# 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.



**TARGET MARKETS**



# 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: 100Ω +/– 10Ω

## ENVIRONMENTAL

▪ Operating and (Storage) Temperature: –40°C to +85°C

▪ RoHS & Halogen–Free
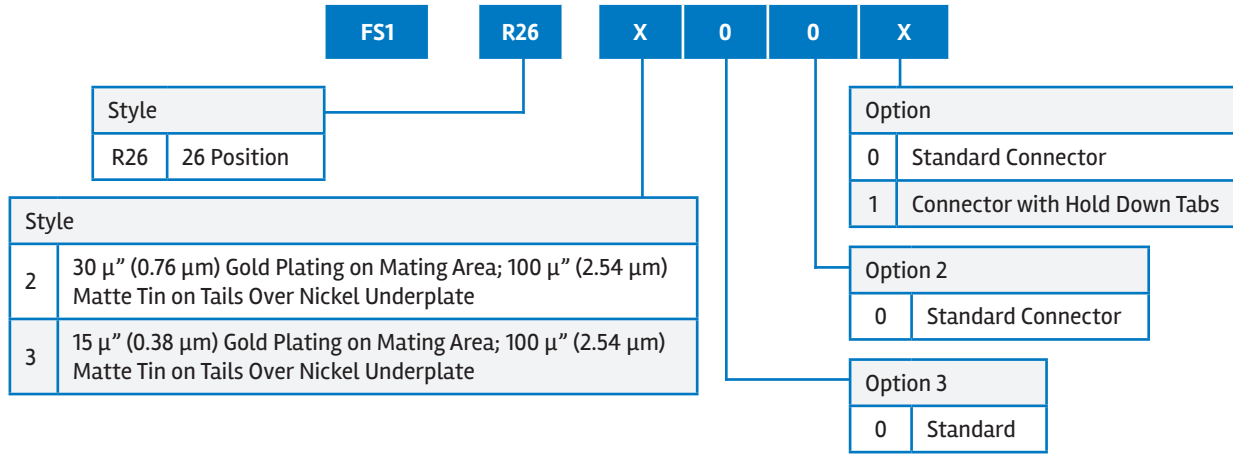
## TOOLING INFORMATION

▪ Light Pipe Options: Available
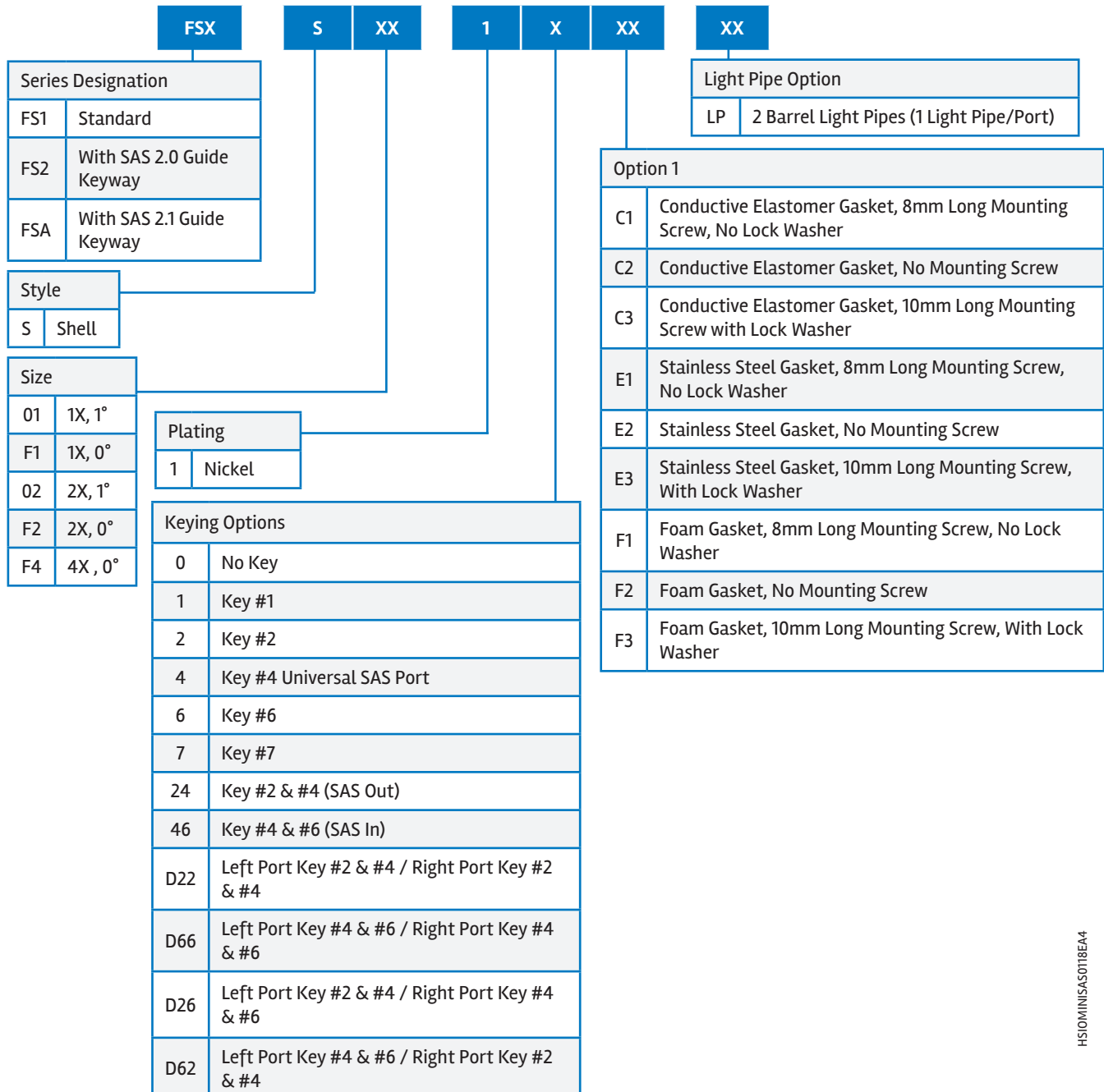
## TARGET MARKETS/APPLICATIONS


