

MiniSAS-HD Cable Assembly

OVERVIEW

Luxshare-TECH MiniSAS-HD is a standard cable-to-board interconnection for SAS and PCIe protocol in server and storage device. It is a high density interface that double the density of the MiniSAS solution. Luxshare-TECH MiniSAS-HD cable assembly could provide faster data rates and more bandwidth together with the corresponding connectors on board. It supports SAS3.0, SAS4.0 and PCIeGen3/PCIeGen4.

Luxshare-TECH MiniSAS-HD cable assembly family provides full range of the cable plug options, including straight and multi-right angle types. In the other side, 1x1 for 4i and 1x2 for 8i plug are also available.



FEATURES & BENEFITS

- Support cable to board application: 1.0mm PCB card thickness
- Multiple channels are optional: 4X(36pos),8X(72pos),more customized requirement available
- Small size design with great robustness : Pitch 0.75mm connector and max 25N wrenching test
- Excellent SI performance: Signal rates up to PCIe4 16GT/s, SAS 4.0 24Gbps
- Compatible with diverse industry standards and protocols including SAS and PCIe
- Straight, right angle, side exit and customization cable plug are optional
- 85 ohm and 100 ohm impedances are optional
- 28-32AWG 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

COMMUNICATIONS

Switches

INDUSTRY STANDARDS

SFF-8643
SAS 3.0 / 4.0(24Gbps)
PCIe Gen 3 / Gen 4(16GT/s)

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-10-00-0017

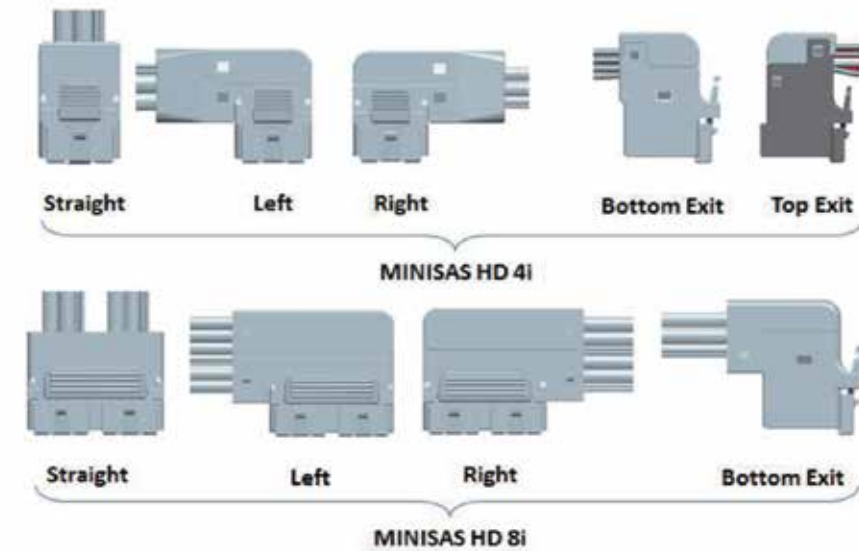
MECHANICAL PERFORMANCE

Rated Durability Cycles 250
Latched Plug Retention Force 50 N minimum

ENVIRONMENTAL

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

TYPES



Partial PN Table

Product Numbers	Product Description
LA0HMXXX-SD-R	Internal MiniSAS-HD 4i Cable Assembly 1.0 m 30 AWG
LA0HMXXX-SD-R	Internal MiniSAS-HD 8i Cable Assembly 1.0 m 30 AWG
LA0HMXXX-SD-R	Internal MiniSAS-HD 4i Cable Assembly 0.7 m 32 AWG
LA0HMXXX-SD-R	Internal MiniSAS-HD 8i Cable Assembly 0.7 m 32 AWG
LA0HMXXX-SD-R	Internal MiniSAS-HD 4i Cable Assembly 0.5 m 34 AWG
LA0HMXXX-SD-R	Internal MiniSAS-HD 8i Cable Assembly 0.5 m 34 AWG