

Datasheet for 76650-0145

General Information

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| Part Number: | 76650-0145 |
| Manufacturer: | Molex / Waldom |
| Title: | LFH Matrix 50 Connector Kit |
| Description: | High Speed I/O Right Angle Plug, Receptacle and Hardware |
| Product Family: | LFH™ Matrix 50 |
| Certificates: | (Molex Parts within this kit) - UL and CSA |
| Country of Origin: | Kit assembled in U.S.A. |

Specifications

Design

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

Pitch: 1.27mm (.050")

Connector Type: Plugs and Receptacles

Mounting

Orientation: Right Angle and Vertical

Current Rating: 1 Amp

Voltage Rating: 40 Volts

Wire size: 36-28 AWG

Product Highlights

The Low Force Helix (LFH) contact was designed for high-pin count signal applications where there is a need for reliability and performance. Designed for both cable-to-board and board-to-board applications, the system's low insertion forces make it ideal for situations where multiple single lines need to be terminated or packaged in a limited space. The patented "helix" plug pin interfaces with a split-beam receptacle contact giving a low insertion force with 2-point contact reliability. Rated at 4 Gbps.

Features and Benefits

- High density contact interface, more terminals in a smaller package
- High pin count, flexibility in many different applications
- Low mating force, aids in the mating of the final product
- Wire termination by weld or solder of terminal sticks, ease of manufacturability and reliability
- Shielded, protects signal integrity
- High cycle life 5,000 cycles

Applications

- Mainframe Computers
- Mass Storage
- Portable POS Units
- Network Interface Cards
- Routers
- Switches
- Audio, Video Editing and Storage
- Military Data Communication and Video Equipment (cots)
- Medical Devices

For additional Molex / Waldom Design and Solution Kits please go to www.molexkits.com

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Bill of Materials for Part No. 76650-0145

| Molex Part No. | Country of Origin | Description | Quantity in Kit |
|----------------|-------------------|---|-----------------|
| 70928-2001 | USA | 1.27mm (.050") Pitch LFH™ Matrix 50 Receptacle R.A. 60 Circuit | 1 |
| 70982-1003 | USA | Hex Screw (Panel Mount) Jackposts for LFH™ and TDP® | 4 |
| 70929-2000 | Mexico | 1.27mm (.050") Pitch LFH™ Matrix 50 Plug (Cable) Subassembly 60 Circuit | 1 |
| 51-24-2021 | Mexico | LFH™ Terminal Stick with Carrier, 15 Circuits | 4 |
| 71629-4000 | USA | LFH™ Matrix 50 & 75 Docking Hardware Guide Sleeve | 4 |
| 15-92-2250 | USA | 1.27mm (.050") Pitch LFH™ Matrix 50 Plug R.A. 60 Circuit | 1 |

Recommended Molex Tool(s) for Part No. 76650-0145*

| Molex Part No. | Country of Origin | Description |
|----------------|-------------------|-------------------------|
| 62200-1500 * | USA | LFH STICK LOAD TOOL |
| 62200-1100 * | USA | LFH STICK PREP TOOL KIT |

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