



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

91803 Jackscrew  
Receptacle

91804 Latch Receptacle

## FEATURES AND BENEFITS

[查询"91804-8456"供应商](#)

### 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

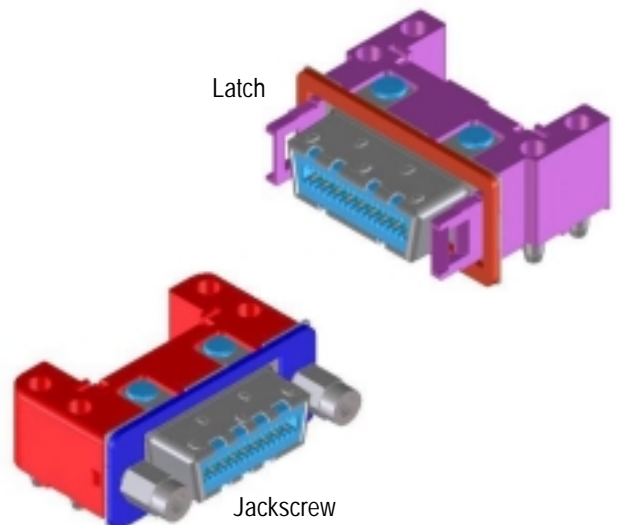
Voltage: 30V AC max  
Current: 0.5A max  
Contact Resistance: 80 mOhms  
Dielectric Withstanding Voltage:  
300V AC  
Insulation Resistance: 1000  
MOhms

#### 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

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### 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



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

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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



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