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

# Mini-SAS

## PART NUMBER SELECTOR

### Mini-SAS Connector

| FS1 | R26 | X | 0 | 0 | X |
|-----|-----|---|---|---|---|

**Style**

| R26 | 26 Position |
|-----|-------------|

**Style**

| 2 | 30 μ" (0.76 μm) Gold Plating on Mating Area; 100 μ" (2.54 μm) Matte Tin on Tails Over Nickel Underplate |
|---|---|
| 3 | 15 μ" (0.38 μm) Gold Plating on Mating Area; 100 μ" (2.54 μm) Matte Tin on Tails Over Nickel Underplate |

**Option**

| 0 | Standard Connector |
|---|---|
| 1 | Connector with Hold Down Tabs |

**Option 2**

| 0 | Standard Connector |
|---|---|

**Option 3**

| 0 | Standard |
|---|---|

### Mini-SAS Cage

| FSX | S | XX | 1 | X | XX | XX |
|-----|---|----|----|----|----|----|

**Series Designation**

| FS1 | Standard |
|-----|----------|
| FS2 | With SAS 2.0 Guide Keyway |
| FSA | With SAS 2.1 Guide Keyway |

**Style**

| S | Shell |
|---|-------|

**Size**

| 01 | 1X, 1° |
|----|--------|
| F1 | 1X, 0° |
| 02 | 2X, 1° |
| F2 | 2X, 0° |
| F4 | 4X , 0° |

**Plating**

| 1 | Nickel |
|---|--------|

**Keying Options**

| 0 | No Key |
|---|--------|
| 1 | Key #1 |
| 2 | Key #2 |
| 4 | Key #4 Universal SAS Port |
| 6 | Key #6 |
| 7 | Key #7 |
| 24 | Key #2 & #4 (SAS Out) |
| 46 | Key #4 & #6 (SAS In) |
| D22 | Left Port Key #2 & #4 / Right Port Key #2 & #4 |
| D66 | Left Port Key #4 & #6 / Right Port Key #4 & #6 |
| D26 | Left Port Key #2 & #4 / Right Port Key #4 & #6 |
| D62 | Left Port Key #4 & #6 / Right Port Key #2 & #4 |

**Light Pipe Option**

| LP | 2 Barrel Light Pipes (1 Light Pipe/Port) |
|----|------------------------------------------|

**Option 1**

| C1 | Conductive Elastomer Gasket, 8mm Long Mounting Screw, No Lock Washer |
|----|---|
| C2 | Conductive Elastomer Gasket, No Mounting Screw |
| C3 | Conductive Elastomer Gasket, 10mm Long Mounting Screw with Lock Washer |
| E1 | Stainless Steel Gasket, 8mm Long Mounting Screw, No Lock Washer |
| E2 | Stainless Steel Gasket, No Mounting Screw |
| E3 | Stainless Steel Gasket, 10mm Long Mounting Screw, With Lock Washer |
| F1 | Foam Gasket, 8mm Long Mounting Screw, No Lock Washer |
| F2 | Foam Gasket, No Mounting Screw |
| F3 | Foam Gasket, 10mm Long Mounting Screw, With Lock Washer |

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