

# Off-the-Shelf MX150 Cable Assemblies

**molex**

Off-the-Shelf MX150 Cable Assemblies deliver a 22.0A current rating and offer a variety of cable lengths for automotive and commercial vehicle applications

## Features and Advantages

### Mat seal technology for MX150 (1.50mm) terminals

Eliminates the need for individual cable seals, which affords reduced package size and reduced cost

### 1-piece 3.50mm-pitch housing

Eliminates unnecessary and costly assembly operations; offers a compact connector

### Preassembled terminal position assurance (TPA) housing

Ensures crimped terminal leads are properly locked into connector

### Grommet cap

Protects the mat seal and assures proper alignment of the terminals

### Flashover options (custom void patterns) available

Provides design flexibility

### 4 polarization and color options

Facilitates quick visual installation

### USCAR interface

Has a released and approved interface for major North America OEMs

### Connector position assurance (CPA) option available

Assures connectors have been fully mated and prevents accidental disconnection

### Temperature class 4 (-40 to +125°C) and 22.0A current rating

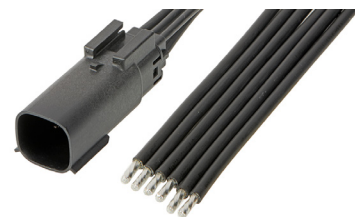
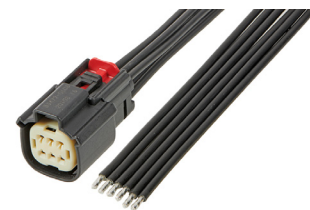
Delivers superior performance

### V0 versions available (UL1977 certified)

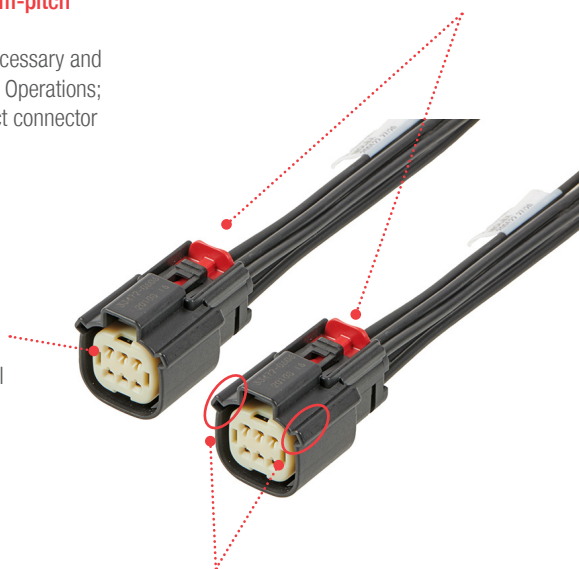
Meets stringent safety requirements

### Conforms to USCAR-2/USCAR-21/GMW3191

Is for use in on-engine, high-vibration, under-hood and under-chassis environments at temperature class 4



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## Markets and Applications

### Automotive and Commercial Vehicles

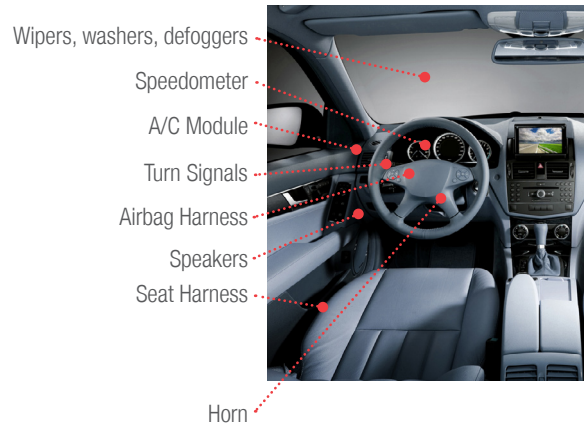
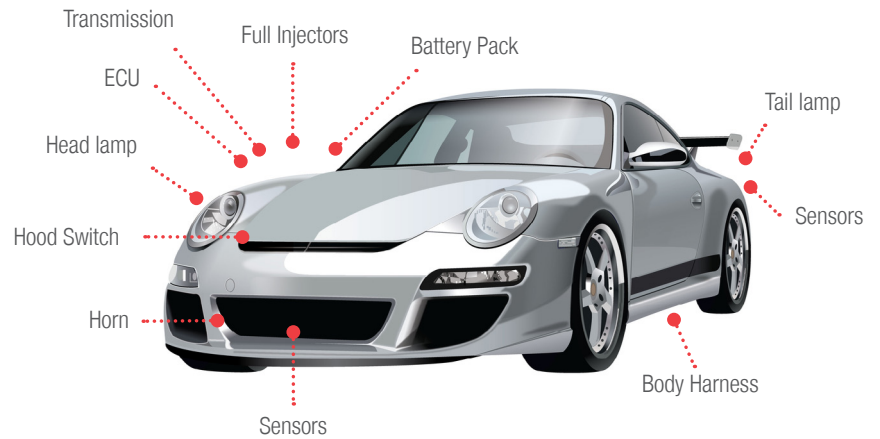
- Transmissions
- Head/tail lamps
- Body harnesses
- Wipers, washers, defoggers
- Speedometers
- A/C modules
- Turn signals
- Airbag harnesses
- Speakers
- Door connectors
- Brake modules
- Horns
- Marine equipment

### Consumer/Home Appliances

- White goods
- LED lightings

### Industrial

- Automation equipment
- Process control equipment
- Construction equipment



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## Specifications

### REFERENCE INFORMATION

Packaging: Bulk (connectors); reels (terminals)  
UL File No.: N/A  
CSA File No.: N/A  
Use With: 14 AWG  
Insulation Diameter: 2.5mm  
Designed In: Millimeters  
RoHS: Yes  
Halogen-Free: No  
Glow Wire Compliant: No  
IP Rating: IP67

### ELECTRICAL

Voltage (max.): 14V DC  
Current (max.): Up to 22.0A  
Contact Resistance (max.): 10 milliohms  
Dielectric Withstanding Voltage: 1000V AC (unmated connectors for 1 minute between adjacent terminals and between terminals to ground)  
Insulation Resistance (min.): 20 Megohms

### MECHANICAL

Terminal Insertion Force (max): 30N  
Terminal Retention to Housing (min): 90N  
Mating Force (max.): 75N  
Unmating Force (min.): 110N  
Durability (max.): 25 cycles

### PHYSICAL

Housing: SPS/nylon  
Contact: Copper Alloy  
Plating:  
Contact Area – Tin  
Underplating – Tin  
Operating Temperatures: -40 to +125°C

\*Information is based on MX150 connector specifications

## Ordering Information

|        | Component                            | Circuits     | Lengths (mm)     |
|--------|--------------------------------------|--------------|------------------|
| 216280 | Off-the-Shelf MX150 Cable Assemblies | 2,3, 4 and 6 | 150, 300 and 600 |
| 216281 |                                      |              |                  |
| 216282 |                                      |              |                  |
| 216283 |                                      |              |                  |
| 216285 |                                      |              |                  |
| 216286 |                                      |              |                  |
| 216287 |                                      |              |                  |
| 216288 |                                      |              |                  |

| Custom product                | Description                                 |
|-------------------------------|---------------------------------------------|
| <a href="#">Contact Molex</a> | Off-the-Shelf MX150 Custom Cable Assemblies |

[www.molex.com/link/otscableassemblies.html](http://www.molex.com/link/otscableassemblies.html)

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