MX150™
Sealed Connector System
The pre-assembled, submersible MX150™ is a high-performance connector system for challenging, rugged and harsh applications.

The innovative MX150 Sealed Connector System is based upon the 1.50mm (.060") ISO blade-type terminal system, available with pre-Tin, selective Gold and pure Silver contact finishes. It is designed to meet the need for a rugged, environmentally sealed connector system supporting both low-level signal and power applications up to 22.0A. Designed for on-engine automotive to off-road construction equipment applications, the MX150 Sealed Connector System’s reduced package size is ideal for typical SAE-style wire.

The MX150 family consists of 2 types of connection system’s: matte-sealed and cable-sealed designs. The matte-sealed design eliminates the need to purchase, handle and crimp individual wire seals to lower applied cost. It incorporates a single silicone-based seal with individual wire openings allowing for a tighter overall pitch and smaller package size.

The cable-sealed design incorporates individual wire seals crimped to each individual terminal, allowing for superior sealing performance in applications with ‘aggressive’ wire routings.

Both cost-effective connector designs feature all-in-one plug and receptacle housings with pre-assembled, 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 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.

For additional information on Molex’s MX150 product offering, visit: www.molex.com/ind/mx150.html

Markets and Applications
- Automotive vehicles
- Commercial vehicles
- Recreational vehicles
- Industrial vehicles and equipment
- Construction equipment
- Marine equipment

www.molex.com/ind/mx150.html
## Safety/Chassis
- Traction Control
- Brake Control (ABS)
- Stability Control
- Tire Safety
- Adaptive Cruise Control
- Forward Collision Warning
- Airbags/Safety Bags
- Impact Sensors
- Occupant Sensing
- Pedestrian Protection
- Horns
- Fluid Reservoirs

## Powertrain
- Fuel Injection
- Valvetrain
- Emissions Control
- Engine Cooling
- Ignition
- Transmission, Transaxles and 4-Wheel Drive
- Powertrain Harness Connectors
- Powertrain Control Modules
- Spark Plugs
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**Sealed Connector System**

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#### MATTE SEAL CAPABILITIES

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>METRIC</th>
<th>IMPERIAL (U.S.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40° to 125°C</td>
<td>-104° to 257°F</td>
</tr>
<tr>
<td>(USCAR Class III)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current Carrying Capacity</td>
<td></td>
<td>22.0A</td>
</tr>
<tr>
<td>(See Derating Curves below)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wire Range</td>
<td>2.00 to 0.50mm²</td>
<td>14 AWG to 22 AWG</td>
</tr>
<tr>
<td>Insulation Diameter</td>
<td>2.70 to 1.50mm</td>
<td>.06 to .059&quot;</td>
</tr>
<tr>
<td>Terminal Pitch</td>
<td>3.50mm (adjacent terminal)</td>
<td>.138&quot; (adjacent terminal)</td>
</tr>
<tr>
<td>(Matte Seal Product)</td>
<td>6.00mm (row-to-row)</td>
<td>.236&quot; (row to row)</td>
</tr>
<tr>
<td>Connector System Retention (Main Latch)</td>
<td>255N (avg.)</td>
<td>24.7 lbs min.</td>
</tr>
<tr>
<td>USCAR Requirement: Exceeds spec. (more than 2x)</td>
<td></td>
<td>57.3 lbs (avg.)</td>
</tr>
<tr>
<td>Terminal Retention (to Connector)</td>
<td>90N min.</td>
<td>20.2 lbs min.</td>
</tr>
<tr>
<td>USCAR Requirement: Exceeds spec. (more than 2x)</td>
<td>210N (avg.)</td>
<td>47.2 lbs (avg.)</td>
</tr>
<tr>
<td>Sealing Performance</td>
<td>125°C and submerge depth: 40cm water</td>
<td>257°F and submerge depth: 15.75' water 7 psi</td>
</tr>
<tr>
<td>(USCAR-2 Rev. 3) Heat Soak Submersion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(USCAR-2 Rev. 3) Pressure/Vacuum Immersion</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IP Ratings</td>
<td>IP6K7, IP6K9K</td>
<td></td>
</tr>
<tr>
<td>Vibration Performance</td>
<td>180 m/s²/√Hz, 60 to 1,200 Hz</td>
<td>12.1 grams, 60 to 1,200 Hz</td>
</tr>
<tr>
<td>(USCAR-2 Rev. 3) Random “On-Engine” Profile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(USCAR-2 Rev. 3) Mechanical Shock</td>
<td>343 m/s², half sine wave 10 msec pulse</td>
<td>35 g, half sine wave 10 msec pulse</td>
</tr>
<tr>
<td>(GMW3191) Vibration Random “On Engine” Profile</td>
<td>170 m/s²/√Hz, 10 to 1,500 Hz</td>
<td>17.3 grams, 10 to 1,500 Hz</td>
</tr>
<tr>
<td>(GMW3191) Vibration Sine “On Engine” Profile</td>
<td>280 m/s², Pk, 100 to 440 Hz</td>
<td>28.5 g Pk, 100 to 440 Hz</td>
</tr>
<tr>
<td>(GMW3191) Mechanical Shock</td>
<td>245 m/s², half sine wave 10 msec pulse</td>
<td>25 g, half sine wave 10 msec pulse</td>
</tr>
</tbody>
</table>

Note: Matte Sealed Product Specifications PS 33471-0001 and PS 33472-000 available on molex.com

Electrical Requirements validated to USCAR-20 (FCII), USCAR-21, USCAR-2

---

**CURRENT CARRYING CAPACITY CURVE**

**Max Current vs. Ambient Temperature**

![Current vs. Ambient Temperature Graph](image_url)

- 22 AWG Derating Curve
- 20 AWG Derating Curve
- 18 AWG Derating Curve
- 16 AWG Derating Curve
- 14 AWG Derating Curve
1.50mm MX150™ Terminals (060) Sealed Applications
33012/33001 Female

**Features and Benefits**
- Meets USCAR performance testing
- Low insertion force
- Multiple plating options
- Strong crimps
- Accommodates SAE and metric wires
- Sealed and unsealed versions
- Lead free

**Reference Information**
Packaging: Reel
Mates With: 33011, 33000, 31296
Use With: MX150 plastic series 33471, 33472, 33476
Designed In: Millimeters

**Electrical**
- Voltage: 250V
- Current: 22.0A
- Contact Resistance: 10 milliohms max.
- Dielectric Withstanding Voltage: 500V DC
- Insulation Resistance: 20 Megohms min.

**Mechanical**
- Contact Insertion Force: 3.0N average
- Wire Pull-Out Force:
  - 14 AWG—180N min.
  - 22AWG—70N
- Mating Force: 3.0N average
- Unmating Force: 3.0N average
- Normal Force: 6.0N average

**Physical**
- Contact: Copper Alloy
- Plating: Tin, Silver or Gold
- Wire Gauge: 2.00 to 0.35mm² (14 to 22 AWG)
- Insulation Diameter: 2.70 to 1.20mm (.106 to .047")
- Operating Temperature: -40 to +125°C

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Plating</th>
<th>Wire Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>33012-2001</td>
<td>Tin</td>
<td>14 to 16 AWG</td>
</tr>
<tr>
<td>33012-2002</td>
<td>18 to 20 AWG</td>
<td></td>
</tr>
<tr>
<td>33012-2003</td>
<td>22 AWG</td>
<td></td>
</tr>
<tr>
<td>33001-2003</td>
<td>Gold</td>
<td>14 to 16 AWG</td>
</tr>
<tr>
<td>33001-2004</td>
<td>18 to 20 AWG</td>
<td></td>
</tr>
<tr>
<td>33001-2005</td>
<td>22 AWG</td>
<td></td>
</tr>
<tr>
<td>33001-4001</td>
<td>Silver</td>
<td>14 to 16 AWG</td>
</tr>
<tr>
<td>33001-4002</td>
<td>18 to 20 AWG</td>
<td></td>
</tr>
<tr>
<td>33001-4003</td>
<td>22 AWG</td>
<td></td>
</tr>
</tbody>
</table>

---

1.50mm MX150™ Terminals (060) Unsealed Applications
33012 Female

**Features and Benefits**
- Meets USCAR performance testing
- Low insertion force
- Multiple plating options
- Strong crimps
- Accommodates SAE and metric wires
- Sealed and unsealed versions
- Lead free

**Reference Information**
Packaging: Reel
Mates With: 33000 and 33011
Use With: MX150 plastic series 31372
Designed In: Millimeters

**Electrical**
- Voltage: 250V
- Current: 22.0A
- Contact Resistance: 10 milliohms max.
- Dielectric Withstanding Voltage: 500V DC
- Insulation Resistance: 20 Megohms min.

