



0.50mm (.020") Pitch LaneLink™ 4x Latch Receptacle

91803 Jackscrew Receptacle

91804 Latch Receptacle

FEATURES AND BENEFITS

5GHZ Bi-directional 4 Lane I/O Connector System with Superior Mechanical Reliability

The Molex 4 Lane I/O connectors incorporate an industry compatible mating interface compliant with InfiniBand™ requirements. This I/O system has also been adopted by several other standards or MSA groups in addition to InfiniBand™, noted below. LaneLink™ is a 100ohm cable to board I/O system optimized for differential signaling at 2.5Gbps per pair. The Molex design features superior mechanical reliability and an extensive range of options including latching and jackscrews versions.

A new feature to both 4x options is the addition of a landing area for automated Pick and Place.



Features	Benefits
• Die cast frame with unitary latch posts and screw attach to PCB	• Provides the best available strain relief of cable to socket and isolates cable loads from SMT tails
• Optional top mount attach of die cast frame to chassis	• Additional strain relief
• Dedicated pick and place landing area	• Allows use of standard pick and place nozzles
• Solder post options (2 or 4 posts)	• Replaces need for screw down
• Various place thickness accommodated	
• High level of pin to PCB compliancy	• Helps coplanarity
• Extended crush PCB alignment posts	• Eases alignment of connector to board
• Jackscrew option complies with SFF-8470	

SPECIFICATIONS

Specifications

Reference Information

Packaging: Tray
Mates With: 91525 to 91635;
91629 to 91659
Designed In: Millimeters

Electrical

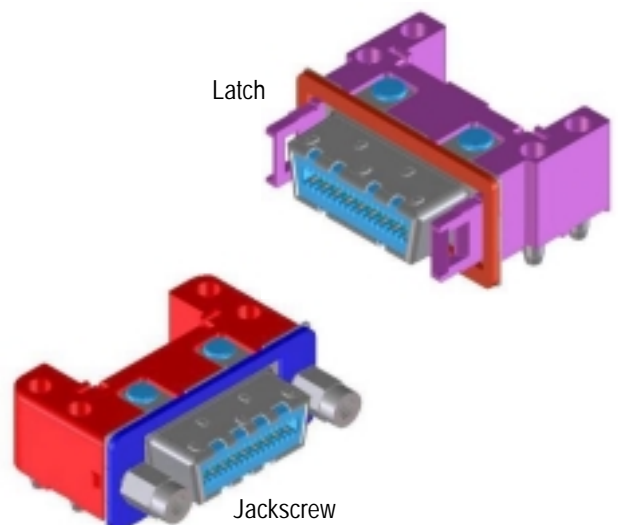
Voltage: 30V AC max
Current: 0.5A max
Contact Resistance: 80 mOhms
Dielectric Withstanding Voltage:
300V AC
Insulation Resistance: 1000
MOhms

Mechanical

Contact Retention to Housing: 5N
(1.12 lb) min
Mating Force: 55.5N (12.33 lb) max
for 4x; 73N (16.37 lb) max for 12x
Unmating Force: 7.0N (1.57 lb) min
for 4x; 10.5N (2.35 lb) min for 12x;
49.0N (10.99 lb) max for 4x; 59.0N
(13.23 lb) min for 12x
Durability: 250 cycles

Physical

Housing: LCP, UL 94V-0
Contact: Phosphor Bronze
Plating: Contact Area – Gold over
Palladium Nickel
Solder Tail Area – Tin/Lead
Underplating -- Nickel
PCB Thickness: 1.60mm (.063"),
2.40mm (.094"), 4.00mm (.157")
Operating Temperature: -20 to 60
degrees Celsius



Latch

Jackscrew

APPLICATIONS



0.50mm (.020") Pitch LaneLink™ 4x Latch Receptacle

**91803 Jackscrew
Receptacle**

91804 Latch Receptacle

Markets and Applications

- Telecommunication and Data:
 - SAN (Storage Area Network) switches
 - RAID devices
- Industry Standard organisations:
 - 4x and 12x InfiniBand
 - 10 Gigabit Ethernet
 - 10 Gigabit Fiber Channel
 - 4x Serial ATA (Jackscrew)
 - 4x Serial Attach SCSI (Jackscrew)
- Specific Applications include:
 - Servers
 - Switches
 - Computers
 - Storage Devices
 - Internetworking Equipment



Server



Switch

ORDERING INFORMATION

Order No. Tray Packaging	Order No. Tape & Reel	Version	Rear Mounts	Solder Posts	Panel Mount
91803-0410	91803-8410	4x Jackscrew	No	No	No
91803-0412	91803-8412	4x Jackscrew	Yes	No	No
91803-0414	91803-8414	4x Jackscrew	No	2	No
91803-0416	91803-8416	4x Jackscrew	Yes	4	No
91804-0410	91804-8410	4x Latch	No	No	No
91804-0412	91804-8412	4x Latch	Yes	No	No
91804-0414	91804-8414	4x Latch	Yes	No	Yes
91804-0416	91804-8416	4x Latch	No	No	Yes
91804-0450	91804-8450	4x Latch	No	2	No
91804-0452	91804-8452	4x Latch	Yes	4	No
91804-0454	91804-8454	4x Latch	Yes	4	Yes
91804-0456	91804-8456	4x Latch	No	2	Yes



Bringing People & Technology Together, WorldwideSM

Americas Headquarters
2222 Wellington Ct.
Lisle, Illinois 60532 USA
1-800-78MOLEX
amerinfo@molex.com

**Far East North
Headquarters**
Yamato, Kanagawa,
Japan
81-462-65-2324
feninfo@molex.com

**Far East South
Headquarters**
Jurong, Singapore
65-6-268-6868
fesinfo@molex.com

European Headquarters
Munich, Germany
49-89-413092-0
eurinfo@molex.com

Corporate Headquarters
2222 Wellington Ct.
Lisle, Illinois 60532 USA
630-969-4550

Visit our Web site at <http://www.molex.com>