

# SlimSAS Cable Assemblies



Delivering 12-, 16- and 24-Gbps data rates, SlimSAS Cable Assemblies meet SAS-3, SAS-4 and PCI Express 4 standards in a compact form factor for storage, mobile and enterprise industries

## Features and Advantages

**Meets SAS 4.0, 24 Gbps specifications**  
Meets next-generation industry standards

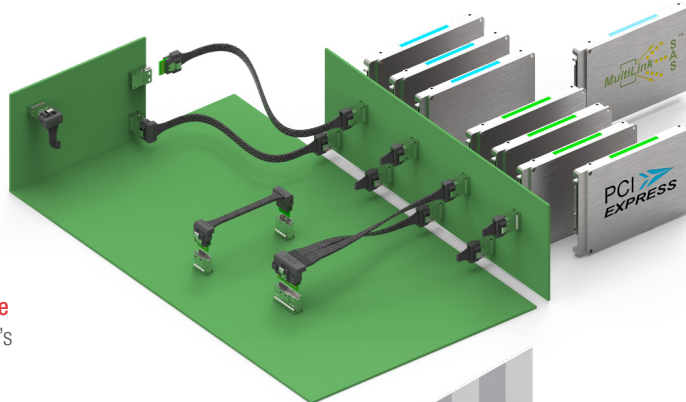
**Low-profile cable assemblies available**  
Eases implementation in space-constrained applications. Increases airflow

**Loose pair and ribbon cable design available**  
Offers flexible cable routing to meet application's specific needs

**Supports dual-drain raw cable**  
Provides design flexibility for PCB routing

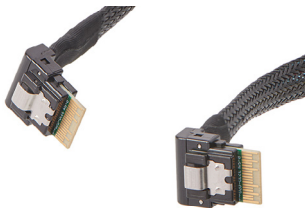
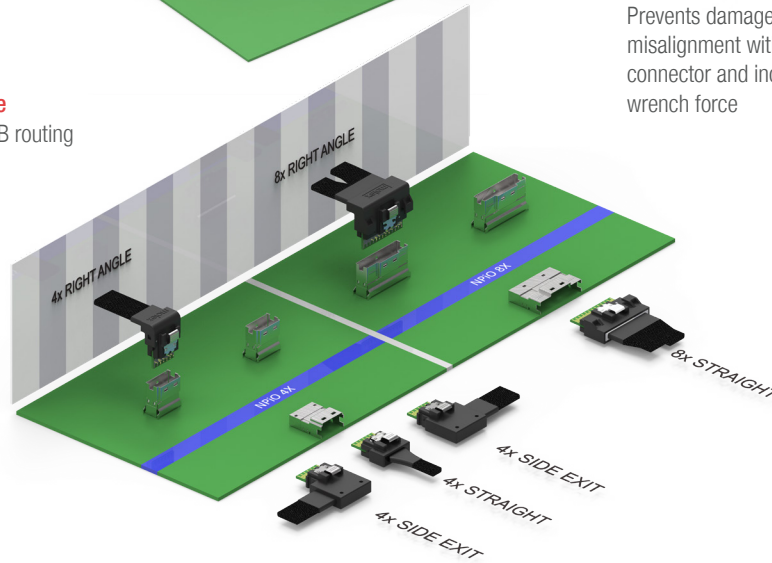
**Active plug-in design**  
Compatible with a variety of PCB layouts

**Sideband consists of differential signal (DS) pairs for high-speed channels**  
Can be extended in increments of DS pairs



**8X version take up the same area as 4X Mini-SAS HD**  
Meets performance targets for SAS 4.0 and PCIe 4.0

**8X enhanced design**  
Prevents damage from misalignment with connector and increased wrench force



SlimSAS 4X Right-Angle-to-Right-Angle Cable Assembly



SlimSAS 4X Straight-to-Straight Cable Assembly



SlimSAS 4X Straight-to-Right-Angle Cable Assembly



SlimSAS 8X Straight-to-Straight Cable Assembly



SlimSAS 8X Straight-to-Right-Angle Cable Assembly

**Flexible pinout available**  
Offers standard options that include 4 and 8 lanes

**Scalable platform via pin configuration**  
Offers extension capability in increments of the required direct pairs

**0.60mm pitch**  
Appropriate for high-density applications

# SlimSAS Cable Assemblies



## Markets and Applications

### Data Center Solutions

- Data Center and Enterprise Storage Systems
- Storage Racks
- JBODs
- Storage Controllers
- HBA (Host Bus Adapter) Servers
- RAIDs (Redundant Array of Individual Disks)



Storage Systems

### Telecommunications/Networking

- Servers
- Switches
- Routers

## Specifications

### REFERENCE INFORMATION

Packaging: Tape and Reel or Tray  
 UL File No.: E-148000 (for Cable)  
 Designed In: Millimeters  
 RoHS: Yes  
 Halogen Free: Yes  
 Flammability Rating: UL 94V-0

### ELECTRICAL

Voltage (max.): 30V DC per contact  
 Current (max.): 0.5A per contact  
 Contact Resistance (max.): 20 milliohms  
 Differential Impedance: 85 and 100 Ohms

### MECHANICAL

Latch Retention Force (min.): 50N  
 Connector Insertion Force: 55.5N  
 Connector Withdrawal Force (max.): 49N  
 Durability (min.): 250

### PHYSICAL

Housing: Black Color, LCP, Lead-Free Solder Reflow  
 Process-Compatible Thermoplastic  
 Contacts:  
     Base Material: Phosphor Bronze  
     Normal Force: 50g Nominal  
 Plating:  
     Solder Tail: Matte Tin or Gold Flash  
 Resonance Dampening Feature: Conductive Polymer  
 PCB: FR4 (Halogen Free)  
 Operating Temperature: -40 to +85°C

## Ordering Information

Series No.	Size	Orientation	Impedance	Protocol
<a href="#">207368</a>	4X	Straight-to-straight	100 Ohms	SAS 3.0, 4.0
<a href="#">207370</a>	4X	Right-angle-to-right-angle; Straight-to-right-angle	100 Ohms	SAS 3.0, 4.0
<a href="#">207371</a>	4X	Straight-to-straight	85 Ohms	PCIe 4.0
<a href="#">207372</a>	4X	Right-angle-to-right-angle; Straight-to-right-angle	85 Ohms	PCIe 4.0
<a href="#">207990</a>	8X	Straight-to-straight	100 Ohms	SAS 3.0, 4.0
<a href="#">207991</a>	8X	Right-angle-to-right-angle; Straight-to-right-angle	100 Ohms	SAS 3.0, 4.0
<a href="#">207992</a>	8X	Straight-to-straight	85 Ohms	PCI 4.0
<a href="#">207993</a>	8X	Right-angle-to-right-angle; Straight-to-right-angle	85 Ohms	PCIe 4.0

Custom Product	Description
<a href="#">Contact Molex</a>	Custom SlimSAS Cable Assemblies

[www.molex.com/link/slimsascable.html](http://www.molex.com/link/slimsascable.html)

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