**Mechanical**
- Contact Insertion Force: 3.0N average
- Wire Pull-Out Force:
  - 14 AWG—180N min.
  - 22AWG—70N min.
- Mating Force: 3.0N average
- Unmating Force: 3.0N average
- Normal Force: 6.0N average

**Physical**
- Contact: Copper Alloy
- Plating: Tin
- Wire Gauge: 2.00 to 0.35mm² (14 to 22 AWG)
- Insulation Diameter: 2.70 to 1.20mm (.106 to .047")
- Operating Temperature: -40 to +125°C

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Plating</th>
<th>Wire Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>33012-2021</td>
<td>Tin</td>
<td>14 to 16 AWG</td>
</tr>
<tr>
<td>33012-2022</td>
<td>18 to 20 AWG</td>
<td></td>
</tr>
<tr>
<td>33012-2023</td>
<td>22 AWG</td>
<td></td>
</tr>
</tbody>
</table>
**1.50mm MX150™ Terminals (060)**

**33011/33000**

**Male**

**Features and Benefits**
- Meets USCAR performance testing
- Low insertion force
- Multiple plating options
- Strong crimps
- Accommodates SAE and metric wires
- Sealed and unsealed versions
- Lead free

**Reference Information**
- Packaging: Reel
- Mates With: 33012 and 33001
- Use With: MX150 plastic series 33481, 33482 and 33486
- Designed In: Millimeters

**Electrical**
- Voltage: 250V
- Current: 22.0A
- Contact Resistance: 10 milliohms max.
- Dielectric Withstanding Voltage: 500V DC
- Insulation Resistance: 20 Megohms min.

**Mechanical**
- Contact Insertion Force: 3.0N average
- Wire Pull-Out Force:
  - 14 AWG—180N min.
  - 22AWG—70N min.
- Mating Force: 3.0N average
- Unmating Force: 3.0N average
- Normal Force: 6.0N average
- Nominal Width: 1.50mm
- Nominal Thickness: 0.80mm

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Plating</th>
<th>Wire Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>33000-0001</td>
<td>Tin</td>
<td>14 AWG</td>
</tr>
<tr>
<td>33000-0002</td>
<td>Tin</td>
<td>16 to 20 AWG</td>
</tr>
<tr>
<td>33000-0003</td>
<td>Tin</td>
<td>22 AWG</td>
</tr>
<tr>
<td>33011-1002</td>
<td>Gold</td>
<td>14 AWG</td>
</tr>
<tr>
<td>33011-1004</td>
<td>Gold</td>
<td>16 to 20 AWG</td>
</tr>
<tr>
<td>33011-1006</td>
<td>Gold</td>
<td>22 AWG</td>
</tr>
<tr>
<td>33011-2001</td>
<td>Silver</td>
<td>14 AWG</td>
</tr>
<tr>
<td>33011-2002</td>
<td>Silver</td>
<td>16 to 20 AWG</td>
</tr>
<tr>
<td>33011-2003</td>
<td>Silver</td>
<td>22 AWG</td>
</tr>
</tbody>
</table>

**1.50mm MX150™ Terminals (060) Sealed Shorting-Bar Applications**

**31296**

**Male**

**Features and Benefits**
- Meets USCAR performance testing
- Low insertion force
- Multiple plating options
- Strong crimps
- Accommodates SAE and metric wires
- Sealed and unsealed versions
- Lead free

**Reference Information**
- Packaging: Reel
- Mates With: 33012, 33001
- Use With: MX150 plastic series 31280
- Designed In: Millimeters

**Electrical**
- Voltage: 250V
- Current: 15.0A
- Contact Resistance: 10 milliohms max.
- Dielectric Withstanding Voltage: 500V DC
- Insulation Resistance: 20 Megohms min.

**Mechanical**
- Contact Insertion Force: 3.0N average
- Wire Pull-Out Force:
  - 14 AWG—180N min.
  - 22AWG—70N min.
- Mating Force: 3.0N average
- Unmating Force: 3.0N average
- Normal Force: 6.0N average
- Nominal Width: 1.50mm
- Nominal Thickness: 0.80mm

**Physical**
- Contact: Copper Alloy
- Plating: Tin or Gold
- Wire Gauge: 2.00 to 0.35mm² (14 to 22 AWG)
- Insulation Diameter: 2.70 to 1.20mm (.106 to .047”)
- Operating Temperature: -40 to +125°C

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Plating</th>
<th>Wire Gauge</th>
</tr>
</thead>
<tbody>
<tr>
<td>31296-1008</td>
<td>Gold</td>
<td>18 to 20 AWG</td>
</tr>
</tbody>
</table>
Exploded View of Connector System

System Cross Section

Retention Clip-Slot Feature

Overall Mated Lengths
FEATURES AND SPECIFICATIONS

**Features and Benefits**
- Meets USCAR performance requirements
- Smallest 1.50mm (.059”) sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

**Reference Information**
Packaging: Bulk
Mates With: 33481
Use With: 33000 and 33011 MX150 terminals
Designed In: Millimeters

**Electrical**
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

---

**1.50mm MX150™ (060) 1-by-2 Connector**

**Features and Benefits**
- Meets USCAR performance requirements
- Smallest 1.50mm (.059”) sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Clip slot standard

**Reference Information**
Packaging: Bulk
Mates With: 33471
Use With: 33012 and 33001 MX150 terminals
Designed In: Millimeters

**Electrical**
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

---

**Order No.** | **Polarity** | **Color** | **CPA**
---|---|---|---
33471-0201 | A | Black | No
33471-0202 | B | Light Gray | Yes
33471-0203 | C | Dark Gray | Yes
33471-0205 | A | Black | No
33471-0206 | B | Light Gray | Yes
33471-0207 | C | Dark Gray | Yes

See sales drawing on molex.com for specific knockout requests

---

**Mechanical**
- Contact Insertion Force: Less than 15N
- Contact Retention to Housing: 110N min.
- Wire Pull-Out Force: 90N min.
- Mating Force: 75N max.
- Unmating Force: 75N max.
- Normal Force: Terminal dependent

**Physical**
- Housing: 30% glass filled nylon, UL 94-HB
- Contact: Copper Alloy
- Contact Plating: Tin, Silver or Gold
- Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
- Insulation Diameter: 2.70 to 1.50mm (.106 to .059”)
- Operating Temperature: -40 to +125°C
- Pitch: 3.50mm (.138”)

---

**Order No.** | **Polarity** | **Color**
---|---|---
33481-0201 | A | Black
33481-0202 | B | Light Gray
33481-0203 | C | Dark Gray

See sales drawing on molex.com for specific knockout requests

---

**Order No.** | **Polarity** | **Color**
---|---|---
33481-0201 | A | Black
33481-0202 | B | Light Gray
33481-0203 | C | Dark Gray

See sales drawing on molex.com for specific knockout requests

---

**Mechanical**
- Contact Insertion Force: Less than 15N
- Contact Retention to Housing: 110N min.
- Wire Pull-Out Force: 90N min.
- Mating Force: 75N max.
- Unmating Force: 75N max.
- Normal Force: Terminal dependent

**Physical**
- Housing: 30% glass filled nylon, UL 94-HB
- Contact: Copper Alloy
- Contact Plating: Tin, Silver or Gold
- Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
- Insulation Diameter: 2.70 to 1.50mm (.106 to .059”)
- Operating Temperature: -40 to +125°C
- Pitch: 3.50mm (.138”)

