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Datasheet for 76650-0145

General Information	
Kit Part Number:	76650-0145
Connector Type:	Board-to-Board, Wire-to-Board
Solution:	High Speed I/O Connectors
Molex Family:	LFH™
Certificates:	N/A
Country of Origin:	Kit assembled in U.S.A

Specifications	
Circuit Size:	15, 60
Current Rating:	1A
Mounting Style:	PCB Through Hole
Orientation:	Plugs, Right Angle Receptacles
Pitch:	1.27mm (.050")
Speed:	4 Gbps (Gigabits Per Second)
Tool Included:	No
Voltage Rating:	40V
Wire Gauge (AWG):	36-28

Product Hightlights

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

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Bill of Materials

Molex Part No.	Description	Quantity
70928-2001	1.27mm (.050") Pitch LFH™ Matrix 50 Receptacle, Right Angle, 60 Circuits	1
70982-1003	Hex Screw (Panel Mount) Jackposts for LFH™ and TDP®	4
70929-2000	1.27mm (.050") Pitch LFH™ Matrix 50 Plug (Cable) Subassebly, 60 Circuits	1
71629-4000	LFH™ Matrix 50 and 75 Docking Hardware Guide Sleeve	4
15-92-2250	1.27mm (.050") Pitch LFH™ Matrix 50 Plug Right Angle, 60 Circuits	1
51-24-2021	LFH™ Terminal Stick with Carrier, 15 Circuits	4

Recommended Molex Tool

Molex Part No.	Description
62200-1500 (not included in kit)	Click for more info
62200-1100 (not included in kit)	Click for more info