

Mini-SAS

Product Description

The 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 6 Gbps 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.

Applications			SFF Supported Standards	
RAID	Router/Switch	Blade server	Connector SFF-8086	
Workstations	Patch panels	Servers	Cage SFF-8088	
Rack-mount server	Routers	Storage rack		

Product Specifications - Mini-SAS			
CONNECTOR		CAGE	
Materials Specifications			
Housing	Black color, Glass reinforced , Lead Free Solder Reflow, Process Compatible Thermo Plastic	PCB Thickness	1.8 mm (0.070 in.) min.
Contacts Base Material	Phosphor Bronze	Base Material	Zinc alloy
Contact Normal Force	100 grams	Plating	Nickel
Plating Solder Tails	Matte tin		
Plating Mating Area	Gold		
Operating Temperature	-40° to +85° C		
Electrical Specifications			
Operating Voltage	30 VDC per contact		
Operating Current	0.5 A per contact		
Differential impedance	100 Ω +/-10 Ω		
Mechanical Specifications			
Mating Force	55.5 N Max.	Unmating Force	49.0 N max.
Durability	250 mating cycles		
Options			
Packaging	Tape and Reel	Packaging	Tray
Light Pipe Options	Available		
Environmental Specifications Options			
RoHS	Yes		
Halogen Free	Yes		
Flammability Rating	UL 94V-0		



Ordering Information

Mini-SAS Connector		FS1	R26	X	0	0	X	
FS1	SERIES DESIGNATION						OPTION	X
R26	STYLE						OPTION 2	0
	R26 - 26 Position						OPTION 3	0
							PLATING	X
							0 - Standard Connector	
							1 - Connector with Hold Down Tabs	
							0 - Standard Connector	
							0 - Standard	
							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	

Mini-SAS Cage		FSX	S	XX	1	X	XX	XX
FSX	SERIES DESIGNATION						LIGHT PIPE OPTION	XX
	FS1 - Standard						OPTION 1	XX
	FS2 - With SAS 2.0 Guide Keyway						C1 - Conductive Elastomer Gasket, 8mm Long Mounting Screw, No Lock Washer	
	FSA - With SAS 2.1 Guide Keyway						C2 - Conductive Elastomer Gasket, No Mounting Screw	
							C3 - Conductive Elastomer Gasket, 10mm Long Mounting Screw with Lock Washer	
S	STYLE						E1 - Stainless Steel Gasket, 8mm Long Mounting Screw, No Lock Washer	
	S - Shell						E2 - Stainless Steel Gasket, No Mounting Screw	
XX	SIZE						E3 - Stainless Steel Gasket, 10mm Long Mounting Screw, With Lock Washer	
	01 - 1X, 1°						F1 - Foam Gasket, 8mm Long Mounting Screw, No Lock Washer	
	F1 - 1X, 0°						F2 - Foam Gasket, No Mounting Screw	
	02 - 2X, 1°						F3 - Foam Gasket, 10mm Long Mounting Screw, With Lock Washer	
	F2 - 2X, 0°							
	F4 - 4X, 0°							
1	PLATING							
	1 - Nickel							
X	KEYING OPTION							
	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							



Order Information:
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For more information consult factory or visit amphenol-highspeed.com

Product Applications; List represents common uses for the product but is not limited to these uses.

