MX150 CONNECTOR SYSTEM

PRODUCT REFRESH

FEBRUARY 2023
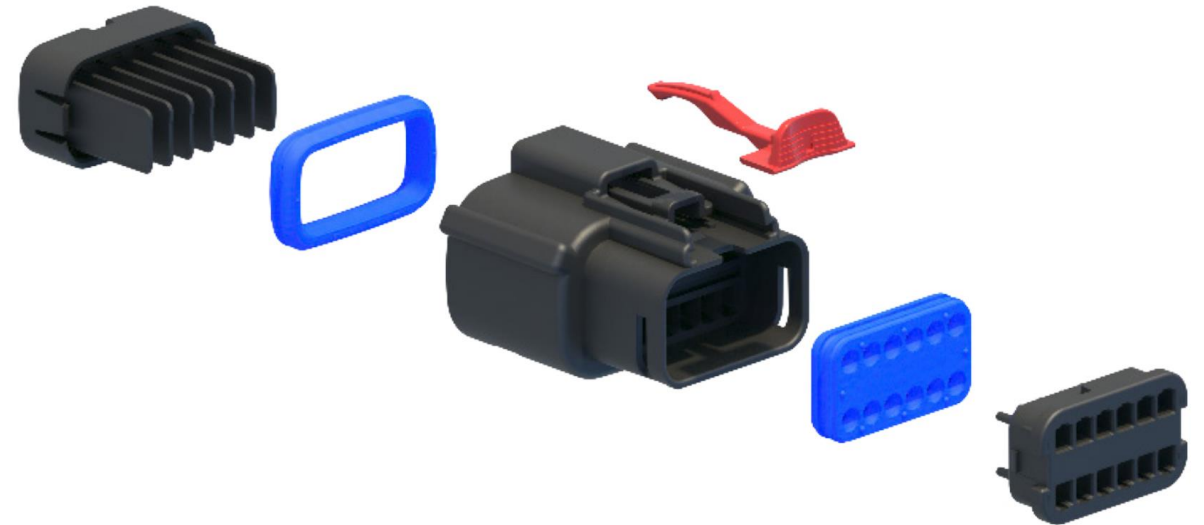
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MX150 SEALED AND UNSEALED CONNECTOR SYSTEM

In the Automotive and Commercial Vehicles industries, engineers are continually challenged to provide more electronics in the same space, accommodating faster assembly times to reduce production costs.

The MX150 Connector System offers a reduced package size over traditional USCAR connectors and is designed for simple and secure assembly.

Product Availability

- Wire-to-wire Mat Sealed Systems

- Mat Sealed Compatible Systems

- Wire-to-wire Cable Sealed Systems

- Wire-to-wire Unsealed Systems

- Accessories

    - Terminals
    - Backshells
    - Cavity Plugs

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KEY PRODUCT MESSAGES

Complete System Solution

MX150 offers a complete package solution for 1.50mm connector systems. Designers can choose compatible male and female connectors and terminals that are provided in various plating options to meet specific application needs.

Flexibility & Space Saving

Space and mass savings are more crucial than ever for internal combustion engine (ICE)-powered and battery electric vehicles due to challenging EPA regulations and the need to reduce battery size. MX150 is a product family constantly evolving to offer various circuit sizes and hybrid connector options. As a result, designers benefit from flexibility and space savings.

High-Quality & Reliability

The MX150 product family is a proven and industry-tested offering with excellent warranty performance. In addition, the products offer highly engineered connector housings, sealing technology and position assurance designs that ensure high-quality connections, making MX150 a go-to solution for designers.

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MARKETS & APPLICATIONS

Automotive

Automotive vehicles

Commercial vehicles

Industrial vehicles and equipment

Recreational vehicles

Commercial Vehicle

ATVs

Marine: under-dash wiring, lighting

Forklifts

Industrial Automation

Robotics

Industrial machines and motors

Automotive Vehicles

Robotics

ATVs

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PRODUCT FEATURES & ADVANTAGES

Connector position assurance (CPA) option available
Helps to eliminate accidental disconnection between connectors

Grommet cap
Protects mat seal and helps ensure proper alignment of the terminals

Mat seal technology for MX150 (1.50mm) terminals
Helps eliminate the need for individual cable seals thereby reducing package size

Preassembled terminal position assurance (TPA) housing
Helps ensures crimped terminal leads are properly locked into connector

Single- and dual-row V0 versions available
Meet stringent safety requirements

One-piece 3.50mm-pitch housing
Offers a compact connector and helps eliminated cost assembly

Panel Mounts
2x3, 2x6 and 2x10 circuit sizes available.

Twist-Head Sealed
Bulk-head connectors
2x6,2x4,2x6,2x8 circuit sizes available

Headers
R/A headers and unshrouded headers available

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PRODUCT AT-A-GLANCE

Sealed Connector System

Circuit Sizes (Single and Double Row)	2, 3, 4, 5, 6, 8k 12, 16, 20
Genders	Male and Female
Polarization Options	Keys: A, B, C, D
Colors	Black, Light Gray, Dark Gray, Stone Gray
Industry Interface	USCAR-2, USCAR-21 and GMW3191
Operating Specifications	Current up to 22A, -40C to150C
Other Features	Optional clip slot (11.00mm), TPA, CPA and Custom Void Patterns

Hybrid Sealed Connector System

Circuit Sizes	8-way, 9-way, 10-way, 12-way, 16-way
Genders	Male and Female
Polarization Options	Keys: A, B, C, D
Colors	Black, Light Gray, Dark Gray, Stone Gray
Industry Interface	USCAR-2, USCAR-21 and GMW3191
Other Features	Optional clip slot (11.00mm), TPA, CPA and Custom Void Patterns

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PRODUCT & APPLICATION MATRIX

Trends	Markets	Transportation Applications
Zonal Architecture	ICE Vehicles	ADAS
Electrification (EV)	Electric Vehicle	Compute clusters
Autonomy	Commercial Vehicles	Zonal modules – I/O aggregators
	Recreational Vehicles	EV charging stations
	Truck and bus	Battery Management Systems
	Agriculture	Safety
	Lawn and garden	Door modules
	Boats	HVAC
		Interior/exterior lighting
		Power seat modules
		Power steering
		Powertrain
		Engine control modules
		Motor/ transmission ECU

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THANK YOU

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