The pre-assembled, submersible MX150L is a high performance connector system suitable for challenging, rugged and harsh applications.

The MX150L sealed connector system is designed to meet the need for a rugged, environmentally sealed connector system supporting both low-level signal applications as well as power applications up to 40.0A, from marine applications to off-road construction equipment applications. The system is comprised of wire-to-wire, wire-to-panel and wire-to-board configurations.

These innovative mat-sealed connectors are based upon the 1.50 and 2.50mm (.059 and .098”) blade-type terminals. This design eliminates the need to purchase, handle and crimp individual wire seals to lower 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 optional Connector Position Assurance (CPA) components eliminate time-consuming and costly assembly operations. Completing the application is as simple as crimping the appropriate terminal, inserting the crimped terminal lead and seating the TPA to its final locked 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**

- Pre-assembled connector housings, seals, TPA components and mat-seal cap shipped in one piece to provide applied labor and cost savings
- Integral TPA assures that cramped 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)
- Conforms to UL 1977, which allows for a UL recognized sealed connector system for use in data, signal, control and power applications
- Superior electrical and mechanical performance capabilities surpass performance of most mature competitive products in market
- Audible and tactile clicks on insertion, extraction and mating feedback facilitates reliable mating and terminal loading and removal
- Unused circuits can be blocked using plastic seal plugs, which facilitates flexibility of sealing unused circuits without adding complexity to part numbers and customer inventory
- Integral locking latch with secondary, pre-loaded CPA option assures that connector system is properly latched. CPA will not move to final locked position if connector is not latched. Confirms positive mating of connector
- Sealed panel mount plugs are equipped with a blind hole boss feature which reduces extra hardware while improving the sealing process during assembly by eliminating a leak path
- Integral, 2-way mat and interface seals designed and tested to IEC IP 67 standards exceeds “waterproof” demands as a true sealed connector system tested under submersed conditions in various fluids
- Easy terminal insertion and extraction provides quick, low-cost field repairs using common screw driver, needle nose pliers and terminal extraction tool
- Protective mat-seal cap protects, securely retains, and provides strain relief to wire seal interface
- Simple crimp, poke and plug application eliminates need to crimp individual wire seals

**MX150L SEALED CONNECTOR SYSTEMS - EXPLODED VIEW**

**NOTE:** All discrete components shown above for both the receptacle and plug housings are pre-assembled. Terminals are simply crimped and poked into the housings. No additional wire seals, wedge locks or CPA locks are required.
14 TO 22 AWG WIRE-TO-WIRE, PANEL MOUNT AND PCB

19417 Male Terminal 14-22 AWG page 4

19419 Plug pages 6, 8

19429 Panel Mount Plug Through Hole Flange pages 11, 12

19429 Panel Mount Plug Rear Mount Flange pages 9, 10

19435 Sealed Panel Mount Plug page 13

19420 Female Terminal 14-22 AWG page 3

19418 Receptacle pages 5, 7

19427 PCB Header Right Angle without Flange pages 14, 15

19428 PCB Header Vertical Low Profile pages 14, 17

19428 PCB Header Vertical Standard Profile pages 18, 19

8, 10 AND 12 AWG WIRE-TO-WIRE

19431 8, 10, 12 AWG Male Terminal page 22

19433 Plug pages 24, 26

19436 Sealed Mount Panel Plug pages 27, 28

19434 8, 10, 12 AWG Female Terminal page 21

19432 Receptacle pages 23, 25

8, 10, 12 AWG Male Terminal page 22

8, 10, 12 AWG Female Terminal page 21
FEATURES AND SPECIFICATIONS

Features and Benefits
- Mat seal friendly design features center seam and coined edges
- Anti-over stress beam geometry feature
- Low insertion force

Reference Information
UL File No.: E152602
Designed In: Inches
Used With: 19418

5.84mm (.230”) Pitch
MX150L™
Terminal
19420
Female

Electrical
Current: 18.0A

Physical
Contact: Copper Alloy
Plating: Tin or Gold

Mechanical
Contact Insertion Force: 1.0 lb. max.
Durability: Tin Plating—25 cycles
Gold Plating—100 cycles

CATALOG DRAWING (FOR REFERENCE ONLY)

