirements associated with alien crosstalk in bundled applications.

Use for:

- 10GBASE-T and legacy networks
- LAN / WAN
- Power Over Ethernet: PoE, PoE+, UPoE, PoH

Meets CAT 6A Channel and PoE requirements to 83 Meters.

Agency / Standard Compliance

Cable:

- RoHS/REACH Compliant
- ANSI/TIA 568-C.2
- NEC (UL) TYPE CMX Outdoor CM
- CEC C(UL) TYPE CMX Outdoor CM
- UL AWM Style 2463

Connector:

- RoHS/REACH Compliant
- ANSI/TIA 568
- IEC 60603-7
- TIA 1096
- UL 94V-0 Flame Rating

Durability

For industrial/outdoor use. Outdoor (CMX) jacket has been tested for UV, weld splatter, and cutting/machining oil resistance. Assemblies employ cables which have been flex tested to mimic unsupported rolling bends, much like robot arm motion. Innovative cross-web design allows for maximum conductor pair separation, increasing electrical performance. Stranded wire design increases wire flexibility and flex life.



Testing

Cable and connectors meet or exceed industry mechanical and electrical parameters for performance and reliability.

Patch cords are channel certified as :

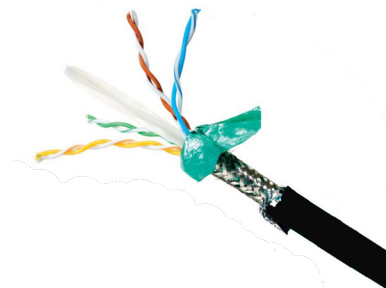
- ANSI/TIA Category 6A
- ISO/IEC 11801 Class E_A (500 MHz)

Parameter

Specification

Cable Outside Diameter	8.25 mm (0.325 in) nom.
Cable Jacket Material	Thermoplastic Elastomer
Cable Jacket Color	Black
Cable Gauge	24 AWG (7x32) Stranded
Nominal Weight per 1000 ft	22 kg (48.5 lbs)
Cable Sweep Frequency	500 MHz
Voltage Rating, Max.	600V
D.C. Resistance, Max.	14.0 Ω
Insertion Loss	1.2 dB max.
Operating Environment, Max	75°C (167°F)
Operating Environment, Min	-40°C (-40°F)
Temperature Rating, Min	-20°C (-4°F) per UL 444 Cold Bend

SF/UTP Cable Depiction



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