

# Cablexa CAB-8643-8087 Datasheet



Internal HD Mini SAS SFF-8643 to Mini SAS SFF-8087 Cable, Straight to Straight

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## Features and benefits

- Length: 0.5~1 meter
- 30AWG
- Connector A: Internal Mini SAS HD (SFF-8643)
- Connector B: Internal Mini SAS (SFF-8087)
- Impedance: 100 Ohms
- Sideband
- Data Rate = 6Gb/s

## Mechanical behavior

- Fit and non-fit
- Conditions: EIA 364-13. Insert and extract at a speed of 25 mm/min.
- Mating power: 100N maximum.
- Relieving force: 50 nautical miles maximum.

## Electrical performance

- Contact current rating: 0.5 The maximum ampere per needle when mating.
- Voltage level: 30 volts per contact when mating or not mating.
- Contact resistance: After the stress test, the maximum initial is 30mohm, and the maximum is 15mohm.
- Withstand medium voltage: 500 volts, no failure in 1 minute.
- Insulation resistance: At least 1000 moms.

### Signal integrity

- Matching connector impedance: 100 ohm  $\pm$  15%
- Absolute cable impedance: 100 ohm  $\pm$  10%
- Cable pair matching:  $\pm$ 5 ohm
- Common mode impedance: 25 to 40 ohms
- Insertion loss: -6Db up to 4.5Ghz; 11Db up to 9Ghz
- Crosstalk: -35dB up to 6GHz

### Applications

- Fibre Channel
- InfiniBand
- SAS 2.1 (Serial Attached SCSI) compliant
- RoHS Compliant

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