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Wire Range (AWG)</th>
<th>Insulation Diameter mm (In)</th>
<th>Pre-Tin Strip</th>
<th>Pre-Tin Loose</th>
<th>Gold Strip</th>
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<th>A</th>
<th>B</th>
<th>C</th>
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<tr>
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<td>19420-0002</td>
<td>19420-0010</td>
<td>19420-0004</td>
<td>19420-0012</td>
<td>4.60 (.181)</td>
<td>3.63 (.143)</td>
<td>2.50 (.098)</td>
<td>2.70 (.106)</td>
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<td>14-16</td>
<td>2.87-3.53 (.113-.139)</td>
<td>19420-0001</td>
<td>19420-0009</td>
<td>19420-0003</td>
<td>19420-0011</td>
<td>5.66 (.223)</td>
<td>4.62 (.182)</td>
<td>3.58 (.141)</td>
<td>3.94 (.155)</td>
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</table>
FEATURES AND SPECIFICATIONS

**Features and Benefits**
- Mat seal friendly design features center seam and coined electrical
- Low insertion force

**Reference Information**
UL File No.: E152602  
Designed in: Inches  
Used With: 19419, 19429 and 19435

**Electrical**
Current: 18.0A

**Physical**
Contact: Copper Alloy  
Plating: Tin or Gold

**Mechanical**
Contact Insertion Force: 1.0 lb. max.  
Durability: Tin Plating—25 cycles  
Gold Plating—100 cycles

**Ordering Information**

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<th>Wire Range (AWG)</th>
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<th>Pre-Tin Order No.</th>
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</table>
FEATURES AND SPECIFICATIONS

Features and Benefits
- Environmentally sealed to IP67
- Integrated mat wire seal
- Integrated interface seal and terminal position assurance (TPA)
- Optional connector position assurance (CPA)
- Simple crimp-and-poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback

Reference Information
UL File No.: E152602
Designed In: Inches
Mates With: 19419, 19429

Electrical
- Dielectric Withstanding Voltage: 2200V AC min.
- Insulation Resistance: 1000 Megohms
- Voltage: 600V

Mechanical
- Mating force: 75N max.
- Unmating force: 75N max.

Physical
- Housing: SPS Glass-Filled Crystalline Polymer
- Operating Temperature: -40 to +125°C

5.84mm (.230”) Pitch
MX150L™
Receptacle
19418
Single Row

CATALOG DRAWING (FOR REFERENCE ONLY)

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Wire Range (AWG)</th>
<th>Mat Seal Color</th>
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FEATURES AND SPECIFICATIONS

Features and Benefits
- Environmentally sealed to IP67
- Integrated mat wire seal and terminal position assurance (TPA)
- Simple crimp-and-poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback

Reference Information
UL File No.: E152602
Designed In: Inches
Mates With: 19418

Electrical
Dielectric Withstanding Voltage: 2200V AC min.
Insulation Resistance: 1000 Megohms
Voltage: 600V

Mechanical
Mating force: 75N max.
Unmating force: 75N max.

Physical:
Housing: SPS Glass-Filled Crystalline Polymer
Operating Temperature: -40 to +125°C

CATALOG DRAWING (FOR REFERENCE ONLY)

ORDERING INFORMATION

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<th>Circuits</th>
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</table>
### Features and Benefits
- Environmentally sealed to IP67
- Integrated mat wire seal and terminal position assurance (TPA)
- Optional connector position assurance (CPA)
- Simple crimp-and-poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback

### Reference Information
UL File No.: E152602
Designed In: Inches
Mates With: 19419, 19429 and 19435

### Electrical
- Dielectric Withstanding Voltage: 2200V AC min.
- Insulation Resistance: 1000 Megohms
- Voltage: 600V

### Mechanical
- Mating force: 75N max.
- Unmating force: 75N max.

### Physical
- Housing: SPS Glass-Filled Crystalline Polymer
- Operating Temperature: -40 to +125°C

### Ordering Information

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FEATURES AND SPECIFICATIONS

Features and Benefits
- Environmentally sealed to IP67
- Integrated mat wire seal and terminal position assurance (TPA)
- Simple crimp-and-poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback

Reference Information
UL File No.: E152602
Designed In: Inches
Mates With: 19418

Electrical
Dielectric Withstanding Voltage: 2200V AC min.
Insulation Resistance: 1000 Megohms
Voltage: 600V

Mechanical
Mating force: 75N max.
Unmating force: 75N max.

