



7.62mm (.300") Pitch MX150L™ Sealed Wire-to-Wire Plugs, Receptacles and Terminals 8, 10, 12 AWG

19433 Plugs
19436 Sealed Panel-Mount Plugs

19432 Receptacles
19431 Male Terminals
19434 Female Terminals



The addition of sealed panel-mount plugs enhances Molex's high-performance MX150L connector system, which is designed for challenging, rugged and harsh applications

The MX150L 8, 10 and 12 AWG products are designed to meet the need for a rugged, environmentally sealed connector system supporting high-power applications and long-voltage runs to eliminate voltage drops. To further expand the MX150L connector system, Molex introduces sealed panel-mount plugs for 8, 10 and 12 AWG applications. This new design provides additional options, allowing customers to design the ideal solution for their end product.

This innovative mat-sealed connector family is based upon a 2.50mm (.098") blade-type terminal system, available in a pre-Tin finish. This design eliminates the need to purchase, handle and crimp individual wire seals, which lowers applied cost. The mat-seal design is a single silicone-based seal with individual

wire openings and a seal cap to protect, securely retain and provide strain relief to the seal. The cost-effective connector design features all-in-one plug and receptacle housings with pre-assembled mat-wire and interfacial connector seals. Integral terminal position assurance (TPA) and connector position assurance (CPA) components eliminate time-consuming and costly assembly operations. Populating the housings consists of crimp-and-poke technology. Simply crimp the appropriate terminal, insert the crimped terminal lead, and seat the TPA to its lock position. No additional components are required.

Tooling solutions include FineAdjust™ crimp press applicators for high-volume production, as well as hand tools for low-volume production and field repairs.

Features and Benefits

- Sealed panel-mount plugs are equipped with blind-hole boss feature to improve the sealing process during assembly by eliminating leak path and reducing extra hardware
- Pre-assembled connector housings and TPA components shipped in one-piece units for applied labor and cost savings
- Simple crimp, poke and plug application eliminates need to crimp individual wire seals
- Integral terminal position assurance (TPA) assures that crimped terminal leads are properly locked into connector (TPA will not seat into final lock position and connector system will not latch if terminal is not locked properly into position)
- Integral, two-way mat seal on the mating connector designed and tested to IEC IP 67 exceeds "waterproof" demands as a true sealed connector system tested under submersed conditions in various fluids
- Two independent terminals (10 to 12 AWG and 8 AWG) allow customers to support 30.0A applications with 10 to 12 AWG terminals and 40.0A applications with 8 AWG terminals
- Audible and tactile feedback clicks on insertion, extraction and mating facilitates reliable mating and terminal loading and removal
- 7.62mm (.300") pitch housing design with 2 styles of terminals for wire styles from 10 to 12 AWG as well as 8 AWG allows flexibility in selecting from a wide range of wire styles and insulation thicknesses, (nominal O.D. ranges .155 to .237") to support numerous applications

SPECIFICATIONS

Reference Information

Packaging:
Housings — Bulk
Terminals — Reel and loose piece
UL File No.: E152602
Designed In: Inches

Electrical

Voltage: 600V
Current: 10 to 12 AWG — 30.0A
8 AWG — 40.0A
Dielectric Withstanding Voltage: 2200V AC min.
Insulation Resistance: 1000 Megohms

Mechanical

Contact Insertion Force: 4.4N (1 lbf) max.
Sealing: IEC 529 — IP67 standard
Durability: 25 cycles

Physical

Housing: Glass-filled PBT, Black
Contact: Copper (Cu) Alloy
Plating: Tin (Sn)
Operating Temperature: -40 to +125°C
Flammability: UL 94V-0

APPLICATIONS



**7.62mm (.300") Pitch
MX150L™ Sealed
Wire-to-Wire Plugs,
Receptacles and Terminals
8, 10, 12 AWG**

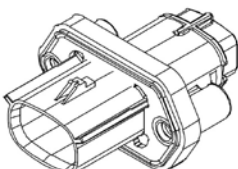
- Agriculture equipment
- Construction equipment
- Recreational vehicles
- Marine equipment



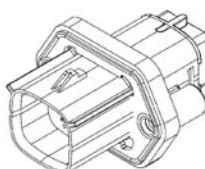
- 19433 Plugs**
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- 19432 Receptacles**
- 19431 Male Terminals**
- 19434 Female Terminals**

ORDERING INFORMATION

Single-Row Sealed Panel-Mount Plug

	Order No.	Circuits	Wire Range (AWG)	Panel Gasket	Mat Seal Color
	19436-0214	2	8	Yes	Red
	19436-0213		10-12	Yes	Yellow
	19436-0212		8	None	Red
	19436-0211		10-12	None	Yellow

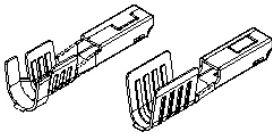
Dual-Row Sealed Panel-Mount Plug

	Order No.	Circuits	Wire Range (AWG)	Panel Gasket	Mat Seal Color
	19436-0412	4	8	Yes	Red
	19436-0411		10-12	Yes	Yellow
	19436-0414		8	None	Red
	19436-0413		10-12	None	Yellow

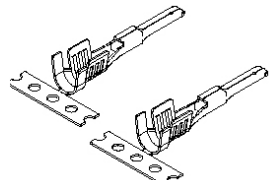


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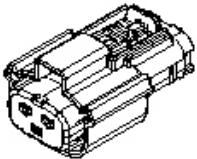
Female Terminals

 10-12 AWG 8 AWG	AWG	Insulation Diameter mm (in)	Order No.		Dimensions mm (in)			
			Loose	Strip	A	B	C	D
	10-12	3.94-4.45 (.155-.175)	19434-0003	19434-0001	6.35 (.250)	6.00 (.236)	5.00 (.197)	5.60 (.220)
	8	6.02 (.237)	19434-0004	19434-0002	N/A	N/A	6.10 (.240)	7.00 (.276)

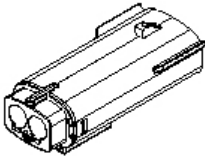
Male Terminals

 10-12 AWG 8 AWG	AWG	Insulation Diameter mm (in)	Order No.		Dimensions mm (in)			
			Loose	Strip	A	B	C	D
	10-12	3.94-4.45 (.155-.175)	19431-0016	19431-0001	6.35 (.250)	6.00 (.236)	5.00 (.197)	5.60 (.220)
	8	6.02 (.237)	19431-0017	19431-0015	N/A	N/A	6.10 (.240)	7.00 (.276)

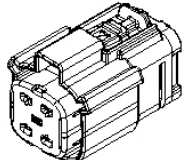
Single-Row Receptacle

	Order No.	Circuits	Wire Range (AWG)	Mat Seal Color
	19432-0013	2	10-12	Yellow
	19432-0014		8	Red

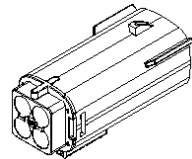
Single-Row Plug

	Order No.	Circuits	Wire Range (AWG)	Mat Seal Color
	19433-0013	2	10-12	Yellow
	19433-0014		8	Red

Dual-Row Receptacle

	Order No.	Circuits	Wire Range (AWG)	Mat Seal Color
	19432-0001	4	10-12	Yellow
	19432-0002		8	Red

Dual-Row Plug

	Order No.	Circuits	Wire Range (AWG)	Mat Seal Color
	19433-0001	4	10-12	Yellow
	19433-0002		8	Red

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