

molex® LFH™ Matrix 50 and 75 Shielded I/O Connector Systems

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 signal lines need to be terminated or packaged in a limited space.

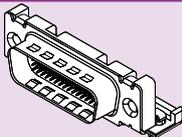
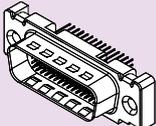
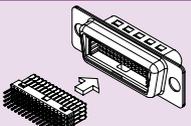
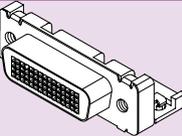
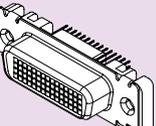
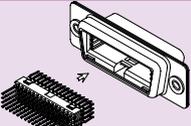
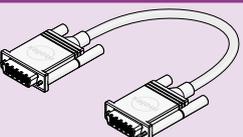
The patented "helix" plug pin interfaces with a split-beam receptacle contact giving a low insertion force with two-point contact reliability.

Circuit sizes range from 60 to 200 circuits in the Matrix 50 system and 96 and 130 circuits in the Matrix 75 system. Both systems feature I/O shielding and support vertical and right angle board mounting.

- Matrix 50 contact layout is four rows on 1.27 by 1.27mm (.050 by .050") spacing
- Matrix 75 layout is five contact rows on 1.90 by 1.90mm (.075 by .075" spacing)

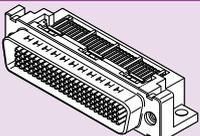
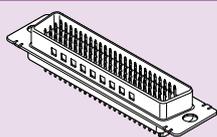
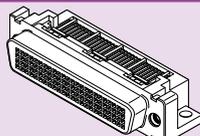
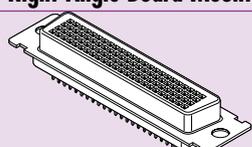
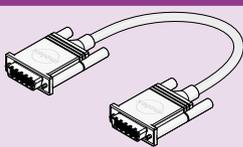
- Redundant contact points for long-term reliability
- High cycle life via controlled plating and contact surfaces
- Good electrical performance for high-speed applications
- Cable assemblies available directly through Molex approved assemblers
- Application tooling available for terminating and assembling cable mount components

LFH Matrix 50, 1.27mm (.050") Pitch

Circuits	Series No.			
	60	80	160	200
Plug				
 Right Angle Board Mount	70929	—	71624	—
 Vertical Board Mount	70929	71475	71624	—
 Cable Mount Subassembly	70929	71720	71624	71719
Terminal Sticks	70984	71477	70984	71715
Receptacle				
 Right Angle Board Mount	70928	—	71626	71718
 Vertical Board Mount	70928	71478	71626	—
 Cable Mount Subassembly	71691	—	—	—
Terminal Sticks	70985	—	—	—
Cable Assembly				
 LFH Cable Plug to LFH Cable Plug	79980			



LFH Matrix 75, 1.90mm (.075") Pitch

Circuits	Series No.	
	96	130
Plug		
 Right Angle Board Mount	70665	71995
 Vertical Board Mount	70665	71995
 Cable Mount Subassembly	70665	71995
Terminal Sticks	71989	71989
Receptacle		
 Right Angle Board Mount	70660	71990
 Vertical	70660	71990
 Cable Mount Subassembly	70660	71990
Terminal Sticks	71988	71988
Cable Assembly		
 LFH Cable Plug to LFH Cable Plug	79981	

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