Physical:
Housing: SPS Glass-Filled Crystalline Polymer
Operating Temperature: -40 to +125°C

5.84mm (.230”) Pitch
MX150L™
Plug
19419
Dual Row

CIRCUITS

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<th>Circuits</th>
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CATALOG DRAWING (FOR REFERENCE ONLY)

ORDERING INFORMATION
**Features and Benefits**
- Environmentally sealed to IP67 when mated
- Integrated terminal position assurance (TPA)
- Simple crimp-and-poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback
- For outside or inside panel mount applications with sufficient sealing area
- Use with molded silicon panel gasket
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

**Reference Information**
- UL File No.: E152602
- Designed In: Inches
- Mates With: 19418

**Electrical**
- Dielectric Withstanding Voltage: 2200V AC min.
- Insulation Resistance: 1000 Megohms
- Voltage: 600V

**Mechanical**
- Mating force: 75N max.
- Unmating force: 75N max.

**Physical**
- Housing: SPS Glass-Filled Crystalline Polymer
- Operating Temperature: -40 to +125°C

**Catalog Drawing (For Reference Only)**

**Ordering Information**

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Wire Range (AWG)</th>
<th>Order No. With Gasket</th>
<th>Order No. Without Gasket</th>
<th>Order No. Gasket</th>
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<td>19429-0033</td>
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**Note:** Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent
## FEATURES AND SPECIFICATIONS

### Features and Benefits
- Environmentally sealed to IP67
- Integrated terminal position assurance (TPA)
- Simple crimp-and-poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback
- For outside or inside panel mount applications with sufficient sealing area
- Use with molded silicon panel gasket
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### Reference Information
UL File No.: E152602
Designed In: Inches
Mates With: 19418

### Electrical
- Dielectric Withstanding Voltage: 2200V AC min.
- Insulation Resistance: 1000 Megohms
- Voltage: 600V

### Mechanical
- Mating force: 75N max.
- Unmating force: 75N max.

### Physical
- Housing: SPS Glass-Filled Crystalline Polymer
- Operating Temperature: -40 to +125°C

## CATALOG DRAWING (FOR REFERENCE ONLY)

### ORDERING INFORMATION

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<td>57.20 (2.255)</td>
<td>73.67 (2.900)</td>
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**Note:** Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent
FEATURES AND SPECIFICATIONS

Features and Benefits
- Environmentally sealed to IP67 when mated
- Integrated terminal position assurance (TPA)
- Simple crimp-and-poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback
- For outside or inside panel mount applications with sufficient sealing area
- Use with molded silicon panel gasket

Reference Information
UL File No.: E152602
Designed In: Inches
Mates With: 19418

Electrical
- Dielectric Withstanding Voltage: 2200V AC min.
- Insulation Resistance: 1000 Megohms
- Voltage: 600V

Mechanical
- Mating force: 75N max.
- Unmating force: 75N max.

Physical:
- Housing: SPS Glass-Filled Crystalline Polymer
- Operating Temperature: -40 to +125°C

Through Hole Flange
Single Row

CATALOG DRAWING (FOR REFERENCE ONLY)

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Wire Range (AWG)</th>
<th>With Gasket</th>
<th>Without Gasket</th>
<th>Gasket</th>
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5.84mm (.230”) Pitch  
MX150L™  
Panel Mount Plug  
19429  
Through Hole Flange  
Dual Row

**Features and Benefits**
- Environmentally sealed to IP67
- Integrated terminal position assurance (TPA)
- Simple crimp-and-poke application
- Field serviceable contact removal system
- Tactile and audible mating feedback
- For outside or inside panel mount applications with sufficient sealing area
- Use with molded silicon panel gasket

**Reference Information**
- UL File No.: E152602
- Designed In: Inches
- Mates With: 19418

**Electrical**
- Dielectric Withstanding Voltage: 2200V AC min.
- Insulation Resistance: 1000 Megohms
- Voltage: 600V

**Mechanical**
- Mating force: 75N max.
- Unmating force: 75N max.

**Physical**
- Housing: SPS Glass-Filled Crystalline Polymer
- Operating Temperature: -40 to +125°C

**Catalog Drawing (For Reference Only)**

**Ordering Information**

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<th>Circuits</th>
<th>Wire Range (AWG)</th>
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<td>73.67 (2.900)</td>
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</table>
**FEATURES AND SPECIFICATIONS**

### Features and Benefits
- Environmentally sealed to IP67
- Mates with existing MX150L receptacles
- Supports non-closed in panels
- Field serviceable contact removal system
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

### Reference Information
- UL File No.: E152602
- Designed in: Inches
- Mates with: 19418

### Electrical
- **Dielectric Withstanding Voltage:** 2200V AC min
- **Insulation Resistance:** 1000 Megohms min.
- **Voltage:** 600V

### Mechanical
- **Mating Force:** 75N max
- **Unmating Force:** 75N max

### Physical
- **Housing:** Glass-Filled PBT
- **Operating Temperature:** -40 to +125°C

### Catalog Drawing (For Reference Only)

### Ordering Information

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Wire Range (AWG)</th>
<th>Mat Seal Color</th>
<th>Order No.</th>
<th>Dimension</th>
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**Notes:** Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent
FEATURES AND SPECIFICATIONS