---

**Order No.** | **Polarity** | **Color**
---|---|---
33481-0201 | A | Black
33481-0202 | B | Light Gray
33481-0203 | C | Dark Gray

See sales drawing on molex.com for specific knockout requests
FEATURES AND SPECIFICATIONS

Features and Benefits

- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

Reference Information

Packaging: Bulk
Mates With: 33481
Use With: 33012 and 33001 MX150 terminals
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

Physical

Housing: 30% glass filled nylon, UL 94-HB
Contact: Copper Alloy
Contact Plating: Tin, Silver or Gold
Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
Operating Temperature: -40 to +125°C
Pitch: 3.50mm (.138")

Mechanical

Contact Insertion Force: Less than 15N
Contact Retention to Housing: 110N min.
Wire Pull-Out Force: 90N min.
Mating Force: 75N max.
Unmating Force: 75N max.
Normal Force: Terminal dependent

FEATURES AND SPECIFICATIONS

Features and Benefits

- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

Reference Information

Packaging: Bulk
Mates With: 33471
Use With: 33000 and 33011 MX150 terminals
Designed In: Millimeters

Electrical

Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

Physical

Housing: 30% glass filled nylon, UL 94-HB
Contact: Copper Alloy
Contact Plating: Tin, Silver or Gold
Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
Operating Temperature: -40 to +125°C
Pitch: 3.50mm (.138")

Mechanical

Contact Insertion Force: Less than 15N
Contact Retention to Housing: 110N min.
Wire Pull-Out Force: 90N min.
Mating Force: 75N max.
Unmating Force: 75N max.
Normal Force: Terminal dependent

See sales drawing on molex.com for specific knockout requests
**FEATURES AND SPECIFICATIONS**

**Features and Benefits**
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

**Reference Information**
Packaging: Bulk
Mates With: 33481
Use With: 33000 and 33011 MX150 terminals
Designed In: Millimeters

**Electrical**
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

---

**1.50mm MX150™ (060) 1-by-4 Receptacle**

**33471 Female**

**Mechanical**
- Contact Insertion Force: Less than 15N
- Contact Retention to Housing: 110N min.
- Wire Pull-Out Force: 90N min.
- Mating Force: 75N max.
- Unmating Force: 75N max.
- Normal Force: Terminal dependent

**Physical**
- Housing: 30% glass filled nylon, UL 94-HB
- Contact: Copper Alloy
- Contact Plating: Tin, Silver or Gold
- Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
- Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
- Operating Temperature: -40 to +125°C
- Pitch: 3.50mm (.138")

---

**1.50mm MX150™ (060) 1-by-4 Connector**

**33481 Male**

**Mechanical**
- Contact Insertion Force: Less than 15N
- Contact Retention to Housing: 110N min.
- Wire Pull-Out Force: 90N min.
- Mating Force: 75N max.
- Unmating Force: 75N max.
- Normal Force: Terminal dependent

**Physical**
- Housing: 30% glass filled nylon, UL 94-HB
- Contact: Copper Alloy
- Contact Plating: Tin, Silver or Gold
- Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
- Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
- Operating Temperature: -40 to +125°C
- Pitch: 3.50mm (.138")

---

See sales drawing on molex.com for specific knockout requests.
FEATURES AND SPECIFICATIONS

Features and Benefits
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

Reference Information
Packaging: Bulk
Mates With: 31280
Use With: 33001 Gold MX150 Terminals
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

Mechanical
Contact Insertion Force: Less than 15N
Contact Retention to Housing: 110N min.
Wire Pull-Out Force: 90N min.
Mating Force: 75N max.
Unmating Force: 75N max.
Normal Force: Terminal dependent

Physical
Housing: 30% glass filled nylon, UL 94-HB
Contact: Copper Alloy
Contact Plating: Gold
Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
Operating Temperature: -40 to +125°C
Pitch: 3.50mm (.138")

See sales drawing on molex.com for specific knockout requests

---

1.50mm MX150™
(060) 1-by-4 Receptacle
(with Shorting-Bar)

33471
Female

Order No. | Polarity | Color | CPA
---|---|---|---
33471-0436 | A | Black | No
33471-0437 | B | Gray | Yes
33471-0438 | C | Brown |
33471-0439 | D | Green |
33471-0446 | A | Black |
33471-0447 | B | Gray |
33471-0448 | C | Brown |
33471-0449 | D | Green |

See sales drawing on molex.com for specific knockout requests

---

1.50mm MX150™
(060) 1-by-4 Connector
(with Shorting-Bar)

31280
Male

Order No. | Polarity | Color
---|---|---
31280-0436 | A | Black
31280-0437 | B | Gray
31280-0438 | C | Brown
31280-0439 | D | Green

See sales drawing on molex.com for specific knockout requests
FEATURES AND SPECIFICATIONS

**Features and Benefits**
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

**Reference Information**
Packaging: Bulk
Mates With: 33481
Use With: 33000 and 33011 MX150 terminals
Designed In: Millimeters

**Electrical**
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

---

**Mechanical**
Contact Insertion Force: Less than 15N
Contact Retention to Housing: 110N min.
Wire Pull-Out Force: 90N min.
Mating Force: 75N max.
Unmating Force: 75N max.
Normal Force: Terminal dependent

**Physical**
Housing: 30% glass filled nylon, UL 94-HB
Contact: Copper Alloy
Contact Plating: Tin, Silver or Gold
Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
Operating Temperature: -40 to +125°C
Pitch: 3.50mm (.138")

---

See sales drawing on molex.com for specific knockout requests

---

**FEATURES AND SPECIFICATIONS**

**Features and Benefits**
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Clip slot standard

**Reference Information**
Packaging: Bulk
Mates With: 33481
Use With: 33000 and 33011 MX150 terminals
Designed In: Millimeters

**Electrical**
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

---

**Mechanical**
Contact Insertion Force: Less than 15N
Contact Retention to Housing: 110N min.
Wire Pull-Out Force: 90N min.
Mating Force: 75N max.
Unmating Force: 75N max.
Normal Force: Terminal dependent

**Physical**
Housing: 30% glass filled nylon, UL 94-HB
Contact: Copper Alloy
Contact Plating: Tin, Silver or Gold
Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
Operating Temperature: -40 to +125°C
Pitch: 3.50mm (.138")

---

See sales drawing on molex.com for specific knockout requests
FEATURES AND SPECIFICATIONS

**Features and Benefits**
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

**Reference Information**
Packaging: Bulk
Mates With: 33481
Use With: 33001 and 33012 MX150 terminals
Designed In: Millimeters

**Electrical**
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Polarity</th>
<th>Color</th>
<th>CPA</th>
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<tbody>
<tr>
<td>33471-0601</td>
<td>A</td>
<td>Black</td>
<td>No</td>
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<tr>
<td>33471-0602</td>
<td>B</td>
<td>Gray</td>
<td></td>
</tr>
<tr>
<td>33471-0603</td>
<td>C</td>
<td>Brown</td>
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<tr>
<td>33471-0604</td>
<td>D</td>
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<td>Yes</td>
</tr>
<tr>
<td>33471-0606</td>
<td>A</td>
<td>Black</td>
<td></td>
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<tr>
<td>33471-0607</td>
<td>B</td>
<td>Gray</td>
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<td>33471-0609</td>
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</table>

See sales drawing on molex.com for specific knockout requests

---

**FEATURES AND SPECIFICATIONS**

**Features and Benefits**
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Clipslot standard

**Reference Information**
Packaging: Bulk
Mates With: 33481
Use With: 33000 and 33011 MX150 terminals
Designed In: Millimeters

**Electrical**
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

<table>
<thead>
<tr>
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<th>Color</th>
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</thead>
<tbody>
<tr>
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<td>A</td>
<td>Black</td>
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<tr>
<td>33481-0602</td>
<td>B</td>
<td>Gray</td>
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<tr>
<td>33481-0603</td>
<td>C</td>
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</tr>
<tr>
<td>33481-0604</td>
<td>D</td>
<td>Green</td>
</tr>
</tbody>
</table>

See sales drawing on molex.com for specific knockout requests
Exploded View of Connector System

System Cross Sections

Retention Clip-Slot Feature

Overall Mated Lengths
### FEATURES AND SPECIFICATIONS

**Female Recptacle Polarities**

**Meets USCAR performance requirements**
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

**Reference Information**
- Packaging: Bulk
- Mates With: 33482
- Use With: 33001 and 33012 MX150 terminals
- Designed In: Millimeters

**Electrical**
- Voltage: 250V
- Current: 22.0A
- Contact Resistance: 10 milliohms max.
- Dielectric Withstanding Voltage: 500V DC
- Insulation Resistance: 20 Megohms min.

