

## General Information

<b>Part Number:</b>	76650-0128
<b>Manufacturer:</b>	Molex / Waldom
<b>Title:</b>	PicoBlade Deluxe Connector Kit
<b>Description:</b>	Friction Lock Plug and Receptacle and SMT Header
<b>Product Family:</b>	PicoBlade™
<b>Certificates:</b>	(Molex Parts within this kit) - UL and CSA
<b>Country of Origin:</b>	Kit assembled in U.S.A.

## Specifications

### Design

**Configuration:** (Wire-to-Board) and (Wire-to-Wire)

**Pitch:** 1.25mm (.049")

**Connector Type:** Headers, Receptacles and Plugs

### Mounting

**Orientation:** Right Angle and Vertical

**Circuit Sizes:** 4, 6, 8 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. 76650-0128**

Molex Part No.	Country of Origin	Description	Quantity in Kit
51047-0400	Japan	1.25mm (.049") Pitch PicoBlade™ Plug, 4 Circuits	5
51047-0600	Japan	1.25mm (.049") Pitch PicoBlade™ Plug, 6 Circuits	5
51047-0800	Japan	1.25mm (.049") Pitch PicoBlade™ Plug, 8 Circuits	5
51047-1000	Japan	1.25mm (.049") Pitch PicoBlade™ Plug, 10 Circuits	5
51021-0400	Japan	1.25mm (.049") Pitch PicoBlade™ Receptacle, 4 Circuits	5
51021-0600	Japan	1.25mm (.049") Pitch PicoBlade™ Receptacle, 6 Circuits	5
51021-0800	Japan	1.25mm (.049") Pitch PicoBlade™ Receptacle, 8 Circuits	5
51021-1000	Japan	1.25mm (.049") Pitch PicoBlade™ Receptacle, 10 Circuits	5
53261-0471	Japan	1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Right Angle, 4 Circuits	5
53261-0671	Japan	1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Right Angle, 6 Circuits	5
53261-0871	Japan	1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Right Angle, 8 Circuits	5
53261-1071	Japan	1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Right Angle, 10 Circuits	5
53398-0471	Japan	1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Vertical, 4 Circuits	5
53398-0671	Japan	1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Vertical, 6 Circuits	5
53398-0871	Japan	1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Vertical, 8 Circuits	5
53398-1071	Japan	1.25mm (.049") Pitch PicoBlade™ Header, Surface Mount, Vertical, 10 Circuits	5
50133-8100	Japan	PicoBlade™ Crimp Terminal, Male, 32-28 AWG	100
50058-8000	Korea	PicoBlade™ Crimp Terminal, Female, 32-28 AWG	100

**Recommended Molex Tool(s) for Part No. 76650-0128\***

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.