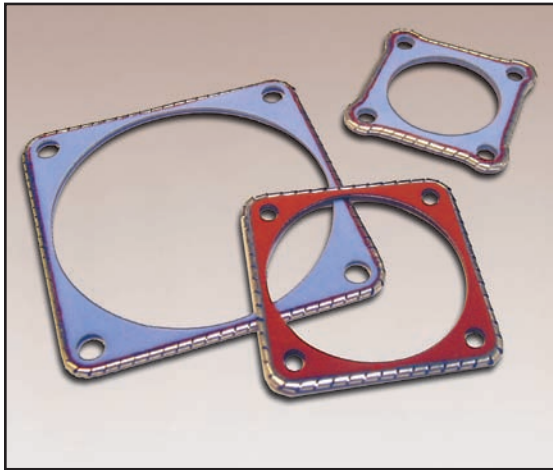
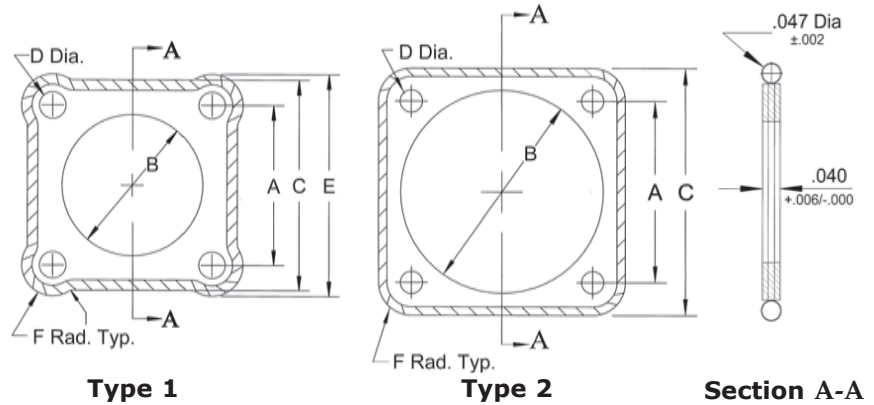


NEW Front-Mount EMI & Environmental Connector-Seal



Spira's *Front-Mount* EMI & Environmental Connector-Seal gaskets are designed to provide an EMI & Environmental seal in flange-mounted connectors for the life of a system. They provide superior shielding quality and an excellent and durable environmental seal.



Application Information

These gaskets are made by attaching a Spira-Shield O-Ring to an environmental sealing retaining frame. The retaining frame consists of a stainless steel plate with vulcanized silicone or fluorosilicone sheeting on both sides of the plate. The stainless steel plate eliminates cold flow of the environmental sealing elastomer.

The "FMECS" *Front-Mount* EMI & Environmental Connector-Seal has the EMI gasket on the *outside* of the frame to provide an environmental seal when front mounting the connector. (As shown in the figures.) Please see the previous pages for our standard or back-mount "ECS" EMI & Environmental Connector-Seal.

Materials

See page 55 for material specifications.

Frame: Corrosion resistant Stainless steel, between silicone or fluorosilicone elastomeric sheeting material.

Spiral: Spira-Shield standard force tin/lead plated beryllium copper gasket. Compression force is ~ 30 lbs/linear inch. (See *Options* for RoHS compliance).

Shielding Quality

Connector-Seal gaskets offer shielding quality from 116 to 152 dB. The level is dependent on contact surfaces and may vary depending on your specific application. Refer to Shielding Quality for more complete performance data.

Available Options

Plating

See page 56 for material compatibility information.

See table below for spiral plating options.

The gasket is electroplated, 90% tin, 10% lead per AMS-P-81728 (edges unplated). Plating options can be specified by changing the prefix in the part number:

E: Edge tin/lead plating (includes edges) for high humidity or salt-fog environments

IW: RoHS compliant tin plating (Example: FMECS-IW-11S2 /S)

EIW: RoHS compliant edge tin plating for high humidity or salt-fog

Frame

The frame is stainless steel sealed on both sides by silicone or fluorosilicone elastomeric material. Specify "/S" for Silicone or "/F" for Fluorosilicone.

Specify frame and plating options by choosing the desired prefix from the table.

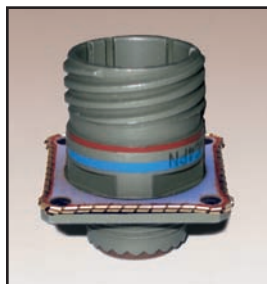
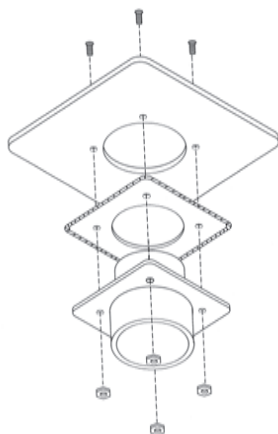
Sealing	Tin/Lead Plated Gasket	RoHS Tin Plated Gasket	Edge Tin/Lead Plated Gasket	RoHS Edge Tin Plated Gasket
Silicone	FMECS-T-___ /S	FMECS-IW-___ /S	FMECS-E-___ /S	FMECS-EIW-___ /S
Fluorosilicone	FMECS-T-___ /F	FMECS-IW-___ /F	FMECS-E-___ /F	FMECS-EIW-___ /F

Specify dash number from table on page FM-24.