**Features and Benefits**
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

**Mechanical**
- Contact Insertion Force: Less than 15N
- Contact Retention to Housing: 110N min.
- Wire Pull-Out Force: 90N min.
- Mating Force: 75N max.
- Unmating Force: 75N max.
- Normal Force: Terminal dependent

**Physical**
- Housing: 30% glass filled nylon, UL 94-HB
- Contact: Copper Alloy
- Contact Plating: Tin, Silver or Gold
- Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
- Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
- Operating Temperature: -40 to +125°C
- Pitch: 3.50mm (.138")

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<th>Color</th>
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</thead>
<tbody>
<tr>
<td>33472-0401</td>
<td>A</td>
<td>Black</td>
</tr>
<tr>
<td>33472-0402</td>
<td>B</td>
<td>Gray</td>
</tr>
<tr>
<td>33472-0403</td>
<td>C</td>
<td>Brown</td>
</tr>
<tr>
<td>33472-0404</td>
<td>D</td>
<td>Green</td>
</tr>
</tbody>
</table>

See sales drawing on molex.com for specific knockout requests

### FEATURES AND SPECIFICATIONS

**Male Connector Polarities**

**Meets USCAR performance requirements**
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

**Reference Information**
- Packaging: Bulk
- Mates With: 33472
- Use With: 33000 and 33011 MX150 terminals
- Designed In: Millimeters

**Electrical**
- Voltage: 250V
- Current: 22.0A
- Contact Resistance: 10 milliohms max.
- Dielectric Withstanding Voltage: 500V DC
- Insulation Resistance: 20 Megohms min.

**Features and Benefits**
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

**Mechanical**
- Contact Insertion Force: Less than 15N
- Contact Retention to Housing: 110N min.
- Wire Pull-Out Force: 90N min.
- Mating Force: 75N max.
- Unmating Force: 75N max.
- Normal Force: Terminal dependent

**Physical**
- Housing: 30% glass filled nylon, UL 94-HB
- Contact: Copper Alloy
- Contact Plating: Tin, Silver or Gold
- Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
- Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
- Operating Temperature: -40 to +125°C
- Pitch: 3.50mm (.138")

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<th>Color</th>
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</thead>
<tbody>
<tr>
<td>33482-0401</td>
<td>A</td>
<td>Black</td>
</tr>
<tr>
<td>33482-0402</td>
<td>B</td>
<td>Gray</td>
</tr>
<tr>
<td>33482-0403</td>
<td>C</td>
<td>Brown</td>
</tr>
<tr>
<td>33482-0404</td>
<td>D</td>
<td>Green</td>
</tr>
</tbody>
</table>

See sales drawing on molex.com for specific knockout requests
FEATURES AND SPECIFICATIONS

Features and Benefits
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

Reference Information
- Packaging: Bulk
- Mates With: 33482
- Use With: 33001 and 33012 MX150 terminals
- Designed In: Millimeters

Electrical
- Voltage: 250V
- Current: 22.0A
- Contact Resistance: 10 milliohms max.
- Dielectric Withstanding Voltage: 500V DC
- Insulation Resistance: 20 Megohms min.

Mechanical
- Contact Insertion Force: Less than 15N
- Contact Retention to Housing: 110N min.

Features and Benefits
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Clip slot standard

Reference Information
- Packaging: Bulk
- Mates With: 33472
- Use With: 33001 and 33012 MX150 terminals
- Designed In: Millimeters

Electrical
- Voltage: 250V
- Current: 22.0A
- Contact Resistance: 10 milliohms max.
- Dielectric Withstanding Voltage: 500V DC
- Insulation Resistance: 20 Megohms min.

Mechanical
- Contact Insertion Force: Less than 15N
- Contact Retention to Housing: 110N min.

Molex MX150™
1.50mm (060) 2-by-3 Receptacle
33472 Female

Order No. Polarity Color CPA Clipslot
33472-0601 A Black No
33472-0602 B Gray Yes
33472-0603 C Brown No
33472-0604 D Green Yes
33472-0606 A Black Yes
33472-0607 B Gray No
33472-0608 C Brown Yes
33472-0609 D Green No
33472-0701 A Black Yes
33472-0702 B Light Gray No
33472-0703 C Brown Yes
33472-0704 D Green No
33472-0705 A Black Yes
33472-0706 B Light Gray No
33472-0707 C Brown Yes
33472-0708 D Green No

See sales drawing on molex.com for specific knockout requests

Molex MX150™
1.50mm (060) 2-by-3 Connector
33482 Male

Order No. Polarity Color
33482-0601 A Black
33482-0602 B Gray
33482-0603 C Brown
33482-0604 D Green

See sales drawing on molex.com for specific knockout requests
FEATURES AND SPECIFICATIONS

Features and Benefits
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

Reference Information
Packaging: Bulk
Mates With: 33482
Use With: 33001 and 33012 MX150 terminals
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

Mechanical
Contact Insertion Force: Less than 15N
Contact Retention to Housing: 110N min.
Wire Pull-Out Force: 90N min.

Features and Benefits
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Clip slot standard

Reference Information
Packaging: Bulk
Mates With: 33472
Use With: 33000 and 33011 MX150 terminals
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

Mating Force: 75N max.
Unmating Force: 75N max.
Normal Force: Terminal dependent

Physical
Housing: 30% glass filled nylon, UL 94-HB
Contact: Copper Alloy
Contact Plating: Tin, Silver or Gold
Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
Operating Temperature: -40 to +125°C
Pitch: 3.50mm (.138")

See sales drawing on molex.com for specific knockout requests

1.50mm MX150™ (060) 2-by-4 Receptacle
33472 Female

Order No. | Polarity | Color | CPA | Clipslot
---|---|---|---|---
33472-0801 | A | Black | No | No
33472-0802 | B | Gray | | |
33472-0803 | C | Brown | Yes | |
33472-0804 | D | Green | | |
33472-0806 | A | Black | Yes | |
33472-0807 | B | Gray | Yes | |
33472-0808 | C | Brown | Yes | |
33472-0809 | D | Green | Yes | |
33472-0901 | A | Black | No | |
33472-0902 | B | Light Gray | | |
33472-0903 | C | Brown | No | |
33472-0904 | D | Green | Yes | |
33472-0906 | A | Black | Yes | |
33472-0907 | B | Light Gray | Yes | |
33472-0908 | C | Brown | Yes | |
33472-0909 | D | Green | Yes | |

1.50mm MX150™ (060) 2-by-4 Connector
33482 Male

Mechanical
Contact Insertion Force: Less than 15N
Contact Retention to Housing: 110N min.
Wire Pull-Out Force: 90N min.
Mating Force: 75N max.
Unmating Force: 75N max.
Normal Force: Terminal dependent

Physical
Housing: 30% glass filled nylon, UL 94-HB
Contact: Copper Alloy
Contact Plating: Tin, Silver or Gold
Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
Operating Temperature: -40 to +125°C
Pitch: 3.50mm (.138")

See sales drawing on molex.com for specific knockout requests

Order No. | Polarity | Color
---|---|---
33482-0801 | A | Black
33482-0802 | B | Gray
33482-0803 | C | Brown
33482-0804 | D | Green
FEATURES AND SPECIFICATIONS

Features and Benefits
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

Reference Information
Packaging: Bulk
Mates With: 33482
Use With: 33001 and 33012 MX150 terminals
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

Mechanical
Contact Insertion Force: Less than 15N
Contact Retention to Housing: 110N min.
Wire Pull-Out Force: 90N min.

