

MLX Power Connectors



MLX Power Connectors provide a cost-effective solution for various industrial applications in wire-to-board and wire-to-wire combinations and offer greater design flexibility in mating with existing wire harnesses, connectors and PCB headers



MLX Power Connector



Features and Advantages

Fully isolated terminals

Protect against potential damage of the contacts during handling and mating and provides electrical isolation

Circular contacts and positive locking of terminals

Ensure terminals are fully seated in the housing to reduce terminal back-out

Design-flexible plugs and housings

Allow easy design into wire-to-board applications

Terminals and headers available in Gold and Tin plating

Deliver different cost options while meeting performance needs

Slit-pin design of male terminals

Potentially reduces mating forces

Positive-lock housing

Ensures mated connector assemblies will not accidentally disengage and provides an audible click while mating

Polarized cap and plug housings

Helps caps and plugs mate in one alignment

Plugs are available in panel mount and free-hanging versions

Potentially reduces costs by enabling use of smaller PCBs with fewer drilled holes

Industry-standard plugs, caps and terminals

Allow for design flexibility

Applications

Commercial Vehicle

- ATVs
- Boating
- Construction equipment
- Heavy equipment systems
- Marine equipment
- Recreational vehicles

Consumer

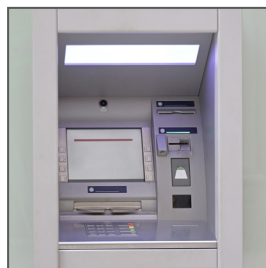
- ATMs
- Refrigerators

Industrial

- Automation equipment
- Conveyor belts

Networking

- Fan tray assemblies
- Rack-mount servers



ATM



Rack-Mount Server



Mini Excavator

Specifications

REFERENCE INFORMATION

Packaging:
Terminals: Reel and bag
Headers: Bag and carton
Housings: Bag and carton
UL File No.: E29179
CSA File No.: LR19980
Mates With: MLX Connector Housings
Use With: MLX Terminals only
Designed In: Millimeters
RoHS: Compliant
Halogen Free: Yes
Glow Wire Capable: Yes

ELECTRICAL

Voltage (max.): 600V
Current (max.): 20.0A
Contact Resistance: 3.5 milliohms
Dielectric Withstanding Voltage: 5000V AC
Insulation Resistance: 1000 Megohms

MECHANICAL

Contact Insertion Force (max.): 6N
Contact Retention to Housing (min.): 2.2N
Durability (min.): 50 cycles for Tin

PHYSICAL

Housing:
Plugs and Receptacles: Nylon UL 94 V-2 and 94 V-0
Headers:
Polyamide Nylon 94 V-2 and Polyester 94 V-0
Contact: Brass/Phosphorous Bronze
Plating:
Contact Area —Tin or Gold
Solder Tail Area —Tin
Underplating — Nickel
PCB Thickness: 1.57mm and 0.90mm
Operating Temperature: -55 to +105°C