

### General Information

**Part Number:** 76650-0118  
**Manufacturer:** Molex / Waldom  
**Title:** SEARAY Connector Kit  
**Description:** High Density Mezz Interconnect Plug and Receptacle  
**Product Family:** SEARAY\*  
**Certificates:** (Molex Parts within this kit) - EU and China RoHS Compliant, UL and CSA  
**Country of Origin:** Kit assembled in U.S.A.

### Specifications

**Design**  
**Configuration:** Board-to-Board  
**Pitch:** 1.27mm (.050") by 1.27mm (.050") Pitch  
**Connector Type:** Receptacle and Plug  
**Mounting**  
**Orientation:** Vertical  
**Circuit Sizes:** 200, 300, and 400  
**Current Rating:** 2.7 Amps  
**Voltage:** 240 Volts

### Product Highlights

The SEARAY board-to-board connector is designed for computer, networking, telecom, storage and general market applications with high pin-count devices or memory modules that are mounted on mezzanine or module PC Boards (PCBs). The design of our SEARAY has superior electrical and mechanical features that are cost competitive. The unique, Molex-patented, solder charge technology results in better process yields and a lower applied cost versus equivalent BGA connector products. Circuit sizes range from 160 through 500 positions, and mated stack heights cover 7mm (.276") to 13mm (.512").

#### Features and Benefits

- Unique patented solder attach is more cost effective and reliable than BGA
- SEARAY footprint is compatible with other 1.27mm(.050") by 1.27mm(.050") products
- Robust guidance and polarization aligns connectors to mate in correct position

#### Applications

- High and Mid-Range Computers and Servers
- Medical Scanning Equipment
- Military
- Network Routers and Switches
- Mobile Base Stations

\*SEARAY is a trademark of Samtec, Inc.

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

**Bill of Materials for Part No. 76650-0118**

Molex Part No.	Country of Origin	Description	Quantity in Kit
45970-2311	USA	1.27mm (.050") x 1.27mm (.050") Pitch SEARAY* Plug, 200 Circuits, 6.10mm (.240") Unmated Height, 10 Rows	1
45970-3211	USA	1.27mm (.050") x 1.27mm (.050") Pitch SEARAY* Plug, 300 Circuits, 5.59mm (.220") Unmated Height, 10 Rows	1
45970-4311	USA	1.27mm (.050") x 1.27mm (.050") Pitch SEARAY* Plug, 400 Circuits, 6.10mm (.240") Unmated Height, 10 Rows	1
45971-2311	USA	1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Receptacle, 200 Circuits, 6.55mm (.258") Unmated Height, 10 Rows	1
45971-3111	USA	1.27mm (.050") by 1.27mm (.050") Pitch SEARAY* Receptacle, 300 Circuits, 5.05mm (.199") Unmated Height, 10 Rows	1

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**No Recommended Molex Tool for Part No. 76650-0118**