



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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.

Datasheet for 76650-0186

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.