Features and Benefits
- Environmentally sealed to IP67
- Mates with existing MX150L receptacles
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14-22 AWG receptacle
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

Reference Information
Packaging: Tray
UL File No.: E152602
Designed in: Inches
Mates with: 19418

5.84mm (.230”) Pitch
MX150L™
PCB Header
19427
Right Angle
Without PCB Flange
Single Row

Electrical
Dielectric Withstanding Voltage:
2200V AC min
Insulation Resistance: 1000 Megohms min.
Voltage: 600V

Mechanical:
Durability: Tin Plating—25 cycles
Gold Plating—100 cycles

Physical
Housing: Glass-Filled PBT
Contact: Copper Alloy
Plating: Contact Area — Tin or Gold
Solder Tail Area — Tin
PCB Thickness: 1.60mm (.062”) max.
Operating Temperature: -40 to +125°C

ORDERING INFORMATION

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<th>Circuits</th>
<th>Order No.</th>
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<th>B</th>
<th>C</th>
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Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws
Suggested Source: ITW Shake Proof Industrial Basscrew or equivalent
FEATURES AND SPECIFICATIONS

- Environmentally sealed to IP67
- Mates with existing MX150L receptacles
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14-22 AWG
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

Features and Benefits

- Environmentally sealed to IP67
- Mates with existing MX150L receptacles
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14-22 AWG
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

Reference Information

Packaging: Tray
UL File No.: E152602
Designed in: Inches
Mates with: 19418

Electrical

- Dielectric Withstanding Voltage: 2200V AC min
- Insulation Resistance: 1000 Megohms min.
- Voltage: 600V

Mechanical:

- Durability: Tin Plating—25 cycles
- Gold Plating—100 cycles

Physical

- Housing: Glass-Filled PBT
- Contact: Copper Alloy
- Plating: Contact Area — Tin or Gold
- Solder Tail Area — Tin
- PCB Thickness: 1.60mm (.062") max.
- Operating Temperature: -40 to +125°C

CABINET DRAWING (FOR REFERENCE ONLY)

ORDERING INFORMATION

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Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent

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**FEATURES AND SPECIFICATIONS**

**Features and Benefits**
- Environmentally sealed to IP67
- Mates with existing MX150L receptacles
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14-22 AWG
- Tactile and audible mating feedback

**Reference Information**
- Packaging: Tray
- UL File No.: E152602
- Designed in: Inches
- Mates with: 19418

**Electrically**
- Dielectric Withstanding Voltage: 2200V AC min
- Insulation Resistance: 1000 Megohms min.
- Voltage: 600V

**Mechanically**
- Durability: Tin Plating—25 cycles
  Gold Plating—100 cycles

**Physically**
- Housing: Glass-Filled PBT
- Contact: Copper Alloy
- Plating: Contact Area — Tin or Gold
  Solder Tail Area — Tin
- PCB Thickness: 1.60mm (.062") max.
- Operating Temperature: -40 to +125°C

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**CATALOG DRAWING (FOR REFERENCE ONLY)**

**ORDERING INFORMATION**

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FEATURES AND SPECIFICATIONS

Features and Benefits
- Environmentally sealed to IP67
- Mates with existing MX150L receptacles
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14-22 AWG receptacle
- Tactile and audible mating feedback

Reference Information
Packaging: Tray
UL File No.: E152602
Designed in: Inches
Mates with: 19418

Electrical
Dielectric Withstanding Voltage:
2200V AC min
Insulation Resistance: 1000 Megohms min.
Voltage: 600V

Mechanical:
Durability: Tin Plating—25 cycles
Gold Plating—100 cycles

Physical
Housing: Glass-Filled PBT
Contact: Copper Alloy
Plating: Contact Area — Tin or Gold
Solder Tail Area — Tin
PCB Thickness: 1.60mm (.062") max.
Operating Temperature: -40 to +125°C

ORDERING INFORMATION

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**FEATURES AND SPECIFICATIONS**

**Features and Benefits**
- Environmentally sealed to IP67
- Mates with existing MX150L receptacles
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14-22 AWG receptacle
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

**Reference Information**
- Packaging: Tray
- UL File No.: E152602
- Designed in: Inches
- Mates with: 19418

**Electrical**
- Dielectric Withstanding Voltage: 2200V AC min
- Insulation Resistance: 1000 Megohms min.
- Voltage: 600V

