DESCRIPTION:

Wire mesh/elastomer combinations are produced by vulcanizing shielding mesh, normally SnCuFe (Tin plated, Copper clad, Steel wire) or Monel, with an elastomer, either silicone or Neoprene. To create a reliable low cost shielding gasket with environmental sealing properties, for use in military and electronic applications.

APPLICATION:

Ideal for use as enclosure, window, and panel gaskets and where substantial joint unevenness is apparent. Choice of shielding mesh should take into consideration the type of metals being interfaced, to insure compatibility; and the attenuation required. The elastomer should be chosen to meet your compression, temperature, and sealing needs. The elastomer is available with an adhesive back; either temporary (PSA) or permanent (DRYBACK Neoprene only), for ease in installation.

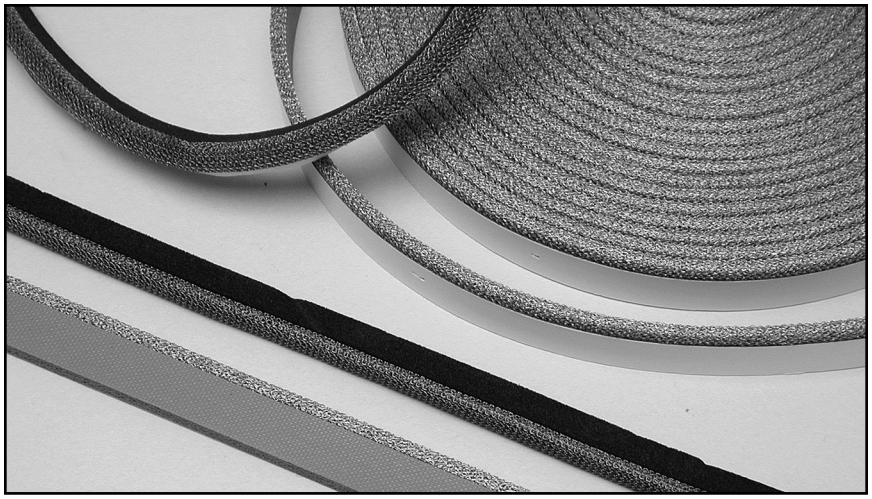
SPECIFICATIONS:

Listed below are the most commonly used mesh and elastomer types. Others are available upon request.

AVAILABILITY:

Each of the above products is available in a variety of cross sections. Ja-Bar's number system is designed to eliminate confusion when ordering a particular style. As you can see the first three digits determine the mesh and elastomer required. The next four digits determine the cross sectional make-up of the finished part, the first of which tells us if it is "standard" or "custom". If it is "custom" the remaining three digits will be assigned from Ja-Bar's numerical listing of custom parts. If it is "standard", reference the following system.

4xx-0xxx	Standard
4xx-00xx	Plain (no adhesive)
4xx-01xx	PSA
4xx-1xxx	Custom
4xx-02xx	Dry back (green)
4xx-03xx	Dry back (red)



Part No.	Elastomer	Specification	Color
41X	Silicone Sponge	AMS 3195	Gray /Red
42x	Neoprene Sponge	Mil-R-6130	Black
43x	Silicone Solid	ZZ-R-765 (2b40)	Gray/Red
44x	Silicone Solid	ZZ-R-765 (3a30)	Gray/Red
45x	Neoprene Solid	Mil-R-6855	Black
46x	Fluorosilicone	Mil-R-25988 (50)	Blue
47x	Fluorosilicone Sponge	—	Blue

TABLE 4.1 - ELASTOMER SPECIFICATIONS

Part No.	Wire	Specification	Diameter
4X1	Monel	QQ-N-281	.0045
4X2	SnCuFe	ASTM B520	.0045
4X3	Aluminum	AMS 4182	.005
4X4	SnPhBr	ASTM B105	.0045
4X5	AgBrass	QQ-W-321	.0045

TABLE 4.2 - MESH SPECIFICATIONS

Material:	Monel	SnCuFe	Aluminum	SnPhBronze
Shielding Effectiveness:				
100 KHz	45	50	40	65
10 MHz	115	115	100	120
500 KHz	110	110	90	110
1 GHz	95	95	80	95
Closure Force: (min psi)	10	10	10	10
Compression Set (40min psi)	7%	9%	12%	9%

