

FEATURES AND SPECIFICATIONS



5.84mm (.230") Pitch MX150L™ Panel Mount Plugs and Terminals

19429

Rear Mount Plugs, Through Hole Flange Plugs

19417

Male Terminals



Pre-assembled panel mount plugs are the latest addition to the high performance MX150L connector system, suitable for applications in the most challenging and harsh environments

The new MX150L Panel Mount Plugs are designed to deliver the same superior electrical and mechanical performance, in the most demanding environments, as the legacy family of sealed connectors. Offering more options for circuit density and mounting styles than the competition, the panel mount plugs provide additional options to the MX150L product line. Similar to the existing MX150L sealed connector system, the panel mount plugs were designed to meet the need for rugged, environmentally sealed connectors, supporting both low-level signal applications as well as power applications up to 18 amperes. They are used in numerous applications, including farm, construction and industrial equipment, recreational-vehicle and marine markets and many others.

The panel mount plugs accommodate 14-to-22 AWG wire in the same housing, minimizing the number of part numbers a customer must order. For the same reason, they are also sold with the panel gasket packaged with the plugs. Two mounting options are

available to provide optimum flexibility: rear mount and through hole mount. The rear mount plug is designed for true IP67 sealing performance between the panel and plug. A blind boss feature in the rear mount version prevents fluid ingress around the mounting hardware and also reduces the amount of hardware required for mounting. The through hole version supports either front or rear mounting of the plug; however, the customer must supply the means to prevent fluid ingress around the hardware. With both versions, the mating interface provides full IP67 sealing capability.

Like the standard plugs and receptacles, the panel mount plugs come pre-assembled, so it's as easy as "crimp, poke and set the terminal position assurance (TPA)" to complete assembly. For crimping the male terminals, tooling solutions include Fine Adjust crimp press applicators for high-volume production, as well as hand tools for low-volume production and field repairs.

Features and Benefits

- Pre-assembled connector housings and TPA components shipped in one-piece for applied labor and cost savings
- Simple crimp, poke and plug application ensures no 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 and SAE USCAR-2, Rev. 4 standards exceeds "waterproof" demands as a true sealed connector system tested under submersed conditions in various fluids
- Easy terminal extraction and insertion allows quick, low-cost field repairs using common screw driver, needle nose pliers and terminal extraction tool
- High connector and terminal retention forces surpass performance of most mature products in the market (more than double). Connector System Retention (main latch) = 255N versus required 110N. Terminal Retention (to connector) = 210N versus required 90N
- Superior electrical and mechanical performance capabilities surpass performance of most mature competitive products in the market
- Audible and tactile clicks on insertion, extraction and mating facilitates reliable mating and terminal loading and removal
- 5.84mm (.230") pitch housing design with 2 styles of terminals for UL wire styles from 22 through 18 AWG as well as 16 through 14 AWG allows flexibility in selecting from a wide range of wire styles and insulation thicknesses, (O.D. ranges 0.093" to 0.139") to support numerous applications
- Supports a 2-circuit, single-row arrangement as well as 4, 6, 8, 10 12 and 16 circuits in a dual-row configuration, providing a wide selection of circuit densities

SPECIFICATIONS

Reference Information

Packaging:

Housings – Bulk

Terminals – Reel and loose piece

UL File No.: E152602

CSA File No.: Pending

Designed In: Inches

Electrical

Voltage: 600V

Current: 18.0A

Contact Resistance: ≤ 20 milliohms

Dielectric Withstanding Voltage: 1500V AC min.

Insulation Resistance: 1000 Megohms

Mechanical

Contact Insertion Force: 4.4N (1.0 lb) max.

Contact Retention to Housing: 178N (40 lb) avg.

Mating Force: 67N (15 lb) max.

Unmating Force: 67N (15 lb) max.

Sealing: IEC 529 – IP67 standard

Durability:

Tin Plating – 25 cycles

Gold Plating – 100 cycles

Physical

Housing: Glass-filled PBT, black, UL 94V-0

Contact: C19025 Copper Alloy

Plating:

Contact Area – Tin or Gold (optional)

Underplating – Nickel

Operating Temperature: -40 to +125°C

APPLICATIONS



5.84mm (.230") Pitch MX150L™ Panel Mount Plugs and Terminals

- Agriculture Equipment
- Construction Equipment
- Recreational Vehicles
- Marine Equipment



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ORDERING INFORMATION

Panel Mount Plugs

Circuit Size	Wire Range (AWG)	Rear Mount Order Number			Through Hole Flange Order Number		
		With Gasket	Without Gasket	Gasket	With Gasket	Without Gasket	Gasket
2	14 - 22	19429-0033	19429-0005	19427-0025	19429-0041	19429-0026	19427-0025
4		19429-0035	19429-0009	19427-0024	19429-0043	19429-0025	19427-0024
6		19429-0036	19429-0010	19427-0021	19429-0044	19429-0028	19427-0021
8		19429-0037	19429-0011	19427-0022	19429-0045	19429-0029	19427-0022
10		19429-0038	19429-0014	19427-0029	19429-0046	19429-0030	19427-0029
12		19429-0039	19429-0015	19427-0030	19429-0047	19429-0031	19427-0030
16		19429-0040	19429-0016	19427-0023	19429-0048	19429-0032	19427-0023

Male Terminals

AWG (mm ²)	Insulation Diameter mm (in)	Pre-Plated Tin		Select Gold		Mating Length
		Strip	Loose	Strip	Loose	
18-22 (0.36 - 0.83)	2.36 - 2.74 (.093 - .108)	19417-0024	19417-0048	19417-0026	19417-0050	Standard
14-16 (1.27 - 2.00)	2.87 - 3.53 (.113 - .139)	19417-0011	19417-0047	19417-0025	19417-0049	Standard
18-22 (0.36 - 0.83)	2.36 - 2.74 (.093 - .108)	19417-0028	19417-0052	19417-0030	19417-0054	Long
14-16 (1.27 - 2.00)	2.87 - 3.53 (.113 - .139)	19417-0027	19417-0051	19417-0029	19417-0053	Long

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