Female Receptacle Polarity

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Polarity</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>33472-1201</td>
<td>A</td>
<td>Black</td>
</tr>
<tr>
<td>33472-1202</td>
<td>B</td>
<td>Gray</td>
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<tr>
<td>33472-1203</td>
<td>C</td>
<td>Brown</td>
</tr>
<tr>
<td>33472-1204</td>
<td>D</td>
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</tbody>
</table>

FEATURES AND SPECIFICATIONS

Features and Benefits
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Clip slot standard

Reference Information
Packaging: Bulk
Mates With: 33472
Use With: 33001 and 33012 MX150 terminals
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

Male Connector Polarity

<table>
<thead>
<tr>
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<th>Polarity</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>33482-1201</td>
<td>A</td>
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<tr>
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<td>B</td>
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<td>C</td>
<td>Brown</td>
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<td>33482-1204</td>
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</tbody>
</table>

See sales drawing on molex.com for specific knockout requests.
FEATURES AND SPECIFICATIONS

Features and Benefits
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

Reference Information
Packaging: Bulk
Mates With: 33482
Use With: 33001 and 33012 MX150 terminals
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

1.50mm MX150™
(060) 2-by-8 Receptacle
33472
Female

Mechanical
Contact Insertion Force: Less than 15N
Contact Retention to Housing: 110N min.
Wire Pull-Out Force: 90N min.
Mating Force: 75N max.
Unmating Force: 75N max.
Normal Force: Terminal dependent

Physical
Housing: 30% glass filled nylon, UL 94-HB
Contact: Copper Alloy
Contact Plating: Tin, Silver or Gold
Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
Operating Temperature: -40 to +125°C
Pitch: 3.50mm (.138")

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<tr>
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<th>Color</th>
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<tbody>
<tr>
<td>33472-1601</td>
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<tr>
<td>33472-1602</td>
<td>B</td>
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<td>33472-1603</td>
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<td>Brown</td>
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<tr>
<td>33472-1604</td>
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</tbody>
</table>

See sales drawing on molex.com for specific knockout requests

FEATURES AND SPECIFICATIONS

Features and Benefits
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Clip slot standard

Reference Information
Packaging: Bulk
Mates With: 33482
Use With: 33000 and 33011 MX150 terminals
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

1.50mm MX150™
(060) 2-by-8 Connector
33482
Male

Mechanical
Contact Insertion Force: Less than 15N
Contact Retention to Housing: 110N min.
Wire Pull-Out Force: 90N min.
Mating Force: 75N max.
Unmating Force: 75N max.
Normal Force: Terminal dependent

Physical
Housing: 30% glass filled nylon, UL 94-HB
Contact: Copper Alloy
Contact Plating: Tin, Silver or Gold
Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
Operating Temperature: -40 to +125°C
Pitch: 3.50mm (.138")

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<tr>
<td>33482-1603</td>
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</tr>
<tr>
<td>33482-1604</td>
<td>D</td>
<td>Green</td>
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</tbody>
</table>

See sales drawing on molex.com for specific knockout requests
FEATURES AND SPECIFICATIONS

**Features and Benefits**
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

**Reference Information**
Packaging: Bulk
Mates With: 33482
Use With: 33001 and 33012 MX150 terminals
Designed In: Millimeters

**Electrical**
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

---

**Features and Benefits**
- Meets USCAR performance requirements
- Smallest 1.50mm (.059") sealed connector in the market
- Terminal retention is 2x industry standard
- Matte seal design
- Polarization options available
- Available with or without CPA

**Reference Information**
Packaging: Bulk
Mates With: 33472
Use With: 33000 and 33011 MX150 terminals
Designed In: Millimeters

**Electrical**
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

---

### 1.50mm MX150™
(060) 2-by-10 Receptacle

**33472 Female**

**Mechanical**
- Contact Insertion Force: Less than 15N
- Contact Retention to Housing: 110N min.
- Wire Pull-Out Force: 90N min.
- Mating Force: 75N max.
- Unmating Force: 75N max.
- Normal Force: Terminal dependent

**Physical**
- Housing: 30% glass filled nylon, UL 94-HB
- Contact: Copper Alloy
- Contact Plating: Tin, Silver or Gold
- Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
- Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
- Operating Temperature: -40 to +125°C
- Pitch: 3.50mm (.138")

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<tr>
<th>Order No.</th>
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<td>A</td>
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</tr>
<tr>
<td>33472-2002</td>
<td>B</td>
<td>Gray</td>
</tr>
<tr>
<td>33472-2003</td>
<td>C</td>
<td>Brown</td>
</tr>
<tr>
<td>33472-2004</td>
<td>D</td>
<td>Green</td>
</tr>
</tbody>
</table>

See sales drawing on molex.com for specific knockout requests

---

### 1.50mm MX150™
(060) 2-by-10 Connector

**33482 Male**

**Mechanical**
- Contact Insertion Force: Less than 15N
- Contact Retention to Housing: 110N min.
- Wire Pull-Out Force: 90N min.
- Mating Force: 75N max.
- Unmating Force: 75N max.
- Normal Force: Terminal dependent

**Physical**
- Housing: 30% glass filled nylon, UL 94-HB
- Contact: Copper Alloy
- Contact Plating: Tin, Silver or Gold
- Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
- Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
- Operating Temperature: -40 to +125°C
- Pitch: 3.50mm (.138")

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Polarity</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>33482-2001</td>
<td>A</td>
<td>Black</td>
</tr>
<tr>
<td>33482-2002</td>
<td>B</td>
<td>Gray</td>
</tr>
<tr>
<td>33482-2003</td>
<td>C</td>
<td>Brown</td>
</tr>
<tr>
<td>33482-2004</td>
<td>D</td>
<td>Green</td>
</tr>
</tbody>
</table>

See sales drawing on molex.com for specific knockout requests
Exploded View of Connector System

System Cross Sections

Retention Clip-Slot Feature

Overall Mated Lengths

* Connectors ship pre-assembled
FEATURES AND SPECIFICATIONS

Features and Benefits
- Combines 1.50 and 2.80mm (.059 and .110") terminals in same connector
- Terminal retention is 2x industry standard
- Polarization options available
- Available with or without CPA
- With or without clip slot

Reference Information
Packaging: Bag
Materials with: 33476
Use With:
MX150 1.50mm and Yazaki 2.80mm terminals
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 22.0A for 1.50mm terminals and 25.0A for 2.80mm terminals
Contact Resistance:
10 milliohms max. for 1.50mm terminal
5 milliohms max. for 2.80mm terminal
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

Mechanical
Contact Insertion Force: Less than 15N
Contact Retention to Housing: 110N min.
Wire Pull-Out Force: 90N min.
Mating Force: 75N max.
Unmating Force: 75N max.
Normal Force: Terminal dependent

Physical
Housing: 30% glass filled nylon, UL94 — HB

2.80mm terminals
Contact: Copper Alloy
Contact Plating: Tin
Wire Gauge: 12 to 22 AWG
Operating Temperature: -40 to +125°C

1.50mm terminals
Contact: Copper Alloy
Contact Plating: Tin, Silver or Gold
Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
Operating Temperature: -40 to +125°C

Order No. | Polarity | Color | CPA | Clipslot
---|---|---|---|---
33476-1601 | A | Black | No | No
33476-1602 | B | Light Gray | Yes | No
33476-1603 | C | Brown | Yes | No
33476-1604 | D | Green | Yes | Yes
33476-1606 | A | Black | No | No
33476-1607 | B | Light Gray | No | Yes
33476-1608 | C | Brown | No | Yes
33476-1609 | D | Green | No | Yes
33476-1841 | A | Black | No | No
33476-1849 | | | | Yes

