

Mini-SAS

Amphenol ICC's Mini-SAS external I/O connector system consists of a die-cast metal cage and a Compact Multi-Lane SMT connector. It supports Fiber Channel and InfiniBand standards, making it the perfect solution to the ever-growing demand of high-speed mass storage systems, servers, and storage area networks. Providing four serial send/receive channels per port, this connector system provides signal speeds of 6Gb/s per channel. 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. Mini-SAS satisfies the requirements of the INCITS T10 SAS 2.0 and SAS 2.1, and provides reverse keying for active copper cables per SAS 2.0 and SAS 2.



TECHNICAL INFORMATION

MATERIAL

- Housing: Black color, Glass reinforced, Lead Free Solder Reflow Process Compatible Thermo Plastic
- Contacts Base Material: Phosphor Bronze

Plating Solder Tails: Matte tin

Plating Mating Area: Gold

• Base Material (Cage): Zinc alloy

• Plating (Cage): Nickel

MECHANICAL PERFORMANCE

Durability: 250 mating cycles

• Mating Force: 55.5 N max.

Contact Normal Force: 100 grams

■ PCB Thickness (Cage): 1.8 mm (0.070 in.) min.

• Unmating Force (Cage): 49.0 N max.

ELECTRICAL PERFORMANCE

Operating Voltage: 30 VDC per contact

• Operating Current: 0.5 A per contact

• Differential Impendance: 100 Ω +/- 10 Ω

ENVIRONMENTAL

- Operating and (Storage) Temperature: -40°C to +85°C
- RoHS & Halogen-Free

TOOLING INFORMATION

• Light Pipe Options: Available

TARGET MARKETS/APPLICATIONS



Blade Server Patch Panels

RAID

Rack-mount server

Router

Servers

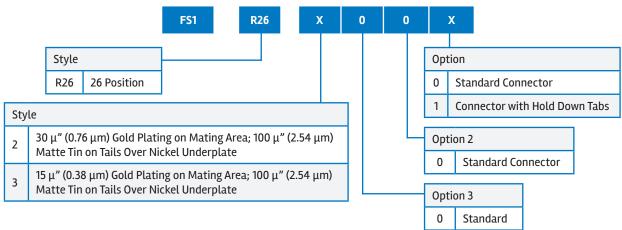
Storage Rack

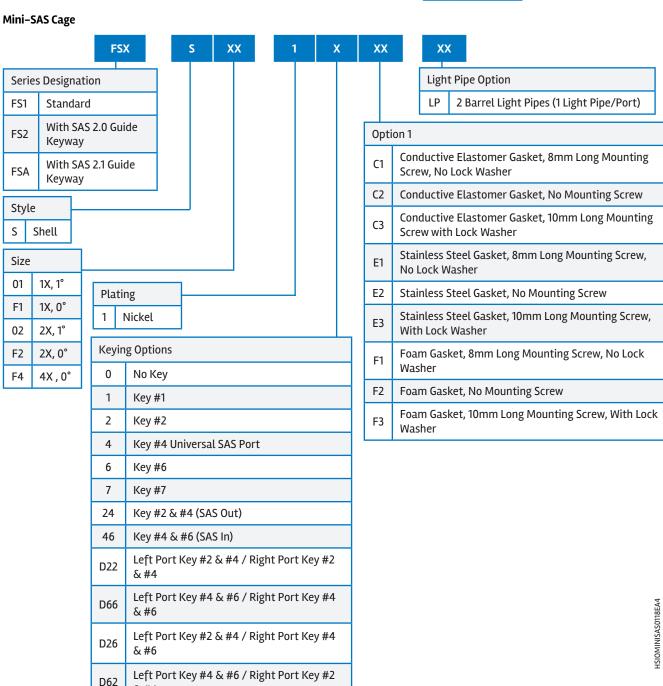
Workstation

Mini−SAS

PART NUMBER SELECTOR

Mini-SAS Connector





Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Amphenol:

FS1-S02-14E1 FS1-SF2-14E1 FS1-S01-124E1 FS1-S01-14E1 FS1-SF1-14E1 FS1-R26-2000 FS1-R26-2001 FS1SF414E1 FS1SF1124E1 FS1SF1146E1 FS1S0114E3 FS1S021D22E1 FS1S021D66E1 FS1SF21D62E1 FS2S0214E1 FS1-R26-3000 FS1-S01-14C1 FS1-SF1-14C1 FS1-SF2-14C1 FS1-S02-14C1 FS2S0114E1 FS1S0114E2 FS1SF214F2 FS1S0110E1 FS1S0111E1