

Datasheet for 76650-0189

General Information

Part Number:	76650-0189
Manufacturer:	Molex / Waldom
Title:	2.0 Thin Connector Kit
Description:	Locking Plug and Receptacle
Product Family:	N/A
Certificates:	(Molex Parts within this kit) - EU RoHS Compliant, UL and CSA
Country of Origin:	Kit assembled in U.S.A.

Specifications

Design

Configuration:	Wire-to-Wire
Pitch:	2.00mm (.079")
Connector Type:	Plugs and Receptacle
Circuit Sizes:	2, 3, 4 and 5
Current Rating:	(1-2) Amps - Dependant on Wire Gauge
Voltage:	125 Volts
Wire Size:	28-24 AWG

Product Highlights

This family has a very thin housing design, with the housings having a 2.7mm maximum thickness. The 51005 series (9.2mm) mated with the 51006 series (10.8mm) has a mated length of 14.8mm. The plug and receptacle mate with an audio click, and remain mated very strongly with locking tangs on both sides. The housings are marked at circuit one.

Features and Benefits

- Spring beam design provides high pressure and small deflection for high vibration applications
- Polarization prevents mismatching
- Operating Temperature: -40 to +105°C
- Locking tang for secure housing retention
- Very thin housing design, 2.7mm (.106")

Applications

- Office Automation: Printers, Fax machines, Scanners, Copiers
- Measuring / Analyzing Equipment, Security systems / alarms, Medical monitoring, Lab equipment
- Other applications: Vending machines, Gaming machines, Fitness equipment

Bill of Materials for Part No. 76650-0189

[For additional Molex / Waldom Design and Solution Kits please go to www.molexkits.com](http://www.molexkits.com)

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Molex Part No.	Country of Origin	Description	Quantity in Kit
50012-8100	Mexico	Male Crimp Terminal, Loose, for 2.00mm (.079") Pitch 51006 Plug	50
50013-8100	Mexico	Female Crimp Terminal, Loose, for 2.00mm (.079") Pitch 51005 Receptacle	50
51005-0200	Japan	2.00mm (.079") Pitch Wire-to-Wire Receptacle Housing, 2 Circuits	5
51005-0300	Japan	2.00mm (.079") Pitch Wire-to-Wire Receptacle Housing, 3 Circuits	5
51005-0400	Japan	2.00mm (.079") Pitch Wire-to-Wire Receptacle Housing, 4 Circuits	3
51005-0500	Japan	2.00mm (.079") Pitch Wire-to-Wire Receptacle Housing, 5 Circuits	3
51006-0200	Japan	2.00mm (.079") Pitch Wire-to-Wire Plug Housing, 2 Circuits	5
51006-0300	Japan	2.00mm (.079") Pitch Wire-to-Wire Plug Housing, 3 Circuits	5
51006-0400	Japan	2.00mm (.079") Pitch Wire-to-Wire Plug Housing, 4 Circuits	3
51006-0500	Japan	2.00mm (.079") Pitch Wire-to-Wire Plug Housing, 5 Circuits	3

Recommended Molex Tool(s) for Part No. 76650-0189*

Molex Part No.	Country of Origin	Description
63811-7800 *	Sweden	Hand Crimp Tool, UL Approved
57046-5000 *	USA	Hand Crimper - JAPAN

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