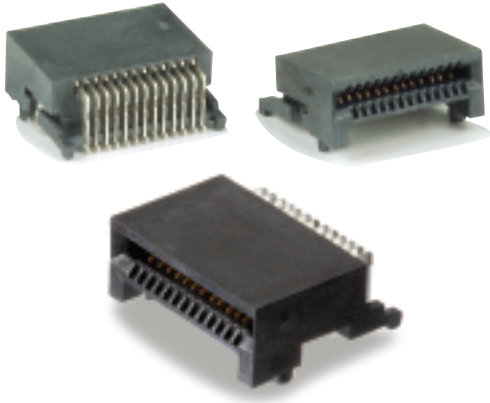


MINI-SAS

FS Series



Amphenol's latest addition to the high speed family, this connection system of the Compact MultiLane Connector is based on industry proven card edge style contacts. This connector system is designed to satisfy the needs for gigabit serial data transmission applications with signal speeds across the connector interface at speeds of up to 6 Gbps on both rows of contacts.

The cage is mounted separately to the body so that the stress imposed by insertion and removal of the cable plug does not affect the signal/body solder joints.

The interconnect system comprises of a high-speed serial interconnect system complying with the SFF8086, SFF8087, and SFF8088 specifications.

Applications

Supporting multiple data transfer protocols:

- Serial Attached SCSI Mini SAS 4x

- Servers
- Routers
- Storage Devices

Product Specification for Mini-SAS connector system

Connector Mechanical Characteristics

26 position 0.8mm pitch SMT receptacle
Coplanarity spec 0.1mm
Insertion force: 55.5 N maximum
Withdrawal force: 49.0 N maximum
Durability: 250 mating cycles

Cage Mechanical Characteristics

Single and 1x2 cages available
Standard (1° angle) and 0° versions
Multiple keying according to SFF8088
Includes EMC gasket and appropriate M2 mounting screws

Connector Electrical Characteristics

Maximum current: 0.5A per contact
Maximum voltage: 30V per contact
LLCR: 80 mΩ max
Insulation Resistance: 1000 MΩ at 100V DC for 60 seconds
DWV: 300 V minimum DC for 60 seconds

Materials

Connector

- Contacts
 - Base material – copper alloy
 - Plating - refer to p/n table for options
- Housings: Black color, glass-reinforced, lead-free solder reflow process compatible thermoplastic, UL94V-0 rated

Cage

- Base material – zinc alloy #3
- Plating – 100μ" nickel plated

Gasket

- Conductive elastomeric foam or metal spring fingers

Operating temperature -55° to +85°C
Storage temperature -55° to +85°C

Process Characteristics

Connectors are tape and reel packaged for robotic pick-and-place in accordance with EIA-481-C. Cages are packaged in trays with mounting screws separately bagged.

Ordering Information

Contact Amphenol for additional options

FS Series Connector Part Numbers

FS1 - R26 - X 0 0 X

R26 - 26 position connector

OPTIONS

- 0 - Standard connector
- 1 - Connector with hold down tabs

PLATING

- 2 - 50μ" nickel under-plate all over,
30μ" gold in mating area/ 100μ" matte tin on tails
- 3 - 50μ" nickel under-plate all over,
15μ" gold in mating area/ 100μ" matte tin on tails

www.mini-sas.com

Telephone: (416) 291-4401 Fax: (416) 754-8668 E-Mail: sales@amphenolcanada.com

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FS Series

Ordering Information

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FS Series Cage Part Numbers

FS1 - S X X - 1 X X X - X X

SIZE AND CONFIGURATION

01 - 1X - 1 deg
F1 - 1X - 0 deg
02 - 2X - 1 deg
F2 - 2X - 0 deg
04 - 4X - 1 deg
F4 - 4X - 0 deg

Special

OPTION

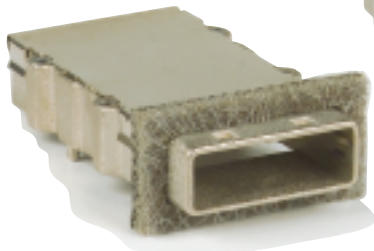
E1 - EMC gasket
E2 - EMC gasket - no mounting screws
F1 - Foam gasket

KEYING

0 - No key
1 - Key #1
2 - Key #2
3 - Key #3
4 - Key #4
5 - Key #5
6 - Key #6
7 - Key #7
24 - Key #2 and #4
46 - Key #4 and #6
22 - LEFT PORT Key #2 & #4 / RIGHT PORT Key #2 & #4
66 - LEFT PORT Key #4 & #6 / RIGHT PORT Key #4 & #6
26 - LEFT PORT Key #2 & #4 / RIGHT PORT Key #4 & #6
62 - LEFT PORT Key #4 & #6 / RIGHT PORT Key #2 & #4

PLATING

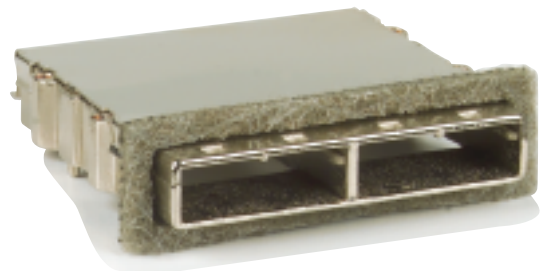
1 - Nickel (ROHS)



Single port cage with conductive foam gasket



Single port cage with spring fingers gasket



1x2 cage with conductive foam gasket



1x4 cage with spring fingers gasket

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