TABLE 4.3 - PERFORMANCE CHARACTERISTICS

TOLERANCE LIMITATIONS

From	To	Solid Elastomer	Sponge Elastomer	Wire Mesh
.062	.093	+ / - .015	+ / - .016	+.016 / -.000
.125	.188	+ / - .015	+ / - .031	+.031 / -.000
.250	.500	+ / - .032	+ / - .047	+.047 / -.000
.625	1.000	+ / - .047	+ / - .094	+.062 / -.000

TABLE 4.5

Wire Mesh/Elastomer Combinations
Series 400

Part No.	"A"	"B"	"C"	"D"
0x01	.062	.125	. 062	.125
0x02	.062	.125	.062	.250
0x03	.062	.125	.062	.375
0x04	.062	.125	.062	.500
0x05	.062	.125	.062	.625
0x06	.062	.125	.062	1.00
0x07	.093	.125	.093	.125
0x08	.093	.125	.093	.250
0x09	.093	.125	.093	.375
0x10	.093	.125	.093	.500
0x11	.093	.125	.093	.625
0x12	.093	.125	.093	1.00
0x13	.093	.188	.093	.125
0x14	.093	.188	.093	.250
0x15	.093	.188	.093	.375
0x16	.093	.188	.093	.500
0x17	.093	.188	.093	.625
0x18	.093	.188	.093	1.00
0x19	.125	.125	.093	.125
0x20	.125	.125	.093	.250
0x21	.125	.125	.093	.375
0x22	.125	.125	.093	.500
0x23	.125	.125	.093	.625
0x24	.125	.125	.093	.875
0x25	.125	.125	.093	1.00
0x26	.125	.125	.125	.125
0x27	.125	.125	.125	.250
0x28	.125	.125	.125	.375
0x29	.125	.125	.125	.500
0x30	.125	.125	.125	.625
0x31	.125	.125	.125	.875
0x32	.125	.125	.125	1.00
0x33	.125	.187	.125	.187
0x34	.125	.187	.125	.312
0x35	.125	.250	.125	.250
0x36	.125	.250	.125	.500
0x37	.125	.250	.125	.750
0x38	.187	.125	.156	.250
0x39	.187	.125	.156	.375
0x40	.187	.125	.156	.500
0x41	.187	.125	.156	.875
0x42	.187	.125	.187	.125
0x43	.187	.125	.187	.250
0x44	.187	.125	.187	.375
0x45	.187	.125	.187	.625
0x46	.187	.125	.187	.875
0x47	.187	.187	.187	.187
0x48	.187	.187	.187	.312
0x49	.187	.187	.187	.563
0x50	.187	.187	.187	.812
0x51	.188	.250	.188	.250
0x52	.188	.250	.188	.375
0x53	.188	.250	.188	.500
0x54	.188	.250	.188	.750
0x55	.250	.125	.250	.125
0x56	.250	.125	.250	.250
0x57	.250	.125	.250	.375
0x58	.250	.125	.250	.500
0x59	.250	.125	.250	.625
0x60	.250	.125	.250	.875
0x61	.250	.250	.250	.125
0x62	.250	.250	.250	.250
0x63	.250	.250	.250	.500
0x64	.250	.250	.250	.750
0x65	.375	.250	.375	.250
0x66	.375	.250	.375	.500
0x67	.375	.250	.375	.750
0x68	.375	.375	.375	.125
0x69	.375	.375	.375	.375
0x70	.375	.375	.375	.125

COMMON MESH / ELASTOMER COMBOS

The last two digits will specify the dimensions

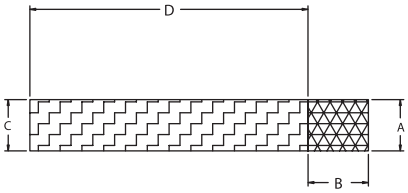


Figure 4.1 - Mesh / Elastomer Combo

TWIN MESH/ ELASTOMER COMBO

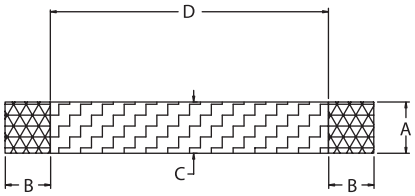


Figure 4.2 - Twin Mesh/Elastomer Combo

Part No.	"A"	" B"	"C"	"D"
0x75	.093	.093	.093	.312
0x76	.125	.125	.125	.250
0x77	.125	.125	.125	.375
0x78	.125	.125	.125	.500
0x79	.125	.125	.125	.750
0x80	.125	.250	.125	.500
0x81	.187	.187	.156	250
0x82	.187	.187	.156	.375
0x83	.187	.187	.187	.250
0x84	.187	.187	.187	.375
0x85	.250	.250	.250	.250