



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Datasheet for 76650-0145

General Information

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.