

General Information

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| Part Number: | 76650-0125 |
| Manufacturer: | Molex / Waldom |
| Title: | PicoBlade Connector Kit |
| Description: | Friction Lock Plug and Receptacle |
| Product Family: | PicoBlade™ |
| Certificates: | (Molex Parts within this kit) - UL and CSA |
| Country of Origin: | Kit assembled in U.S.A. |

Specifications

Design

| | |
|------------------------|-----------------------|
| Configuration: | Wire-to-Wire |
| Pitch: | 1.25mm (.049") |
| Connector Type: | Plugs and Receptacles |
| Circuit Sizes: | 2, 3, 4, 6 and 10 |
| Current Rating: | 1 Amp |
| Voltage: | 125 Volts |
| Wire size: | 32-28 AWG |

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. It is a single row system, available in 2 to 15 circuits, with both surface mount and through-hole headers.

Features and Benefits

- Reliable terminal for solid electrical connection
- Friction lock for good mating retention
- Polarizing features ensures proper mating orientation
- Two solder tabs for better connection to the PCB

Applications

- Car Radios
- Process controls
- Cash dispensers
- Patient monitors
- Alarm systems
- Set top boxes
- DVD players

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

Bill of Materials for Part No. 76650-0125

| Molex Part No. | Country of Origin | Description | Quantity in Kit |
|----------------|-------------------|---|-----------------|
| 51047-0200 | Japan | 1.25mm (.049") Pitch PicoBlade™ Plug , 2 Circuits | 10 |
| 51047-0300 | Japan | 1.25mm (.049") Pitch PicoBlade™ Plug, 3 Circuits | 10 |
| 51047-0400 | Japan | 1.25mm (.049") Pitch PicoBlade™ Plug, 4 Circuits | 10 |
| 51047-0600 | Japan | 1.25mm (.049") Pitch PicoBlade™ Plug, 6 Circuits | 10 |
| 51047-1000 | Japan | 1.25mm (.049") Pitch PicoBlade™ Plug, 10 Circuits | 10 |
| 51021-0200 | Japan | 1.25mm (.049") Pitch PicoBlade™ Receptacle, 2 Circuits | 10 |
| 51021-0300 | Japan | 1.25mm (.049") Pitch PicoBlade™ Receptacle, 3 Circuits | 10 |
| 51021-0400 | Japan | 1.25mm (.049") Pitch PicoBlade™ Receptacle, 4 Circuits | 10 |
| 51021-0600 | Japan | 1.25mm (.049") Pitch PicoBlade™ Receptacle, 6 Circuits | 10 |
| 51021-1000 | Japan | 1.25mm (.049") Pitch PicoBlade™ Receptacle, 10 Circuits | 10 |
| 50058-8000-C | Japan | PicoBlade™ Crimp Terminal, Female, 32-28 AWG | 100 |
| 50133-8100-C | Japan | PicoBlade™ Crimp Terminal, Male, 32-28 AWG | 100 |

Recommended Molex Tool(s) for Part No. 76650-0125*

| Molex Part No. | Country of Origin | Description |
|----------------|-------------------|-----------------|
| 63819-0400 * | Sweden | Hand Crimp Tool |
| 11-03-0043 * | USA | Extraction Tool |

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