

MX150L Industrial Sealed Connector System >

Designed for commercial-vehicle, industrial, marine and other harsh environments, the pre-assembled MX150L Industrial Sealed Connector System exceeds IEC IP67 requirements while simplifying assembly operations and providing economical interconnect capability.



ADVANTAGES AND FEATURES

Meets stringent industry standards for industrial vehicles

with design exceeding IP67 requirements and conforming to UL 1977. MX150L is not intended for automotive applications with requirements such as USCAR-2, USCAR-25, GMW3191, AK Testing, J2030, Volvo Technology Requirements and Toyota Connector Spec (TCS).

Offers labor and cost savings

by delivering pre-assembled connector housings and terminal position assurance (TPA) components shipped in one-piece units

Simplifies installation

with a simple crimp, poke and plug application that avoids the need to crimp individual wire seals

Provides design flexibility

by offering a range of solutions including wire-to-board, wire-to-wire and wire-to-panel connection capabilities

Current	Up to 40.0A
Voltage	Up to 600V
Wire Size	0.34 to 10.00mm ² (8 to 22 AWG) 600V UL-style wire
Number of Circuits	2 to 12, 16
Ingress Protection Rating	IP67
Operating Temperature	-40 to +125°C

Improves reliability of connection operations and eases assembly

with audible and tactile clicks on insertion, extraction and mating to confirm a proper connection

Prevents water ingress into connector system during submersion in up to 1.0m (3 feet) of water

using sealed panel-mount plugs equipped with blind-hole boss feature, reducing extra hardware previously required for waterproof mating

Helps ensure reliability by locking crimped terminal leads into the connector

with integral terminal position assurance (TPA) that will not seat into final lock position, and will not latch the connector, if the terminal is not properly locked into position

Supports a wide range of current requirements

with 10.00mm² (8 AWG) terminals for 40.0A applications and 4.00 to 6.00mm² (10 to 12 AWG) terminals for 30.0A applications



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MARKETS AND APPLICATIONS

Electrical and Power

Generators
Energy-efficient infrastructure
Energy storage
Inverters
Electric vehicle chargers

Commercial Vehicle

Recreational vehicles
Industrial trucks
Lift trucks
Automated guided vehicles
Golf carts
Marine

Industrial Automation

Chillers
Heaters
Welders
Pressure washers
Machine tools
Electronic signage



Energy Storage



Industrial Trucks



Machine Tools

SPECIFICATIONS

Reference Information

Packaging: Tray for headers
Designed in: Inches
UL File No.: E152602
RoHS: Yes
Flammability Rating: 94V-0

Electrical

Voltage (max.): 600V
Current (max.): 40.0A (depending on wire size)
Dielectric Withstanding Voltage (min.): 2,200V AC
Insulation Resistance (max.): 1,000 Megohms

Mechanical

Circuit Count: 2 to 12, 16
Ingress Protection Rating: IP67
Mating Force (max.): 75N
Unmating Force (max.): 75N
Durability:
Tin plating – 25 cycles
Gold plating – 100 cycles

Physical

Housing: SPS glass-filled crystalline polymer
Gaskets and Seals: Silicone
Contact: Copper Alloy
Plating: Tin (Gold available)
Operating Temperatures: -40 to +125°C

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