

### TECHNICAL INFORMATION

#### MATERIALS

- Board Receptacle Contact: Copper alloy
- Board Receptacle Housing: Thermoplastic high temperature UL94V-0
- Board Receptacle Plating: Gold over Nickel
- Plug Paddle Card: Copper/FR4 – Gold over Nickel plating.

#### ELECTRICAL PERFORMANCE

- Impedance: 100 +/- 15Ω
- Voltage Rating: 30 Volts AC (RMS)/DC Max
- Current Rating: 0.5 Amps Max

#### APPROVALS AND CERTIFICATIONS

- RoHS conforms to EU directive 2002/95/EC
- UL Approval

#### PACKAGING

- Board Receptacle: Tray
- Plug/Cable Assembly: Bag

#### ENVIRONMENTAL

- Thermal Shock (temperature cycling): conforms to EIA-364-32
- Temperature life (heat aging): conforms to EIA-361-17, 105°C for 500 hours

#### MECHANICAL PERFORMANCE

- Durability: 200 cycles

#### SPECIFICATIONS

- Product Spec: GS-12-651



Mini-SAS HD Family



Cable Assemblies



External Assemblies



Internal Assemblies

### PART NUMBERS-BOARD CONNECTORS

| Part Number    | Product Description                                 | Signal Pairs |
|----------------|-----------------------------------------------------|--------------|
| 10112626-101LF | Mini-SAS HD 1 X 1 External Assembly (12 Gb/channel) | 8 Pair       |
| 10112627-101LF | Mini-SAS HD 1 X 2 External Assembly (12 Gb/channel) | 16 Pair      |
| 10112628-101LF | Mini-SAS HD 1 X 4 External Assembly (12 Gb/channel) | 32 Pair      |
| 10112632-101LF | Mini-SAS HD 1 X 1 Internal Assembly (12 Gb/channel) | 8 Pair       |
| 10112633-101LF | Mini-SAS HD 1 X 2 Internal Assembly (12 Gb/channel) | 16 Pair      |
| 10112634-101LF | Mini-SAS HD 1 X 4 Internal Assembly (12 Gb/channel) | 32 Pair      |

### PART NUMBERS-CABLE ASSEMBLIES

| Part Number | Product Description                                                                                                                                    | Signal Pairs |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| 10112041    | Mini-SAS HD to Mini-SAS HD passive cable assembly - 4x configuration - SAS 2.1 (6Gb/s) compatible                                                      | 8 Pair       |
| 10117771    | Mini-SAS HD to Mini-SAS passive cable assembly- SAS 2.1 (6Gb/s) compatible - 4 x configuration on mini-SAS HD end and universal keying on mini-SAS end | 8 Pair       |
| 10112359    | Mini-SAS HD to Mini-SAS HO passive cable assembly - 8x configuration - SAS 2.1 (6Gb/s) compatible                                                      | 16 Pair      |
| 10117947    | Mini-SAS HD to Mini-SAS passive cable assembly- SAS 2.1 (6Gb/s) compatible - 8x configuration on mini-SAS HD end and universal keying on mini-SAS end  | 16 Pair      |

Preliminary datasheet

For more information please visit: [www.fciconnect.com/hsio](http://www.fciconnect.com/hsio) or contact: [minisashd@fciconnect.com](mailto:minisashd@fciconnect.com)

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