

SlimSAS[™] Connectors – U10 Series

PROVEN, HIGH SPEED, NEXT-GENERATION SAS-4 INTERFACE

SlimSAS™ connectors address issues in next-generation storage devices such as bulk cable form factor restrictions and the introduction of multi-lane storage devices.

SlimSAS™ connector is a 0.60mm pitch interconnect system which offers superior signal integrity performance over standard Mini-SAS solutions.

- Designed for unshielded, internal or external I/O connectors
- Compliant with T10/Serial Attached SCSI (SAS-4) standard
- Supports many assembly options



FEATURES

- High density connector
- 0.60mm pitch, 4x, 6x, 8x, 12x configurations
- 8x SlimSAS solution consumes the same area as 4x Mini-SAS HD
- Supports internal and external I/O applications
- Small Form Factor
- High data rate
- Low profile packaging
- Meets SAS 4.0, 24Gb/s specification
- Resonance dampening feature
- Supports many assembly options

BENEFITS

- Low profile connector saves space
- Complete interconnect solution for different applications
- Performance targeted for next-gen SAS 4.0 and PCIe Gen 4
- Receptacle mates pluggable modules
- Supports desired high speed design
- Meets next-generation industry standards
- Customized signal integrity specification and support NVLink 25G
- Supports blade and mainstream server designs

TECHNICAL INFORMATION

MATERIAL

- Housing: Black color, LCP, Lead Free Solder Reflow Process Compatible Thermoplastic
- Contact Base Material: Phosphor Bronze
- Contact Normal Force: 50g nominal
- Plating Solder Tails: Matte tin or Gold flash options
- Plating Mating Tails: Gold
- Resonance Dampening Feature: Conductive Polymer

MECHANICAL PERFORMANCE

- Mating Force: 55.5 N max.
- Durability: 250 mating cycles min.
- Latch Retention Force: 50 N min.
- Insertion Force: 55.5 N
- Withdrawal Force: 49 N

APPROVALS AND CERTIFICATIONS

- UL 94V-0
- RoHS
- Halogen-free

PACKAGING

■ Tape & Reel

ELECTRICAL PERFORMANCE

- Voltage Rating: 30VDC per contact max.
- Current Rating: 0.5A per contact max.
- Differential Impedance: 85 Ω ± 10 Ω

ENVIRONMENTAL

■ Operating Temperature: -40°C to +85°C

SPECIFICATION

- Amphenol Product Specification: SFF-8654

TARGET MARKETS/APPLICATIONS



Data Center HBA (Host Bus Adapter) Servers RAIDS (Redundant Array of Individual

Disks) Routers Switches Servers

Servers Storage Racks Storage Controllers

PART NUMBER SELECTOR

