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





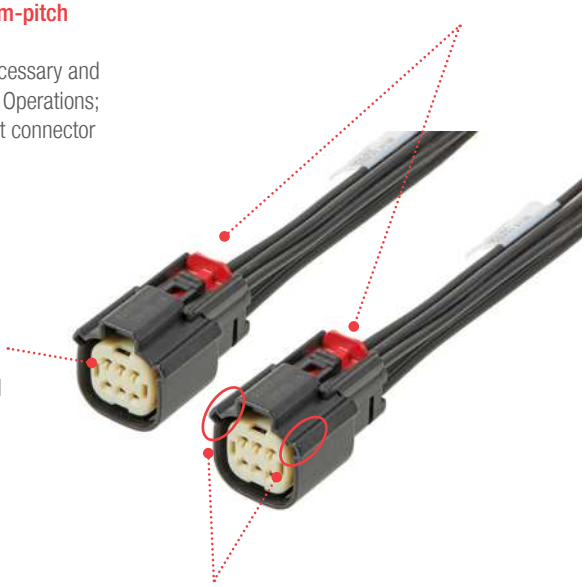
MX150 Cable Assemblies

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

Connector position assurance (CPA) option available
Assures connectors have been fully mated and prevents accidental disconnection

1-piece 3.50mm-pitch housing
Eliminates unnecessary and costly assembly Operations; offers a compact connector



Temperature class 4 (-40 to +125˚C) and 22.0A current rating
Delivers superior performance

Preassembled terminal position assurance (TPA) housing
Ensures crimped terminal leads are properly locked into connector

V0 versions available (UL1977 certified)
Meets stringent safety requirements

Grommet cap
Protects the mat seal and assures proper alignment of the terminals

4 polarization and color options
Facilitates quick visual installation



USCAR interface
Has a released and approved interface for major North America OEMs

Flashover options (custom void patterns) available
Provides design flexibility

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

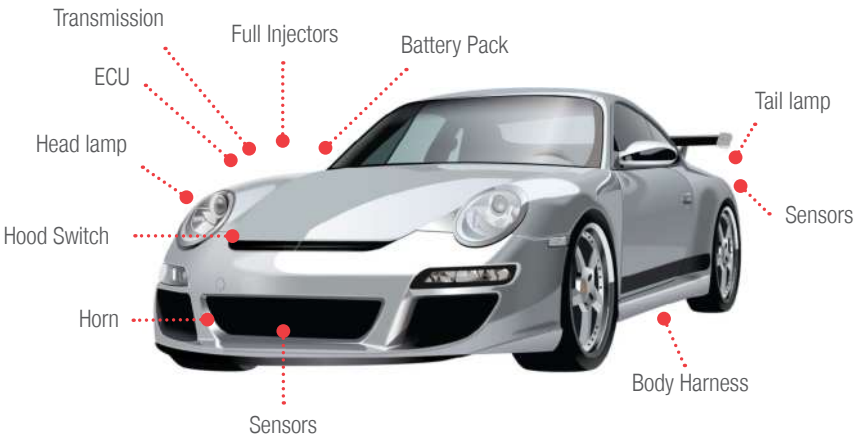
- Transmissions
- Head/tail lamps
- Body harnesses
- Wipers, washers, defoggers
- Speedometers
- A/C modules
- Turn signals
- Airbag harnesses
- Speakers
- Door connectors
- Brake modules
- Horns
- Marine equipment

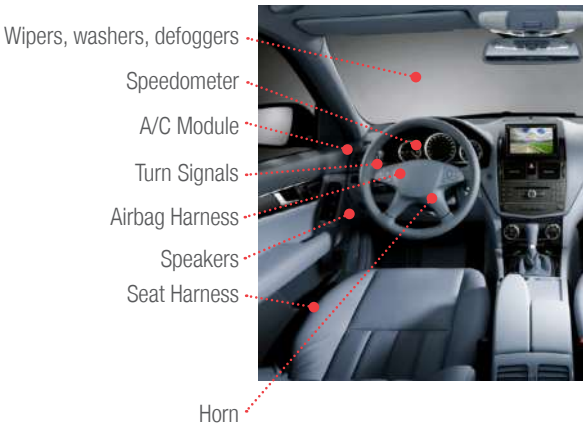
Consumer/Home Appliances

- 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

*Information is based on MX150 connector specifications

ELECTRICAL
Voltage (max.): 14V DC
Current (max.): Up to 22.0A
Contact Resistance (max.): 10 milliohms
Dielectric Withstanding Voltage: 1000V AC (unmate 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

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
Contact Molex	Off-the-Shelf MX150 Custom Cable Assemblies

www.molex.com/link/otscableassemblies.html

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