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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.

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# Datasheet for 76650-0229

## General Information

|                           |                                     |
|---------------------------|-------------------------------------|
| <b>Kit Part Number:</b>   | 76650-0229                          |
| <b>Connector Type:</b>    | Wire-to-Wire                        |
| <b>Solution:</b>          | Free Hanging                        |
| <b>Molex Family:</b>      | 2.00 mm, Micro-Fit 3.0™, PicoBlade™ |
| <b>Certificates:</b>      | N/A                                 |
| <b>Country of Origin:</b> | Kit assembled in U.S.A              |

## Specifications

|                          |  |
|--------------------------|--|
| <b>Circuit Size:</b>     | 2, 3, 4  |
| <b>Current Rating:</b>   | 0.8-1, 1-2A, 5A                                |
| <b>Mounting Style:</b>   | Free-Hanging                                   |
| <b>Orientation:</b>      | Plugs, Receptacles                             |
| <b>Pitch:</b>            | 1.25mm (.049"), 2.00mm (.079"), 3.00mm (.118") |
| <b>Tool Included:</b>    | No   |
| <b>Voltage Rating:</b>   | 125V, 250V                                     |
| <b>Wire Gauge (AWG):</b> | (24-20), 28-24, 32-28                          |

## Product Highlights

1.25mm (.049") pitch PicoBlade™ system is designed for high-density harness applications. PicoBlade™ provides the same 1.0 amperes of current as similar 2.00mm (.079") pitch systems, but in a more compact design. PicoBlade™ is offered in wire-to-board and wire-to-wire options. The system saves about 45% of PCB space compared to typical 2.00mm wire-to-board systems. The Micro-Fit 3.0™ is a unique interconnect system designed to meet the need for a high contact density signal or power connector and incorporates many of the features previously found on larger power connectors. These 3.00mm (.118") pitch connectors are the perfect choice when you need compact connectors that carry up to 5 amperes of current. 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.

### Features and Benefits

- Polarization prevents mismatching
- Locking tang for secure housing retention
- Two solder tabs for better connection to the PCB
- Integral pull tabs for ease in unmating
- Very thin housing design, 2.7mm (.106")
- Box-type spring contact for high normal force
- 4 points of contact for optimum reliability

### Applications

- Handheld Devices
- Computers and Workstations
- Car Radios
- Process controls
- Fitness equipment

- Medical monitoring, Lab equipment
- Gaming and Vending
- Set top boxes
- Alarm systems
- Patient monitors
- Office Equipment
- Power Supplies
- Fan Tray Assemblies
- DVD players
- Cash dispensers

**Bill of Materials**

| <b>Molex Part No.</b> | <b>Description</b>   | <b>Quantity</b> |
|-----------------------|--|-----------------|
| 51021-0400            | 1.25mm (.049") Pitch PicoBlade™ Receptacle, 4 Circuits                   | 5               |
| 51021-0300            | 1.25mm (.049") Pitch PicoBlade™ Receptacle, 3 Circuits                   | 5               |
| 51005-0300            | 2.00mm (.079") Pitch Wire-to-Wire Receptacle Housing, 3 Circuits         | 5               |
| 51005-0200            | 2.00mm (.079") Pitch Wire-to-Wire Receptacle Housing, 2 Circuits         | 5               |
| 51021-0200            | 1.25mm (.049") Pitch PicoBlade™ Receptacle, 2 Circuits                   | 5               |
| 51047-0400            | 1.25mm (.049") Pitch PicoBlade™ Plug, 4 Circuits                         | 5               |
| 51047-0300            | 1.25mm (.049") Pitch PicoBlade™ Plug, 3 Circuits                         | 5               |
| 50013-8100            | Female Crimp Terminal, Loose, for 2.00mm (.079") Pitch, 51005 Receptacle | 50              |
| 50012-8100            | Male Crimp Terminal, Loose, for 2.00mm (.079") Pitch, 51006 Plug         | 50              |
| 50058-8000            | PicoBlade™ Crimp Terminal, Female, 32-28 AWG                             | 50              |
| 50133-8100            | PicoBlade™ Crimp Terminal, Male, 32-28 AWG                               | 50              |
| 51047-0200            | 1.25mm (.049") Pitch PicoBlade™ Plug, 2 Circuits                         | 5               |
| 51005-0400            | 2.00mm (.079") Pitch Wire-to-Wire Receptacle Housing, 4 Circuits         | 5               |
| 51006-0200            | 2.00mm (.079") Pitch Wire-to-Wire Plug Housing, 2 Circuits               | 5               |
| 51006-0300            | 2.00mm (.079") Pitch Wire-to-Wire Plug Housing, 3 Circuits               | 5               |
| 51006-0400            | 2.00mm (.079") Pitch Wire-to-Wire Plug Housing, 4 Circuits               | 5               |
| 43030-0007            | Micro-Fit 3.0™ Crimp Terminal, Female, 24-20 AWG                         | 50              |
| 43031-0007            | Micro-Fit 3.0™ Crimp Terminal, Male, 24-20 AWG                           | 50              |
| 43645-0200            | 3.0mm (.118") Pitch Micro-Fit 3.0™ Receptacle, 2 Circuits                | 5               |
| 43645-0300            | 3.0mm (.118") Pitch Micro-Fit 3.0™ Receptacle, 3 Circuits                | 5               |
| 43645-0400            | 3.0mm (.118") Pitch Micro-Fit 3.0™ Receptacle, 4 Circuits                | 5               |
| 43640-0201            | 3.0mm (.118") Pitch Micro-Fit 3.0™ Plug, 2 Circuits                      | 5               |
| 43640-0401            | 3.0mm (.118") Pitch Micro-Fit 3.0™ Plug, 4 Circuits                      | 5               |
| 43640-0301            | 3.0mm (.118") Pitch Micro-Fit 3.0™ Plug, 3 Circuits                      | 5               |

**Recommended Molex Tool**

| <b>Molex Part No.</b> | <b>Description</b> |
|-----------------------|--------------------|
|-----------------------|--------------------|