

Low Profile SlimSAS Cable Assembly

OVERVIEW

Luxshare-TECH develop the Low profile Slimsas, the new interconnect solution for higher speed signal transmission, such as SAS4.0(24Gbps) and PCIeGen4/5(16Gbps), which can be used in application of 24Gbps SAS signal or PCIeGen4(16GT/s).

Luxshare-TECH Low Profile Slimsas can further support PCIeGen5, that is 32GT/s. And for the other protocol, it could also be adopted in 56Gbps PAM4. With 0.6mm contact pitch, Low Profile(LP) SlimSAS are much smaller than the standard SlimSAS connectors so as to save PCB board space in customers' devices regardless of the footprint redesign just because they are compatible. There are straight, right angle and side-exit cable plug available and chosen.

Luxshare-TECH products have robust metal shell on receptacle on board and latch on plug so that its mating interface is very reliable. Low profile Slimsas have 4X, 8X and 16X configuration options. The length of the cable is up to 1meter. Luxshare-TECH 4X, 8X and 16X low profile Slimsas can be extended for 6X, 12X and 20X application, when all pins are used for high speed differential signal transmission.

FEATURES & BENEFITS

- Support cable to board application: 1.0mm PCB card thickness
- Multiple channels are optional: 4X/6X(38pos),8X/12X(74pos),16X/20X (124pos)more customized requirement available
- Small size design with great robustness : pitch 0.6mm connector and max 25N wrenching test
- Excellent SI performance: signal rates up to PCIe5 32GT/s, SAS 4.0 24Gbps and 25Gbps Ethernet
- Compatible with many different industry standards and protocols including SAS, PCIe and 25G Ethernet
- Straight, right angle, side exit and customization cable plug are optional
- 85 ohm and 100 ohm impedances are optional
- 30-34AWG cables are available for both discrete and ribbon cable
- RoHS compliant. Halogen free is available on request

PRODUCT APPLICATIONS

DATA

Servers
RAID System
Storage Racks
HBA Interfaces
NIC, AIC
Edge Computing device
AI architecture

COMMUNICATIONS

Router Switches

INDUSTRY STANDARDS

SAS 3.0 / 4.0(24Gbps)
PCIe Gen 4 / Gen 5(32GT/s)
OpenCAPI 25Gbps
25G Ethernet

TECHNICAL INFORMATION

MATERIAL

Contact gold plated 30u"
Metal Latch, Plastic body

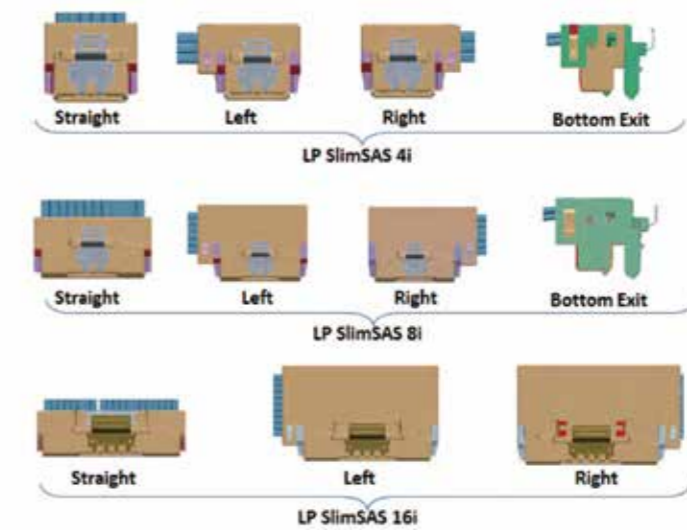
ELECTRICAL PERFORMANCE

Differential impedance: 85 & 100 ohm
Current : 0.5 A/contact
Voltage: 30 V AC/contact

SPECIFICATION

ES-10-00-0020

TYPES



MECHANICAL PERFORMANCE

Rated Durability Cycles 250
Latched Plug Retention Force 50 N minimum

ENVIRONMENTAL

Storage temperature range: -20°C to +80°C
Operating temperature: 0°C to +80°C
RoHS compliant

Partial PN Table

Product Numbers	Product Description
LA0LPXXX-SD-R	Internal LP SlimSAS 4i Cable Assembly 1.0 m 30 AWG
LA0LPXXX-SD-R	Internal LP SlimSAS 8i Cable Assembly 1.0 m 30 AWG
LA0LPXXX-SD-R	Internal LP SlimSAS 16i Cable Assembly 1.0 m 30 AWG
LA0LPXXX-SD-R	Internal LP SlimSAS 4i Cable Assembly 0.7 m 32 AWG
LA0LPXXX-SD-R	Internal LP SlimSAS 8i Cable Assembly 0.7 m 32 AWG
LA0LPXXX-SD-R	Internal LP SlimSAS 16i Cable Assembly 0.7 m 32 AWG
LA0LPXXX-SD-R	Internal LP SlimSAS 4i Cable Assembly 0.5 m 34 AWG
LA0LPXXX-SD-R	Internal LP SlimSAS 8i Cable Assembly 0.5 m 34 AWG
LA0LPXXX-SD-R	Internal LP SlimSAS 16i Cable Assembly 0.5 m 34 AWG