

## 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)

# MiniSAS-HD Cable Assembly

## 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

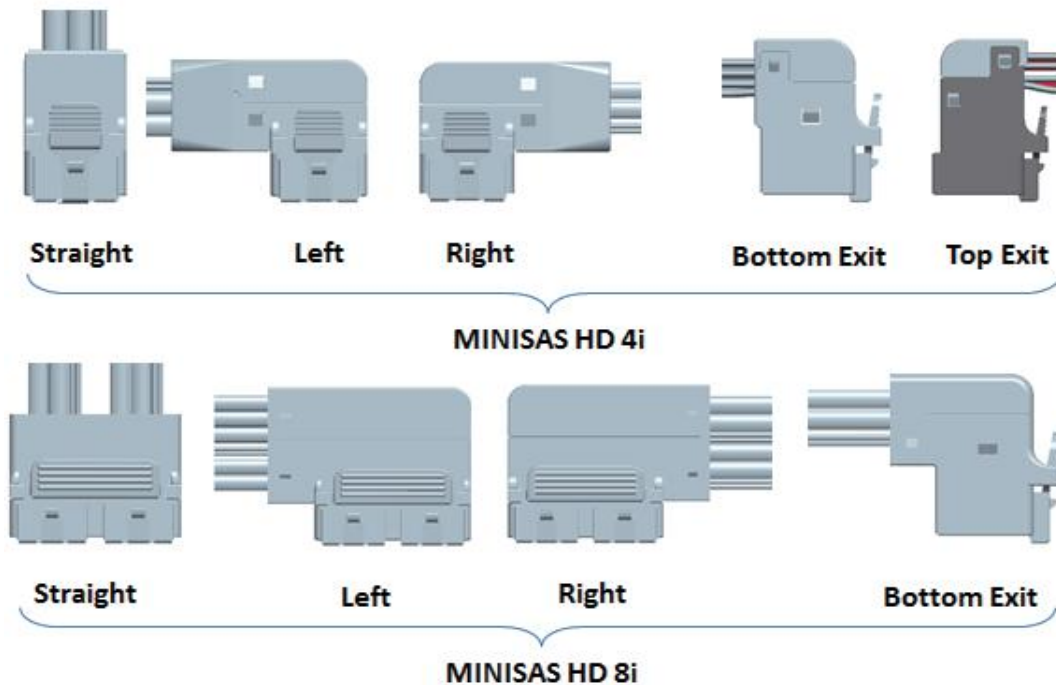
### MECHANICAL PERFORMANCE

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