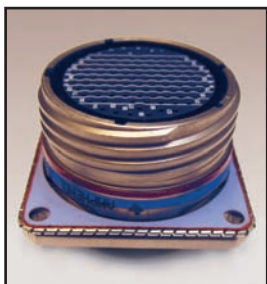


Ordering Information

Front Mount EMI/Environmental Connector-Seal gaskets are ordered by the piece.



**Front Mount
Type 1***



**Front Mount
Type 2**

**Environmental Silicone
or Fluorosilicone Seal:**

FMECS - T - /

Gasket Plating Elastomer Sealing
T: Tin **/S:** Silicone
E: Edge Tin **/F:** Fluorosilicone
IW: RoHS Tin
EIW: RoHS Edge Tin
NI: Stainless Steel
TNI: Tin Stainless St.
IWNI: RoHS Stainless St.

Dash No.	MIL-C-38999					A	B	C	D	E	F
	Series I	Series II	Series III								
03S1	9					0.719	0.666	0.958	0.120	0.999*	0.140
06S1	11					0.812	0.806	1.051	0.120	1.092*	0.140
08S1	13					0.906	0.932	1.145	0.120	1.186*	0.140
10S1	15					0.969	1.057	1.243	0.120		0.137
12S1	17					1.062	1.170	1.336	0.120		0.137
14S1	19					1.156	1.307	1.460	0.120		0.152
16S1	21					1.250	1.432	1.585	0.120		0.168
18S1	23					1.375	1.557	1.710	0.152		0.168
20S1	25					1.500	1.682	1.835	0.152		0.168
01S2		8				0.594	0.563	0.828	0.120	0.874*	0.140
05S2		10				0.719	0.680	0.954	0.120	0.999*	0.140
07S2		12				0.812	0.859	1.047	0.120	1.092*	0.140
09S2		14				0.906	0.984	1.141	0.120	1.186*	0.140
11S2		16				0.969	1.068	1.243	0.120		0.137
13S2		18				1.062	1.193	1.346	0.120		0.142
15S2		20				1.156	1.318	1.471	0.120		0.158
17S2		22				1.250	1.443	1.596	0.120		0.173
19S2		24				1.375	1.570	1.723	0.152		0.174
04S3			9			0.719	0.635	0.948	0.120	1.000*	0.141
06S3			11			0.812	0.760	1.042	0.120	1.094*	0.141
08S3			13			0.906	0.885	1.136	0.120	1.188*	0.141
10S3			15			0.969	1.010	1.254	0.120		0.143
12S3			17			1.062	1.185	1.348	0.120		0.143
14S3			19			1.156	1.260	1.449	0.120		0.147
16S3			21			1.250	1.385	1.575	0.120		0.163
18S3			23			1.375	1.510	1.701	0.150		0.163
20S3			25			1.500	1.635	1.823	0.150		0.162
				MS-3412, MIL- DTL 5015 Series II	MIL-C-28840	A	B	C	D		F
22				8		0.594	0.510	0.875	0.120		0.141
23				10		0.719	0.635	1.000	0.120		0.141
24					11	0.750	0.760	1.023	0.120		0.137
25				12		0.812	0.760	1.094	0.120		0.141
26				14	13	0.843	0.885	1.138	0.120		0.148
27				14		0.906	0.885	1.188	0.120		0.141
28				16	15	0.968	1.072	1.258	0.120		0.145
29				16		0.969	1.010	1.281	0.120		0.156
30				18	17	1.015	1.135	1.383	0.120		0.184
31				18		1.062	1.135	1.375	0.120		0.157
32				20	19	1.140	1.322	1.508	0.120		0.184
33				20		1.156	1.260	1.500	0.120		0.172
34				22		1.250	1.385	1.625	0.120		0.188
35				24	23	1.281	1.510	1.718	0.120		0.219
36				24		1.375	1.510	1.750	0.150		0.188
37				28	25	1.392	1.635	1.818	0.150		0.213
38				28		1.562	1.760	2.000	0.150		0.219
39				32	29	1.568	1.885	2.138	0.150		0.285
40				32		1.750	2.010	2.250	0.170		0.250
41				36	33	1.734	2.073	2.328	0.170		0.297
42				36		1.938	2.260	2.500	0.170		0.281
43				40		2.188	2.510	2.750	0.170		0.281
44				44		2.375	2.760	3.000	0.170		0.313
45				48		2.625	3.010	3.250	0.170		0.313

* Type 1 gaskets have an E dimension to provide sufficient environmental sealing on smaller sizes. See drawing on page FM-23.
 Custom sizes are also available. Contact us for more information.