**Mechanical**
- Durability: Tin Plating—25 cycles
  Gold Plating—100 cycles

**Physical**
- Housing: Glass-Filled PBT
- Contact: Copper Alloy
- Plating: Contact Area — Tin or Gold
  Solder Tail Area — Tin
- PCB Thickness: 1.60mm (.062") max.
- Operating Temperature: -40 to +125°C

**ORDERING INFORMATION**

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<td>43.18 (1.70)</td>
<td>22.23 (.875)</td>
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Note: Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent
**FEATURES AND SPECIFICATIONS**

**Features and Benefits**
- Environmentally sealed to IP67
- Mates with existing MX150L receptacles
- Molded silicon panel gasket included
- Available in tin or gold plating
- Supports 14-22 AWG receptacle
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

**Reference Information**
- Packaging: Tray
- UL File No.: E152602
- Designed in: Inches
- Mates with: 19418

**Electrical**
- Contact Resistance: milliohms max.
- Dielectric Withstanding Voltage: 2200V AC min
- Insulation Resistance: 1000 Megohms min.
- Voltage: 600V

**Mechanical**
- Durability: Tin Plating—25 cycles
  Gold Plating—100 cycles

**Physical**
- Housing: Glass-Filled PBT
- Contact: Copper Alloy
- Plating: Contact Area — Tin or Gold
  Solder Tail Area — Tin
- PCB Thickness: 1.60mm (.062”) max.
- Operating Temperature: -40 to +125°C

**CATALOG DRAWING (FOR REFERENCE ONLY)**

**ORDERING INFORMATION**

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**Notes:**
- Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws
- Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent
FEATURES AND SPECIFICATIONS

With the application of optional circuit plugs, the MX150L system supports the ability to implement sealed blank cavities in both plug and receptacle housings. The circuit plugs occupy and fully seal the unused cavity and can be extracted and replaced with a standard male blade or female receptacle terminal. This feature provides the ability to plan for possible future circuit additions while maintaining the sealing integrity of the mated pair.

Reference Information
Use With: 19418, 19419 and 19435

Physical
Material: SPS Glass-Filled Crystalline Polymer
Operating Temperature: -40 to +125°C

5.84mm (.230”) Pitch
MX150L™
Unused Cavity Circuit Plugs

19417
14 to 22 AWG

CATALOG DRAWING (FOR REFERENCE ONLY)

ORDERING INFORMATION

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<td>19417-0119</td>
<td>34.3 (1.35)</td>
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* For use with 19418 receptacles when mating to PCB headers.
FEATURES AND SPECIFICATIONS

Features and Benefits
- Mat seal friendly design features center seam and coined edges
- High current
- Low insertion force

Reference Information
UL File No.: E152602
Designed in: Inches
Use with: 19432

Electrical
Current: 10-12 AWG—30.0A
8 AWG—40.0A

Physical
Contact: Copper Alloy
Plating: Tin

Mechanical
Contact Insertion Force: 1lb
Durability: 25 cycles

ORDERING INFORMATION

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<th>Wire Range (AWG)</th>
<th>Insulation Diameter mm (In)</th>
<th>Order No. Loose</th>
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7.62mm (.300”) Pitch MX150L™ Terminal
19434
8, 10, 12 AWG Female

10–12 AWG 8 AWG
FEATURES AND SPECIFICATIONS

Features and Benefits
- Mat seal friendly design features center seam and coined edges
- High current
- Low insertion force
- Mates With: 19433 and 19436

Reference Information
UL File No.: E152602
Designed in: Inches
Use with: 19433 and 19436

Electrical
Current: 10-12 AWG — 30.0A
8 AWG — 40.0A

Physical
Contact: Copper Alloy
Plating: Tin

Mechanical
Contact Insertion Force: 1lb
Durability: 25 cycles

Catalog Drawing (For Reference Only)

Ordering Information

<table>
<thead>
<tr>
<th>Wire Range (AWG)</th>
<th>Insulation Diameter mm (In)</th>
<th>Order No.</th>
<th>Dimension</th>
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<td>6.10 (.240)</td>
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CATALOG DRAWING (FOR REFERENCE ONLY)
### FEATURES AND SPECIFICATIONS

**Features and Benefits**
- Environmentally sealed to IP67
- Integrated mat wire seal and terminal position assurance
- High current
- Field serviceable contact removal system
- Simple crimp-and-poke application
- Tactile and audible mating feedback
- CPA connector position assurance included

