



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

91803 Jackscrew
Receptacle

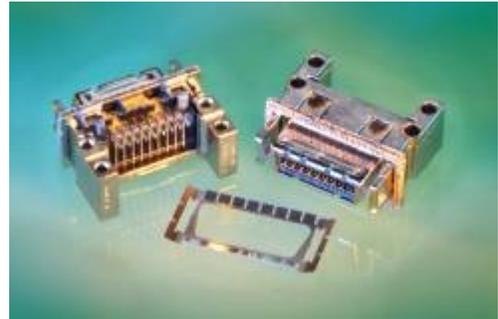
91804 Latch Receptacle

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

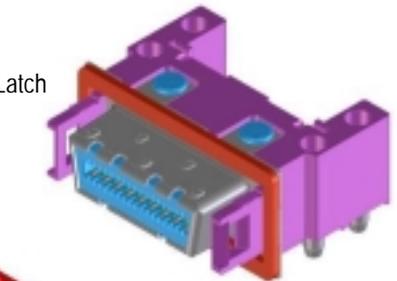
Mechanical

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

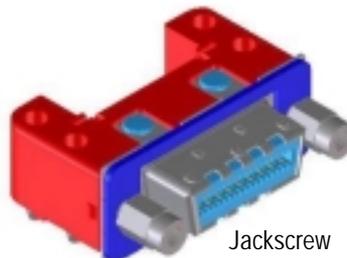
Physical

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



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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



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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