

Datasheet for 76650-0186

General Information

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

Specifications

Design

Configuration:	Wire-to-Wire
Pitch:	3.5mm (.138")
Connector Type:	Plugs and Receptacles
Circuit Sizes:	3, 4 and 6
Current Rating:	22 Amps
Voltage Rating:	250 Volts
Wire size:	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"> • Matte seal design • Audible and tactile clicks on insertion, extraction, and mating • Meets USCAR performance requirements • Smallest 1.50mm (.059") sealed connector in the market • Terminal retention is 2x industry standard • Clip slot standard on male side • Low insertion force • Strong crimps • Accommodates SAE and metric wires • Easy terminal extraction and insertion • Lead free 	<ul style="list-style-type: none"> • Automotive Vehicles • Commercial Vehicles • Recreational Vehicles • Industrial Vehicles and Equipment • Construction Equipment • Marine Equipment

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.

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