**Reference Information**
- UL File No.: E152602
- Designed in: Inches
- Mates with: 19433 and 19436
- Use with: 19434

### Electrical
- Dielectric Withstanding Voltage: 2200V AC min
- Insulation Resistance: 1000 Megohms min.
- Voltage: 600V

### Mechanical:
- Mating Force: 75N max
- Unmating Force: 75N max

### Physical
- Housing: Glass-Filled PBT
- Operating Temperature: -40 to +125°C

---

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Wire Range (AWG)</th>
<th>Mat Seal Color</th>
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FEATURES AND SPECIFICATIONS

Features and Benefits
- Environmentally sealed to IP67
- Integrated mat wire seal and terminal position assurance
- High current
- Field serviceable contact removal system
- Simple crimp-and-poke application
- Tactile and audible mating feedback
- Mates With: 19433 and 19436

Reference Information
UL File No.: E152602
Designed in: Inches
Mates with: 19432
Use with: 19431

Electrical
Dielectric Withstanding Voltage: 2200V AC min
Insulation Resistance: 1000 Megohms min.
Voltage: 600V

Mechanical:
Mating Force: 75N max
Unmating Force: 75N max

Physical
Housing: Glass-Filled PBT
Operating Temperature: -40 to +125°C

7.62mm (.300””) Pitch
MX150L™ Plug
19433
8,10,12 AWG
Single Row

CATALOG DRAWING (FOR REFERENCE ONLY)

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Circuits</th>
<th>Wire Range (AWG)</th>
<th>Mat Seal Color</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>10-12</td>
<td>Yellow</td>
<td>19433-0013</td>
</tr>
<tr>
<td>8</td>
<td>10-12</td>
<td>Red</td>
<td>19433-0014</td>
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</tbody>
</table>
FEATURES AND SPECIFICATIONS

Features and Benefits
- Environmentally sealed to IP67
- Integrated mat wire seal and terminal position assurance
- High current
- Field serviceable contact removal system
- Simple crimp-and-poke application
- Tactile and audible mating feedback

Reference Information
UL File No.: E152602
Designed in: Inches
Mates with: 19433 and 19436
Use with: 19434

Electrical
- Dielectric Withstanding Voltage: 2200V AC min
- Insulation Resistance: 1000 Megohms min.
- Voltage: 600V

Mechanical:
- Mating Force: 75N max
- Unmating Force: 75N max

Physical
- Housing: Glass-Filled PBT
- Operating Temperature: -40 to +125°C

8,10,12 AWG
Dual Row

CATALOG DRAWING (FOR REFERENCE ONLY)

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<td>19432-0001</td>
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<tr>
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<td>Red</td>
<td>19432-0002</td>
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</table>
FEATURES AND SPECIFICATIONS

Features and Benefits
- Environmentally sealed to IP67
- Integrated mat wire seal and terminal position assurance
- High current
- Field serviceable contact removal system
- Simple crimp-and-poke application
- Tactile and audible mating feedback
- Mates With: 19432

Reference Information
UL File No.: E152602
Designed in: Inches
Mates with: 19432
Use with: 19431

Electrical
- Dielectric Withstanding Voltage: 2200V AC min
- Insulation Resistance: 1000 Megohms min.
- Voltage: 600V

Mechanical:
- Mating Force: 75N max
- Unmating Force: 75N max

Physical
- Housing: Glass-Filled PBT
- Operating Temperature: -40 to +125°C

7.62mm (.300”) Pitch MX150L™ Plug
19433
8,10,12 AWG Dual Row

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<td>Red</td>
<td>19433-0002</td>
</tr>
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</table>

CATALOG DRAWING (FOR REFERENCE ONLY)
**FEATURES AND SPECIFICATIONS**

**Features and Benefits**
- Environmentally sealed to IP67
- Mates with existing MX150L receptacles
- Supports non-closed in panels
- Field serviceable contact removal system
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly
- Mates With: 19432

**Reference Information**
UL File No.: E152602
Designed in: Inches
Mates with: 19432
Use with: 19431

**Electrical**
- Dielectric Withstanding Voltage: 2200V AC min
- Insulation Resistance: 1000 Megohms min.
- Voltage: 600V

**Mechanical:**
- Mating Force: 75N max
- Unmating Force: 75N max

**Physical**
- Housing: Glass-Filled PBT
- Operating Temperature: -40 to +125°C

---

**CATALOG DRAWING (FOR REFERENCE ONLY)**

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<tr>
<td></td>
<td>With Gasket</td>
<td>19436-0213</td>
</tr>
<tr>
<td></td>
<td>Without Gasket</td>
<td>19436-0211</td>
</tr>
<tr>
<td></td>
<td>Gasket</td>
<td>19436-0001</td>
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</tbody>
</table>