See sales drawing on molex.com for specific knockout requests

FEATURES AND SPECIFICATIONS

Features and Benefits
- Combines 1.50 and 2.80mm (.059 and .110") terminals in same connector
- Terminal retention is 2x industry standard
- Polarization options available
- Clip slot standard on male side

Reference Information
Packaging: Bag
Materials with: 33486
Use With:
MX150 1.50mm and Yazaki 2.80mm terminals
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 22.0A for 1.50mm terminals and 25.0A for 2.80mm terminals
Contact Resistance:
10 milliohms max. for 1.50mm terminal
5 milliohms max. for 2.80mm terminal
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

Mechanical
Contact Insertion Force: Less than 15N
Contact Retention to Housing: 110N min.
Wire Pull-Out Force: 90N min.
Mating Force: 75N max.
Unmating Force: 75N max.
Normal Force: Terminal dependent

Physical
Housing: 30% glass filled nylon, UL94 — HB

2.80mm terminals
Contact: Copper Alloy
Contact Plating: Tin
Wire Gauge: 12 to 22 AWG
Operating Temperature: -40 to +125°C

1.50mm terminals
Contact: Copper Alloy
Contact Plating: Tin, Silver, Gold
Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
Operating Temperature: -40 to +125°C

Order No. | Pol. | Color
---|---|---
33486-1601 | A | Black
33486-1602 | B | Light Gray
33486-1603 | C | Brown
33486-1604 | D | Green

See sales drawing on molex.com for specific knockout requests
**FEATURES AND SPECIFICATIONS**

### Mechanical
- **Contact Insertion Force:** Less than 15N
- **Contact Retention to Housing:** 110N min.
- **Wire Pull-Out Force:** 90N min.
- **Mating Force:** 75N max.
- **Unmating Force:** 75N max.
- **Normal Force:** Terminal dependent

### Physical
- **Housing:** 30% glass filled nylon, UL94 — HB

#### 8.0mm terminals
- **Contact:** Copper Alloy
- **Contact Plating:** Tin
- **Wire Gauge:** 12 to 22 AWG
- **Operating Temperature:** -40 to +125°C

#### 1.50mm terminals
- **Contact:** Copper Alloy
- **Contact Plating:** Tin, Silver, Gold
- **Wire Gauge:** 2.00 to 0.50mm² (14 to 22 AWG)
- **Operating Temperature:** -40 to +125°C

### Order No. | Polarity | Color | CPA | Clipslot
---|---|---|---|---
| 33486-1701 | E | Black | No | No
| 33486-1702 | F | Light Gray | No | No
| 33486-1703 | G | Brown | No | No
| 33486-1704 | H | Yellow | No | No
| 33486-1713 | E | Black | No | Yes

See sales drawing on molex.com for specific knockout requests.

---

**FEATURES AND SPECIFICATIONS**

### Mechanical
- **Contact Insertion Force:** Less than 15N
- **Contact Retention to Housing:** 110N min.
- **Wire Pull-Out Force:** 90N min.
- **Mating Force:** 75N max.
- **Unmating Force:** 75N max.
- **Normal Force:** Terminal dependent

### Physical
- **Housing:** 30% glass filled nylon, UL94 — HB

#### 8.0mm terminals
- **Contact:** Copper Alloy
- **Contact Plating:** Tin
- **Wire Gauge:** 12 to 22 AWG
- **Operating Temperature:** -40 to +125°C

#### 1.50mm terminals
- **Contact:** Copper Alloy
- **Contact Plating:** Tin, Silver, Gold
- **Wire Gauge:** 2.00 to 0.50mm² (14 to 22 AWG)
- **Operating Temperature:** -40 to +125°C

### Order No. | Polarity | Color | CPA | Clipslot
---|---|---|---|---
| 33486-1701 | E | Black | No | No
| 33486-1702 | F | Light Gray | No | No
| 33486-1703 | G | Brown | No | No
| 33486-1704 | H | Yellow | No | No

See sales drawing on molex.com for specific knockout requests.
FEATURES AND SPECIFICATIONS

**Circuit Plugs**
- Low volume option and general market
- Can be used with male and female connectors
- Order No. 34345-0001

**Breakaway Plugs**
- Programmed punch-out station for larger volumes
- Serialized part numbers
- Pegs can be removed for various configurations

As Molded

12 circuit Breakaway Plug
(4 cavities plugged shown)
# SPECIFICATIONS

## MX150™

Cable Seal Capabilities

### DESCRIPTION

<table>
<thead>
<tr>
<th>Metric</th>
<th>Imperial (U.S.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range (USCAR Class III)</td>
<td>-40 to 125°C</td>
</tr>
<tr>
<td>Current Carrying Capacity (See Derating Curves below)</td>
<td>22.0A</td>
</tr>
<tr>
<td>Wire Range</td>
<td>2.00 to 0.50mm²</td>
</tr>
<tr>
<td>Insulation Diameter</td>
<td>2.70 to 1.40mm</td>
</tr>
<tr>
<td>Connector System Retention (Main Latch) USCAR Requirement: Exceeds spec. (more than 2x)</td>
<td>255N (avg.)</td>
</tr>
<tr>
<td></td>
<td>57.3 lbs (avg.)</td>
</tr>
<tr>
<td>Terminal Retention (to Connector) USCAR Requirement: Exceeds spec. (more than 2x)</td>
<td>90N min.</td>
</tr>
<tr>
<td></td>
<td>210N (avg.)</td>
</tr>
<tr>
<td>Sealing Performance (USCAR-2 Rev. 3) Heat Sink Submersion (USCAR-2 Rev. 3) Pressure/Vacuum Immersion</td>
<td>125°C and submerge depth: 40cm water 125°C and submerge depth: 15.75' water 7 psi</td>
</tr>
<tr>
<td>IP Ratings</td>
<td>IP6K7, IP6K9K</td>
</tr>
<tr>
<td>Vibration Performance (USCAR-2 Rev. 3) Random “On-Engine” Profile</td>
<td>118.7 m/s² RMS</td>
</tr>
<tr>
<td></td>
<td>60 to 1,000 Hz</td>
</tr>
<tr>
<td>(USCAR-2 Rev. 3) Mechanical Shock</td>
<td>343 m/s² half sine wave</td>
</tr>
<tr>
<td></td>
<td>10 msec pulse</td>
</tr>
<tr>
<td>(GMW3191) Vibration Random “On Engine” Profile</td>
<td>170 m/s² RMS</td>
</tr>
<tr>
<td></td>
<td>10 to 1,500 Hz</td>
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<tr>
<td>(GMW3191) Vibration Sine “On Engine” Profile</td>
<td>280 m/s² Pk</td>
</tr>
<tr>
<td></td>
<td>100 to 440 Hz</td>
</tr>
<tr>
<td>(GMW3191) Mechanical Shock</td>
<td>245 m/s² half sine wave</td>
</tr>
<tr>
<td></td>
<td>10 msec pulse</td>
</tr>
</tbody>
</table>

Note: Cable Seal Product Specification PS 34062-000 and PS 34250-000 available on molex.com

Electrical Requirements validated to USCAR-20 (FCLT), USCAR-21, USCAR-2

### CURRENT CARRYING CAPACITY CURVE

**Max Current vs. Ambient Temperature**

![Current Carrying Capacity Curve](image_url)
Exploded View of Connector System

System Cross Sections

Retention Clip-Slot Feature

Overall Mated Length
### FEATURES AND SPECIFICATIONS

#### Features and Benefits
- Meets USCAR performance testing
- Low insertion force
- Multiple plating options
- Strong crimps
- Accommodates SAE and metric wires
- Sealed and unsealed versions
- Lead free

#### Reference Information
- Packaging: Reel
- Mates With: 34080
- Use With: MX150 plastic series 34250, 34062
- Designed In: Millimeters

#### Electrical
- Voltage: 250V
- Current: 22.0A
- Contact Resistance: 10 milliohms max.
- Dielectric Withstanding Voltage: 500V DC
- Insulation Resistance: 20 Megohms min.

