

## 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 Impedance: 100Ω +/- 10Ω

### ENVIRONMENTAL

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

### TOOLING INFORMATION

- Light Pipe Options: Available

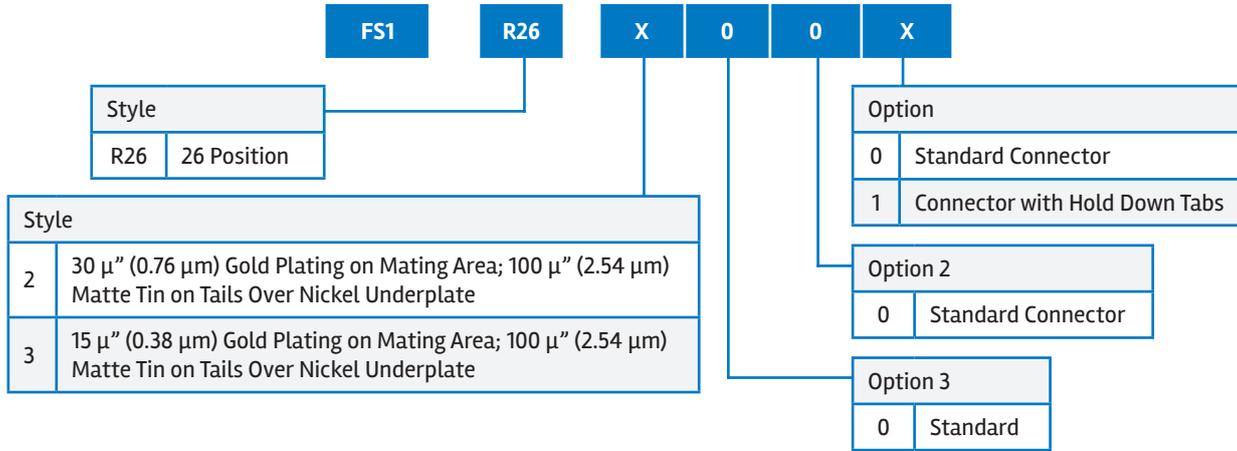
### TARGET MARKETS/APPLICATIONS



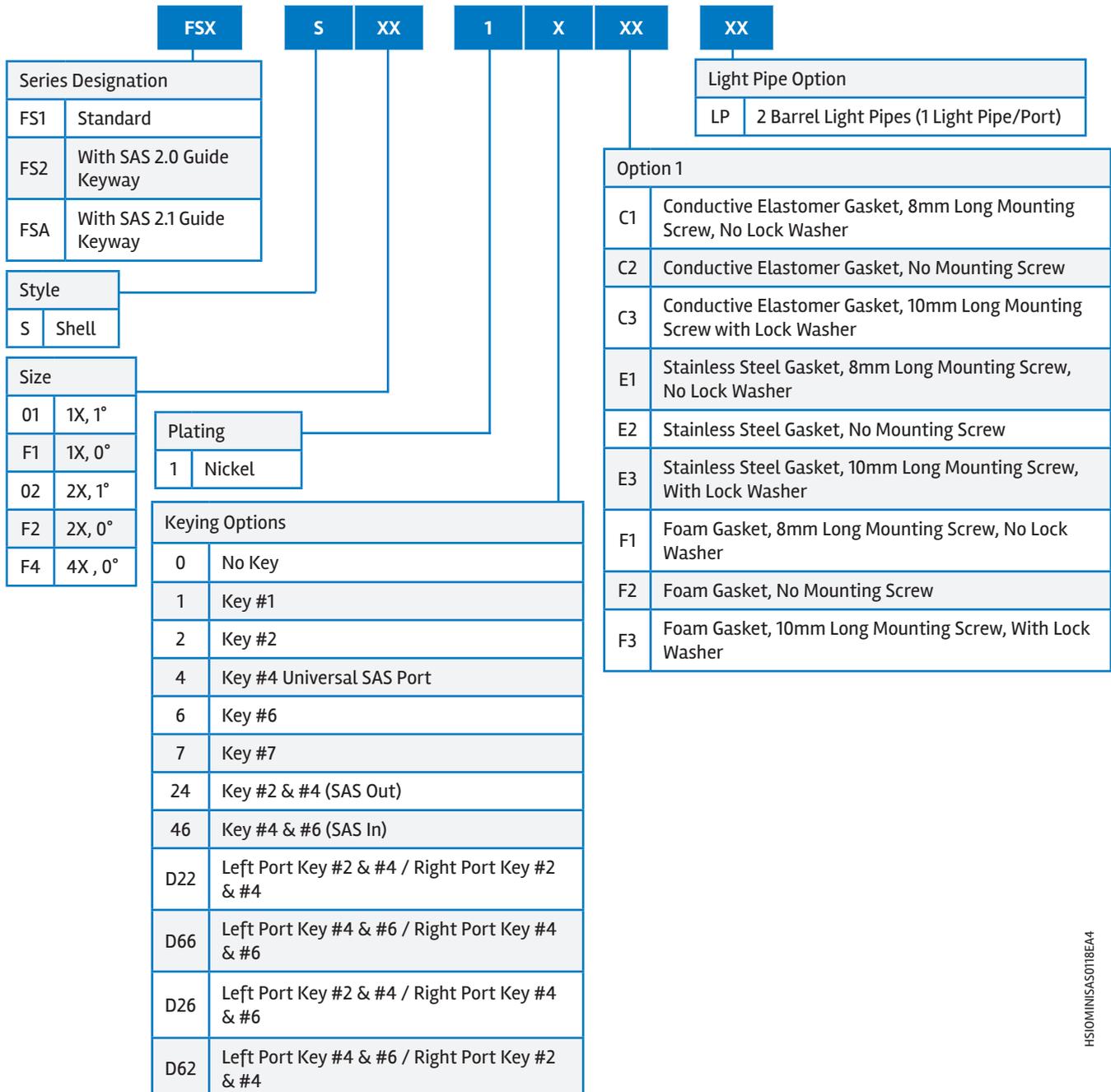
Blade Server  
Patch Panels  
RAID  
Rack-mount server  
Router  
Servers  
Storage Rack  
Workstation

# PART NUMBER SELECTOR

## Mini-SAS Connector



## Mini-SAS Cage



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