**Notes:**
Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws
Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent
**FEATURES AND SPECIFICATIONS**

*Features and Benefits*
- Environmentally sealed to IP67
- Mates with existing MX150L receptacles
- Supports non-closed in panels
- Field serviceable contact removal system
- Tactile and audible mating feedback
- Blind hole boss feature eliminates leak path and reduces extra sealing process during assembly

*Reference Information*
- UL File No.: E152602
- Designed in: Inches
- Mates with: 19432
- Use with: 19431

**Electrical**
- Dielectric Withstanding Voltage: 2200V AC min
- Insulation Resistance: 1000 Megohms min.
- Voltage: 600V

**Mechanical:**
- Mating Force: 75N max
- Unmating Force: 75N max

**Physical**
- Housing: Glass-Filled PBT
- Operating Temperature: -40 to +125°C

**CIRCUITS**

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<th>Circuits</th>
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<th>Order No. Without Gasket</th>
<th>Order No. With Gasket</th>
<th>Order No. Gasket</th>
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<td>19436-0413</td>
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</tbody>
</table>

**Note:**
- Recommended Mounting Hardware: (2) #10 x .62/18.9 long, plastic thread cutting screws
- Suggested Source: ITW Shake Proof Industrial Bosscrew or equivalent
FEATURES AND SPECIFICATIONS

With the application of optional circuit plugs, the MX150L system supports the ability to implement sealed blank cavities in both plug and receptacle housings. The circuit plugs occupy and fully seal the unused cavity and can be extracted and replaced with a standard male blade or female receptacle terminal. This feature provides the ability to plan for possible future circuit additions while maintaining the sealing integrity of the mated pair.

Physical
Material: Glass-Filled PBT
Operating Temperature: -40 to +125°C

Reference Information
Use With: 19433 and 19432

CATALOG DRAWING (FOR REFERENCE ONLY)

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Housing Series</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>19431</td>
<td>19431-0013</td>
</tr>
<tr>
<td>19432</td>
<td>19431-0013</td>
</tr>
</tbody>
</table>
Features and Benefits
- FineAdjust allows users to achieve target with little effort by adjusting on increments of 0.15mm (.0006") for conductor crimp height and .063mm (.0025") for insulation height
- Independent adjustment rings allow users to quickly adjust the conductor or insulation crimp height without affecting each other
- Quick tooling removal with the push of a button for fast and easy tooling change
- Track adjustment for bellmouth and cut-off tab is adjusted while the applicator is in the press for fast and easy setup
- Compatible with the Molex TM-2000™ Universal Press and most industry standard presses, however, it does not fit into Molex TM-40™/TM-42™ press
- Directly adapts to most automatic wire processing machines
- Quick set-up time; plus the crimp height, track and feed adjustments can be preset in applicator
- Applicator designed to industry standard mounting and shut height 135.80mm (5.346")
- FineAdjust available for most Molex brand terminals

FEATUURES AND SPECIFICATIONS

Features and Benefits
- Ergonomically designed soft handles
- Precisely designed crimping profiles with simple contact positioning
- Easy handling due to outstanding force ratio
- This tool type reduces work related injuries