#### Mechanical
- Contact Insertion Force: 3.0N average
- Wire Pull-Out Force:
  - 14 AWG—180N min.
  - 22AWG—70N min.
- Mating Force: 3.0N average
- Unmating Force: 3.0N average
- Normal Force: 6.0N average

#### Physical
- Contact: Copper Alloy
- Plating: Tin, Silver or Gold
- Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
- Insulation Diameter: 2.70 to 1.40mm (.106 to .055")
- Operating Temperature: -40 to +125°C

### ORDER NO.

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Color</th>
<th>Wire Gauge</th>
<th>Insulation Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>34083-0001</td>
<td>Green</td>
<td>14 AWG</td>
<td>1.60 to 2.10mm (.062 to .083&quot;)</td>
</tr>
<tr>
<td>34083-0002</td>
<td>Pink</td>
<td>18 to 20 AWG</td>
<td>1.19 to 1.70mm (.047 to .067&quot;)</td>
</tr>
<tr>
<td>34083-0003</td>
<td>Yellow</td>
<td>22 AWG</td>
<td>2.18 to 2.70mm (.086 to .106&quot;)</td>
</tr>
</tbody>
</table>

For 14 AWG wire cable seals, contact Molex.
**FEATURES AND SPECIFICATIONS**

**Features and Benefits**
- Compact 1.50mm (.059”) terminal connector
- Meets USCAR footprints
- Uses cable sealed terminals
- Available with or without CPA
- Polarization options available

**Reference Information**
Packaging: Bag
Mates With: 34091
Use With: 34081 and 34083 MX150 terminals
Designed In: Millimeters

**Electrical**
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

**Order No.** | **Polarity** | **Color** | **Clipslot**
--- | --- | --- | ---
34062-0021 | A | Black | No
34062-0022 | B | Light Gray | No
34062-0023 | C | Black | Yes
34062-0024 | D | Black | No
34062-0031 | A | Light Gray | Yes
34062-0032 | B | Light Gray | Yes
34062-0033 | C | Black | No
34062-0034 | D | Black | No

**1.50mm MX150™ (060) 1-by-2 Cable Sealed Receptacle**

**34062 Female**

- **Order No.** | **Polarity** | **Color** | **Clipslot**
--- | --- | --- | ---
34062-0021 | A | Black | No
34062-0022 | B | Light Gray | No
34062-0023 | C | Black | Yes
34062-0024 | D | Black | No
34062-0031 | A | Light Gray | Yes
34062-0032 | B | Light Gray | Yes
34062-0033 | C | Black | No
34062-0034 | D | Black | No

**Features and Benefits**
- Compact 1.50mm (.059”) terminal connector
- Meets USCAR footprints
- Uses cable sealed terminals
- Available with or without CPA
- Optional Clip slot

**Reference Information**
Packaging: Bag
Mates With: 34250
Use With: 34080 MX150 terminals
Designed In: Millimeters

**Electrical**
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

**Order No.** | **Polarity** | **Color** | **Clipslot**
--- | --- | --- | ---
34475-0002 | B | Light Gray | No
34475-0001 | C | Black | No
34475-0004 | B | Light Gray | Yes
34475-0003 | C | Black | Yes

**1.50mm MX150™ (060) 1-by-2 Cable Sealed Connector**

**34675 Male**

- **Order No.** | **Polarity** | **Color** | **Clipslot**
--- | --- | --- | ---
34475-0002 | B | Light Gray | No
34475-0001 | C | Black | No
34475-0004 | B | Light Gray | Yes
34475-0003 | C | Black | Yes
FEATURES AND SPECIFICATIONS

Features and Benefits
- Compact 1.50mm (.059") terminal connector
- Meets USCAR footprints
- Uses cable sealed terminals
- Available with or without CPA
- Polarization options available

Reference Information
Packaging: Bag
Mates With: Direct Connect only
Use With: 34081 and 34083 MX150 terminals
Designed In: Millimeters

Electrical
Voltage: 250V
Current: 22.0A
Contact Resistance: 10 milliohms max.
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 20 Megohms min.

Mechanical
Contact Insertion Force: Less than 15N
Contact Retention to Housing: 100N min.
Wire Pull-Out Force: 90N min.
Mating Force: Less than 45N
Unmating Force: Less than 45N
Normal Force: Terminal dependent

Physical
Housing: PBT + 10% glass filled, UL 94-HB
Contact: Copper Alloy
Contact Plating: Tin, Silver or Gold
Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
Insulation Diameter: 2.70 to 1.50mm (.106 to .059")
Operating Temperature: -40 to +125°C
Pitch: 5.00mm (.197")

<table>
<thead>
<tr>
<th>Order No.</th>
<th>Polarity</th>
<th>Color</th>
<th>CPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>34062-0001</td>
<td>A</td>
<td>Black</td>
<td>No</td>
</tr>
<tr>
<td>34062-0002</td>
<td>B</td>
<td>Light Gray</td>
<td>No</td>
</tr>
<tr>
<td>34062-0003</td>
<td>C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34062-0004</td>
<td>D</td>
<td>Black</td>
<td>No</td>
</tr>
<tr>
<td>34062-0005</td>
<td>A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>34062-0006</td>
<td>B</td>
<td>Light Gray</td>
<td>Yes</td>
</tr>
<tr>
<td>34062-0007</td>
<td>C</td>
<td>Black</td>
<td>No</td>
</tr>
<tr>
<td>34062-0008</td>
<td>D</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*This connector is intended for “Direct Connect” applications only
### Features and Benefits
- Compact 1.50mm (.059") terminal connector
- Meets USCAR footprints
- Uses cable sealed terminals
- Available with or without CPA
- Polarization options available

### Reference Information
- **Packaging:** Bag
- **Mates With:** 34091
- **Use With:** 34080 MX150 terminals
- **Designed In:** Millimeters

### Electrical
- **Voltage:** 250V
- **Current:** 22.0A
- **Contact Resistance:** 10 milliohms max.
- **Dielectric Withstanding Voltage:** 500V DC
- **Insulation Resistance:** 20 Megohms min.

### Mechanical
- **Contact Insertion Force:** Less than 15N
- **Contact Retention to Housing:** 100N min.
- **Wire Pull-Out Force:** 90N min.
- **Mating Force:** Less than 45N
- **Unmating Force:** Less than 45N
- **Normal Force:** Terminal dependent

### Physical
- **Housing:** PBT + 10% glass filled, UL 94-HB
- **Contact:** Copper Alloy
- **Contact Plating:** Tin
- **Wire Gauge:** 2.00 to 0.50mm² (14 to 22 AWG)
- **Insulation Diameter:** 2.49 to 1.50mm (.098 to .059")
- **Operating Temperature:** 40 to +125°C
- **Pitch:** 4.50mm (.177")

### Order Information
<table>
<thead>
<tr>
<th>Order No.</th>
<th>Polarity</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>34091-0003</td>
<td>C</td>
<td>Brown</td>
</tr>
<tr>
<td>34091-0004</td>
<td>D</td>
<td>Green</td>
</tr>
</tbody>
</table>

See sales drawing on molex.com for specific knockout requests.

---

### Features and Benefits
- Compact 1.50mm (.059") terminal connector
- Meets USCAR footprints
- Uses cable sealed terminals
- Available with or without CPA
- Polarization options available

### Reference Information
- **Packaging:** Bag
- **Mates With:** 34250
- **Use With:** 34081 and 34083 MX150 terminals
- **Designed In:** Millimeters

### Electrical
- **Voltage:** 250V
- **Current:** 22.0A
- **Contact Resistance:** 10 milliohms max.
- **Dielectric Withstanding Voltage:** 500V DC
- **Insulation Resistance:** 20 Megohms min.

