



## 5.00mm (.197") Pitch MX150™ Cable-Sealed 1-by-2 Connection System

**34675** Male Connectors  
**34062** Female Receptacles

*MX150 cable-sealed, 1-by-2 connectors are the latest addition to the high-performance MX150 connector system, providing a valuable space-saving solution for small-circuit applications*

Molex's MX150 cable-sealed, 1-by-2 connection system was designed to meet the need for a rugged, environmentally sealed connector system supporting both low-level signal as well as power applications up to 22.0A for small circuit size applications where space is a premium.

The innovative cable-sealed connector family is based on the 1.50mm (.059") pitch ISO blade-type terminal system. The cable-seal design offers increased sealing reliability for a large range of SAE wire gauges (14 to 22) as well metric size wires, while offering low terminal-to-housing insertion forces, and high

terminal-to-housing retention forces in excess of USCAR-2 requirements. The cost-effective connector design features all-in-one plug and receptacle housings with a pre-assembled interfacial seal and terminal position assurance (TPA).

Optional connector position assurance (CPA) and clip slot features are offered to increase connector-to-connector and connector-to-vehicle retention during use. The MX150 cable-sealed connection system complements Molex's extensive MX150 product line. For additional information about this product visit: [www.molex.com/ind/mx150.html](http://www.molex.com/ind/mx150.html).

### Features and Benefits

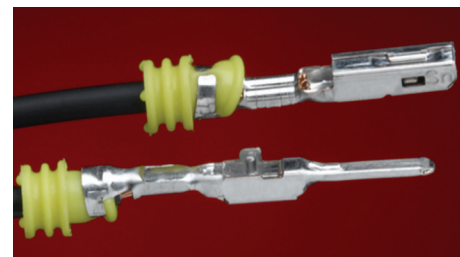
- Compact 1.50mm (.059") terminal connector is capable of up to 22.0A continuous current
- Meets USCAR footprint: 150-S-002-1-Z01 to ensure mating with USCAR connector interfaces
- Glass-filled thermoplastic housing and pre-loaded Terminal Position Assurance (TPA) ensures crimped terminal leads are properly locked into the connector (TPA will not seat and the connector system will not latch if the terminal is not locked properly into position) and meets up to Temperature Class 3 performance
- Integral locking latch with secondary, pre-loaded connector position assurance (CPA) option ensures the connector system is properly latched (CPA will not move to final locking position if the connector is not latched)
- Optional clip slot aids in vehicle routing by offering an optional orientation clip attachment
- Audible and tactile clicks on insertion, extraction and mating feedback facilitates reliable mating, and terminal loading and removal



1-by-2 Cable-Sealed Connection System



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Cable-Sealed Male and Female Terminals

### SPECIFICATIONS

#### Reference Information

Packaging:

Housings — Bulk Pack

Terminals — Reel

Mates With:

Series 34675 male connector to Series 34062 female receptacle

Use With:

Terminals: 34080 Male / 34083 Female

Designed in: Millimeters

#### Electrical

Voltage (max.): 500V

Current (max.): 22.0A

Contact Resistance: 10 milliohms max.

Dielectric Withstanding Voltage: 1500V AC

Isolation Resistance: 20 Megohms min.

#### Mechanical / Electrical / Sealing

Mating Force: Less than 45N (10.1 lb)

Unmating Force: Less than 45N (10.1 lb)

Connector Retention (Primary latch): 110N (24.7 lb) min.

Contact Retention to Housing: 90N (20.2 lb) min.

Contact Insertion Force Into Housing: 30N (6.7 lb) max.

Connector Audible Feedback: 7dB over ambient

Polarization Feature Effectiveness: 220N min.

FCLT (Class 3): 20 Milliohms max.

Durability (10 Cycles): 10 Milliohms max.

Thermal Shock (Class 3, 110cycles): 10 Milliohms max.

Sealing: (USCAR-2 Rev 4)

Pressure/Vacuum Immersion:

28kPa (4psi) 15 sec min.

Isolation resistance: 20 Megohms @ 500V DC min.

#### Physical

Housing: Nylon 6, 30% glass-filled

TPA: PBT, 30% glass-filled

Contact: C19025 Copper (Cu) Alloy

Plating:

Contact Area — Tin (Sn)

Underplating — Nickel (Si)

Operating Temperature: -40 to +125 °C

## APPLICATIONS



## 5.00mm (.197") Pitch MX150™ Cable-Sealed 1-by-2 Connection System

- Automotive Vehicles
- Commercial Vehicles
- Recreational Vehicles
- Construction Equipment
- Marine Equipment

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**34062** Female Receptacles



## ORDERING INFORMATION

### Connector

| Order No.  | Component  | Gender | Housing Features         | Comment                        | Plant No. for Samples |
|------------|------------|--------|--------------------------|--------------------------------|-----------------------|
| 34675-0002 | Connector  | Male   | TPA                      | Polarization B, No Clip Slot   | 3109                  |
| 34675-0003 | Connector  | Male   | TPA                      | Polarization C, With Clip Slot | 3109                  |
| 34062-0022 | Receptacle | Female | TPA and Interfacial Seal | Polarization B                 | 3109                  |
| 34062-0023 | Receptacle | Female | TPA and Interfacial Seal | Polarization C                 | 3109                  |

### Terminal

| Order No.  | Gender | Plating | Wire Size (AWG) | Plant No. for Samples |
|------------|--------|---------|-----------------|-----------------------|
| 34080-0002 | Male   | Tin     | 18 to 20        | 3109                  |
| 34083-2002 | Female | Tin     | 18 to 20        | 3109                  |

[www.molex.com/ind/mx150.html](http://www.molex.com/ind/mx150.html)

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