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Terminal Series No.</th>
<th>Terminal Type</th>
<th>Tool Type</th>
<th>Order No.</th>
<th>Wire Gauge AWG (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>19417/19420</td>
<td>MX150L Male and Female</td>
<td>FineAdjust Applicator</td>
<td>63865-6000</td>
<td>14-16 (2.00-1.30)</td>
</tr>
<tr>
<td>19417/19420</td>
<td>MX150L Male and Female</td>
<td>Perishable Tool Kit</td>
<td>63865-6070</td>
<td>14-16 (2.00-1.30)</td>
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<tr>
<td>19417/19420</td>
<td>MX150L Male and Female</td>
<td>T2 Terminator Die</td>
<td>63865-6000</td>
<td>14-16 (2.00-1.30)</td>
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<tr>
<td>19417</td>
<td>MX150L Male</td>
<td>FineAdjust Applicator</td>
<td>63865-6100</td>
<td>18-22 (0.80-0.35)</td>
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<tr>
<td>19417</td>
<td>MX150L Male</td>
<td>Perishable Tool Kit</td>
<td>63865-6170</td>
<td>18-22 (0.80-0.35)</td>
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<tr>
<td>19420</td>
<td>MX150L Female</td>
<td>FineAdjust Applicator</td>
<td>63865-6200</td>
<td>18-22 (0.80-0.35)</td>
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<tr>
<td>19420</td>
<td>MX150L Female</td>
<td>Perishable Tool Kit</td>
<td>63865-6270</td>
<td>18-22 (0.80-0.35)</td>
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<tr>
<td>19420</td>
<td>MX150L Female</td>
<td>T2 Terminator Die</td>
<td>63865-6300</td>
<td>18-22 (0.80-0.35)</td>
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<tr>
<td>19417/19420</td>
<td>MX150L Male and Female</td>
<td>OEM PremiumGrade™ Hand Tool</td>
<td>63811-4400</td>
<td>14-22 (2.37-0.35)</td>
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<tr>
<td>19417/19420</td>
<td>MX150L Male and Female</td>
<td>ServiceGrade™ Hand Tool</td>
<td>64016-0035</td>
<td>14-22 (2.37-0.35)</td>
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<tr>
<td>19434/19417/19420/19431</td>
<td>MX150L Male and Female</td>
<td>Terminal Extraction Tool</td>
<td>63813-1500</td>
<td>8-22 (2.37-0.35)</td>
</tr>
<tr>
<td>19431/19434</td>
<td>MX150L Male and Female</td>
<td>FineAdjust Applicator</td>
<td>63832-5000</td>
<td>10-12 (3.94-4.45)</td>
</tr>
<tr>
<td>19431/19434</td>
<td>MX150L Male and Female</td>
<td>Perishable Tool Kit</td>
<td>63832-5070</td>
<td>10-12 (3.94-4.45)</td>
</tr>
<tr>
<td>19431/19434</td>
<td>MX150L Male and Female</td>
<td>OEM PremiumGrade Hand Tool</td>
<td>63832-5300</td>
<td>10-12 (3.94-4.45)</td>
</tr>
<tr>
<td>19431/19434</td>
<td>MX150L Male and Female</td>
<td>FineAdjust Applicator</td>
<td>63832-5100</td>
<td>8 (.237)</td>
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<tr>
<td>19431/19434</td>
<td>MX150L Male and Female</td>
<td>Perishable Tool Kit</td>
<td>63832-5170</td>
<td>8 (.237)</td>
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<td>MX150L Male and Female</td>
<td>OEM PremiumGrade Hand Tool</td>
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<td>8 (.237)</td>
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<tr>
<td>19431/19434</td>
<td>MX150L Male and Female</td>
<td>ServiceGrade Hand Tool</td>
<td>64016-0079</td>
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<tr>
<td>19431/19434</td>
<td>MX150L Male and Female</td>
<td>ServiceGrade Hand Tool</td>
<td>64016-0089</td>
<td>8 (.237)</td>
</tr>
</tbody>
</table>
1) Return TPA to pre-lock position
   - Carefully insert a standard screwdriver into slot on top of TPA.
   - Carefully pry TPA forward and listen for audible click.
   - TPA is now in pre-lock position.

2) Release terminal from connector assembly
   - Insert and drive forward extractor tool to release terminal.
   - Pull terminal from rear of connector.

---

**SEALED RECEPTACLE ASSEMBLY - SERVICEABILITY**

1) Return TPA to pre-lock position
   - Use standard needle nose pliers to return TPA to pre-lock position.
   - Insert needle nose pliers into service hole and carefully pull TPA.
   - Listen for loud audible click.
   - TPA is now in pre-lock position.

2) Release terminal from connector assembly
   - Insert and drive forward extractor tool to release terminal.
   - Pull terminal from rear of connector.

---

**SEALED BLADE ASSEMBLY - SERVICEABILITY**

1) Return TPA to pre-lock position
   - Carefully insert a standard screwdriver into slot on top of TPA.
   - Carefully pry TPA forward and listen for audible click.
   - TPA is now in pre-lock position.

2) Release terminal from connector assembly
   - Insert and drive forward extractor tool to release terminal.
   - Pull terminal from rear of connector.

---

**TERMINAL INSTALLATION**

Assure housing TPA is in pre-lock position. Align polarization feature on terminal with keyway in seal cap. Insert terminal and push until seated. Push receptacle TPA back to locked position. Plug TPA will return to locked position when mated with receptacle housing.

---

Service Tool
Order No. 63813-1500
To Mate:
1. Firmly push connectors together until you feel them snap together, you should hear a click. This audible and tactile confirmation ensures the connectors are properly and fully mated.

To Unmate:
1. Pull back CPA
2. Fully depress locking latch

Locking latch must be fully depressed to release the locking ramp on the plug and allow the connectors to be separated!
3. Pull connectors apart

2. Press CPA towards plug to engage the secondary lock.