### Mechanical
- **Contact Insertion Force:** Less than 15N
- **Contact Retention to Housing:** 100N min.
- **Wire Pull-Out Force:** 90N min.
- **Mating Force:** Less than 45N
- **Unmating Force:** Less than 45N
- **Normal Force:** Terminal dependent

### Physical
- **Housing:** PBT + 10% glass filled, UL 94-HB
- **Contact:** Copper Alloy
- **Contact Plating:** Tin, Silver or Gold
- **Wire Gauge:** 2.00 to 0.50mm² (14 to 22 AWG)
- **Insulation Diameter:** 2.49 to 1.50mm (.098 to .059")
- **Operating Temperature:** 40 to +125°C
- **Pitch:** 4.50mm (.177")

### Order Information
<table>
<thead>
<tr>
<th>Order No.</th>
<th>Polarity</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>34250-0033</td>
<td>A</td>
<td>Black</td>
</tr>
<tr>
<td>34250-0034</td>
<td>B</td>
<td>Gray</td>
</tr>
<tr>
<td>34250-0035</td>
<td>C</td>
<td>Brown</td>
</tr>
<tr>
<td>34250-0036</td>
<td>D</td>
<td>Green</td>
</tr>
<tr>
<td>34250-0049</td>
<td>A</td>
<td>Black</td>
</tr>
<tr>
<td>34250-0050</td>
<td>B</td>
<td>Gray</td>
</tr>
<tr>
<td>34250-0051</td>
<td>C</td>
<td>Brown</td>
</tr>
<tr>
<td>34250-0052</td>
<td>D</td>
<td>Green</td>
</tr>
</tbody>
</table>

See sales drawing on molex.com for specific knockout requests.
**Features and Benefits**
- Compact 1.50mm (.059") terminal connector
- Meets USCAR footprints
- Uses cable sealed terminals
- Available with or without CPA
- Polarization options available
- Single and dual key options

**Reference Information**
- Packaging: Bag
- Mates With: Direct Connect Only
- Use With: 34081 and 34083 MX150 terminals
- Designed In: Millimeters

**Electrical**
- Voltage: 250V
- Current: 22.0A
- Contact Resistance: 10 milliohms max.
- Dielectric Withstanding Voltage: 500V DC
- Insulation Resistance: 20 Megohms min.

**Mechanical**
- Contact Insertion Force: Less than 15N
- Contact Retention to Housing: 100N min.
- Wire Pull-Out Force: 90N min.
- Mating Force: Less than 45N
- Unmating Force: Less than 45N
- Normal Force: Terminal dependent

**Physical**
- Housing: PBT + 10% glass filled, UL 94-HB
- Contact: Copper Alloy
- Contact Plating: Tin, Gold or Silver
- Wire Gauge: 2.00 to 0.50mm² (14 to 22 AWG)
- Insulation Diameter: 2.49 to 1.50mm (.098 to .059")
- Operating Temperature: -40 to +125°C
- Pitch: 4.50mm (.177")

---

**Order No.** | **Polarity** | **Color** | **CPA**
--- | --- | --- | ---
34250-0001 | A | Black | Yes
34250-0002 | B | Gray | No
34250-0003 | C | Brown | No
34250-0004 | D | Green | No
34250-0017 | A | Black | Yes
34250-0018 | B | Grey | No
34250-0019 | C | Brown | No
34250-0020 | D | Green | No

*Male Dual Key 1-by-3 connector currently not tooled. Contact Molex for more information*
Seating the TPA Receptacle Side

With the receptacle terminals fully installed, the TPA can be seated into its final lock position by applying an even force to both ends until it comes to a stop with an audible “click”. TPA movement distance from pre-lock to final lock is 5.00mm (.197”)
- The TPA should never be fully removed from the connector housing

TPA Servicing Receptacle Side

- Step 1: Insert a small screwdriver (max. width of 3.00mm (.118“)) into the designated pry point
- Step 2: Using the housing as a pivot point, gently pry out the TPA until it reaches pre-lock position (5.00mm (.197”) travel)
  - The TPA should never be fully removed from the connector housing. Excessive force can damage the TPA

Seating the TPA Blade Side

A modified process can be used for the Blade terminal. Using a pair on needle nose pliers, apply even pressure to the TPA. If the TPA resists, it may be detecting a partially installed terminal. Pull the TPA back into its pre-lock position and make sure all terminals are fully installed. Upon completion, the TPA can be seated. TPA movement distance from pre-lock to final lock is 5.00mm (.197”)
- Step 1: Insert a small pair of needle nose pliers to the designated grab point
- Step 2: Pull back 5.00mm (.198“), gently, until the TPA reaches pre-lock position
- The TPA should never be fully removed from the connector
**Terminal Installation**

- With TPA still in pre-lock position, orient terminal to rear of connector. Grip the wire no less than 30.00mm (1.181") from the terminal insulation crimp align the orientation feature and insert through appropriate circuit opening. If resistance is encountered, retract the terminal and adjust the angle of insertion. Continue inserting the terminal until it stops and locks up on the lock finger with an audible click.

**Terminal Removal**

- Once the Lock finger is disengaged, gently pull on the wire to release the terminal. If the terminal resists, the service tool may not be fully engaged. Push the service tool straight into the service opening to ensure that it has fully disengaged the locking finger.
  - Do not insert the service tool into the terminal opening.
  - Do not use excessive force, excessive force can damage the lock finger.
  - Do not insert the service tool at an angle, this may cause damage to the terminal.
  - Do not apply any lateral force, this may damage the terminal or lock finger.

- Using the 1.50mm (.059") service tool #63813-1500, insert the tip into the terminal service hole adjacent to the terminal to be serviced. Push straight down gently and apply pressure to release-locking finger. This motion will release the locking finger, “picking” is not required. Cavity plugs are removed in the same manner.
  - Do not apply any lateral force, this may damage the tool, or the locking finger.
  - Do not use excessive force, excessive force can damage the lock finger.
  - Do not insert the service tool at an angle, this may cause damage to the terminal.

Please note that the full MX150 Serviceability Manual can be viewed on [www.molex.com/ind/mx150.html](http://www.molex.com/ind/mx150.html)
MX150™ Male Blade Terminals

Standard Terminal
(Traditional Shape)

2.45

0.80

Shorting-Bar Terminal
(Doghouse Shape)

2.45

0.80

0.64

MX150 Female Receptacle Terminals

Unsealed Applications

2.55

3.63

2.80

0.80

Sealed Applications

2.55

3.33

2.80

0.80

Terminal Payoff Directions

Direction B
Right Payoff with Paper Interleaf (Right to Left)

Direction D
Left Payoff with Paper Interleaf (Left to Right)

Interleaf Paper

Use with Molex Hand Tools

Interleaf Paper

Use with Molex Hand Tools and Molex Applicators
FEATURES AND SPECIFICATIONS

Application Tooling

Dimensions:
- Height: 152.00mm (5.984")
- Width: 132.00mm (5.197")
- Depth: 101.00mm (3.976")

Weight:
- Gross: 5.4kg (12 lbs.)
- Unpacked: 4.1kg (9 lbs.)

Mechanics:
- Stroke: 28.50 and 41.30mm (1.122 and 1.626")
- Shut Height: 135.80mm (5.346")

Processing Capability: 2500 terminations per hour, depending on operator’s skill and application.

ORDERING INFORMATION

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<th>MOLEX PART# (LEFT PAYSOFF) D Wind</th>
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<table>
<thead>
<tr>
<th>MOLEX PART# (RIGHT PAYOFF)</th>
<th>MOLEX PART# (LEFT PAYOFF)</th>
<th>PLATING</th>
<th>Wire Gauge</th>
<th>Hand Crimp Tool</th>
<th>Applicator (D Wind Only)</th>
<th>Extraction Tool</th>
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<tbody>
<tr>
<td><strong>MX150 Female Cable Seal</strong></td>
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<td>34083-3001</td>
<td>Tin</td>
<td>14 to 16 AWG</td>
<td>63819-9300</td>
<td>63895-1600</td>
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<td>34083-3002</td>
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<td>18 to 20 AWG</td>
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<td>22 AWG</td>
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<td>34081-3001</td>
<td>Gold</td>
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