

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

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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.

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