

# Cablexa CAB-8644-8644-0AM Datasheet



External Mini SAS HD SFF-8644 to Mini SAS HD SFF-8644 12G Copper Cable, 0.5 meter

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This Mini-SAS HD SFF 8644 product range offers high-speed interconnectivity for various applications and includes a Mini-SAS HD copper cable assembly. This Mini-SAS HD storage interface can support 6Gb/s, 12 Gb/s, and 24Gb/s and is compatible with all SAS versions, including SAS 2.1, SAS 3, SAS 4, and PCI Express.

The Mini-SAS HD (MSAS HD) products meet SFF 8644 and SFF 8088 industry standards. With a high port density of 11mm (port-to-port,) our cable assemblies are suitable for various applications, including high-performance computing, rack-mounted servers, and Redundant Arrays of Inexpensive Disks (RAID). External Mini-SAS HD connectors support x4 and x8 external copper cable assembly solutions and EEPROM.

## Features

- Optimized EM-888k laminated PCB with a gold finger, solder pads and separate Tx and Rx board designs, meeting the 24G SAS 4 electrical performance requirement. This PC board design also lowers PS-NEXT, FEXT, and AXT crosstalk.
- A copper cable assembly is available in either a 4x or 8x configuration, providing flexibility for SAS system data bandwidth designs. These assemblies are also compatible with PCI Express 4x and 8x.
- The MSAS HD cable features Electrical Erasable Read-Only Memory, or EEPROM, allowing for standard memory map compliance and the ability to make changes on the fly.
- 26, 28, and 30 American Wire Gauge (AWG) cables have connector backshells with a low-profile design, making a

high-density I/O panel port layout possible, provided that the application distance is less than 3 meters.

- The cables feature an enhanced latch design that can withstand a retention force of up to 180N. Because of the high latch retention, cables will maintain their connection, even under stress. The latch design requires a low insertion force, allowing for easy connections.
- A pull-to-release lanyard is available for HD SFF 8644 cable assemblies for easy disconnection. These lanyards are available in different lengths and colors to meet different application needs and system requirements.
- Hybrid HD SFF 8088 to SFF 8644 external cables are available to connect Mini-SAS HD with Mini-SAS, making backward integration with legacy system hardware possible.
- Cable sizes range from 26 to 30 AWG, and can support various cable length options, including 0.5m, 1m, 1.5m, 2m, 3m, 4m, 5m, and 7m.
- The production of every part takes place in compliance with RoHS standards, which lowers the occurrence of defects and ensures adherence to environmental standards.

## Specifications

- Cable Type: External 4x Mini-SAS HD Cable
- Connector A: SFF-8644 (4x HD Mini-SAS)
- Connector B: SFF-8644 (4x HD Mini-SAS)
- Cable Length: 0.5m
- Data Rate: 12Gbps
- Number of Channels: 4x
- Wire Size: 30AWG
- Product Types: Passive
- Operating Temperature Range: -40°C to 85°C
- Packaging: Anti-Static Bag

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