

## Datasheet for 76650-0186

### General Information

<b>Part Number:</b>	76650-0186
<b>Manufacturer:</b>	Molex / Waldom
<b>Title:</b>	MX150 Connector Kit
<b>Description:</b>	Single Row Matte Sealed Plug and Receptacle
<b>Product Family:</b>	MX150™
<b>Certificates:</b>	(Molex Parts within this kit) - EU RoHS Compliant
<b>Country of Origin:</b>	Kit assembled in U.S.A.

### Specifications

#### Design

<b>Configuration:</b>	Wire-to-Wire
<b>Pitch:</b>	3.5mm (.138")
<b>Connector Type:</b>	Plugs and Receptacles
<b>Circuit Sizes:</b>	3, 4 and 6
<b>Current Rating:</b>	22 Amps
<b>Voltage Rating:</b>	250 Volts
<b>Wire size:</b>	20-18 AWG

### Product Highlights

The MX150 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 22A, from on-engine automotive applications to off-road construction equipment applications. This design eliminates the need to purchase, handle and crimp individual wire seals to lower applied cost, is in a reduced package size for typical SAE style wire.

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Features and Benefits	Applications
<ul style="list-style-type: none"> <li>• Matte seal design</li> <li>• Audible and tactile clicks on insertion, extraction, and mating</li> <li>• Meets USCAR performance requirements</li> <li>• Smallest 1.50mm (.059") sealed connector in the market</li> <li>• Terminal retention is 2x industry standard</li> <li>• Clip slot standard on male side</li> <li>• Low insertion force</li> <li>• Strong crimps</li> <li>• Accommodates SAE and metric wires</li> <li>• Easy terminal extraction and insertion</li> <li>• Lead free</li> </ul>	<ul style="list-style-type: none"> <li>• Automotive Vehicles</li> <li>• Commercial Vehicles</li> <li>• Recreational Vehicles</li> <li>• Industrial Vehicles and Equipment</li> <li>• Construction Equipment</li> <li>• Marine Equipment</li> </ul>

**Bill of Materials for Part No. 76650-0186**

Molex Part No.	Country of Origin	Description	Quantity in Kit
33001-3004-C	USA	MX150™ Female Terminal, Gold (Au) Plating, 20-18 AWG	25
33011-0004-C	USA	MX150™ Male Terminal, Gold (Au) Plating, 20-18 AWG	25
33471-0301	China	3.5mm (.138") Pitch MX150™ Receptacle 1X3 Circuit, Black, Polarization A	2
33481-0301	China	3.5mm (.138") Pitch MX150™ Plug 1X3 Circuit, Black, Polarization A	2
33471-0401	China	3.5mm (.138") Pitch MX150™ Receptacle 1X4 Circuit, Black, Polarization A	2
33481-0401	China	3.5mm (.138") Pitch MX150™ Plug 1X4 Circuit, Black, Polarization A	2
33471-0601	China	3.5mm (.138") Pitch MX150™ Receptacle 1X6 Circuit, Black, Polarization A	1
33481-0601	China	3.5mm (.138") Pitch MX150™ Plug 1X6 Circuit, Black, Polarization A	1

**Recommended Molex Tool(s) for Part No. 76650-0186\***

Molex Part No.	Country of Origin	Description
63813-1500 *	USA	Manual Extraction Tool
63811-6000 *	Germany	Hand Crimp Tool, 18-22 AWG
63811-6100 *	Germany	Hand Crimp Tool, Metric 1.00 and 1.50
63811-6200 *	Germany	Hand Crimp Tool, Metric 0.05 and 0.75

\*Tool(s) not included in kit. Tool(s) ordered separately.