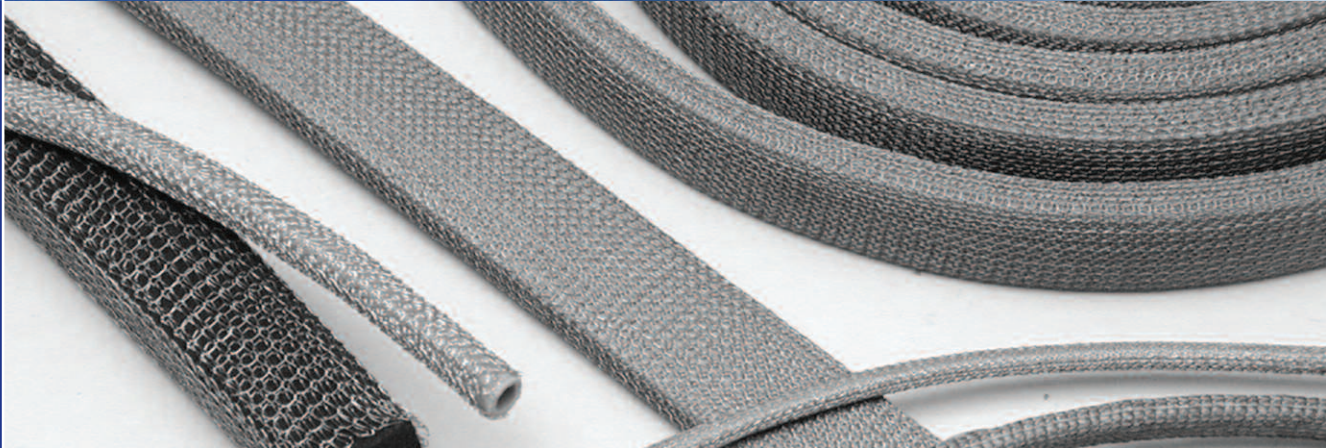


## WIRE MESH OVER ELASTOMER



WIRE MESH OVER ELASTOMER | 1500 RANGE

EMI

### DESCRIPTION:

Wire mesh over an elastomer is a double layer of wire mesh knitted over a round or rectangular core of elastomer. The mesh layers provide EMI/RFI shielding, while the elastomer acts as a dust and moisture seal. The standard mesh material is monel or tin-plated copper clad steel (SnCuFe).

### APPLICATION:

Wire mesh over elastomer combinations are used with doors, cabinets, and where surfaces may be uneven and low closure forces exist. For the many applications that require "cut-to-length" pieces that must be terminated with adhesive to stop the freying of the knitted mesh, Arka Technologies has devised a "co-extrusion" method of manufacturing silicone knit-overs, which results in a "Self-Terminating" material supplied in continuous lengths for use in a production line. Its new "Self-Terminating" can be specified by replacing the "0" in the fifth digit of our part number with "1" (silicone cores only).

### SPECIFICATIONS:

Listed are those wire mesh materials most commonly used for EMI/RFI shielding. Other metals are available by special request.

### AVAILABLE CROSS-SECTIONS

Part No.	Cross-Section	Table	Figure
1xxx	Rectangular	5.3	5.1
2xxx	Round	5.4	5.2
3xxx	Dumbbell	5.5	5.3
4xxx	Tadpole	5.6	5.4

### AVAILABLE WIRE MESH

Part No.	Wire	Specification	Diameter
15x1	Monel	QQ-N-281b	0.1mm
15x2	SnCuFe	ASTM B520	0.1mm
15x3	Aluminium	AMS 4182	0.13mm
15x4	SnPhBronze	ASTM B105	0.1mm
15x5	AGBrass	QQ-W-321	0.1mm
15x6	Stainless	Alloy 304	0.15mm

### AVAILABLE ELASTOMERS

151x	Neoprene Sponge Core
152x	Silicone Sponge Core
153x	Neoprene Solid Core
154x	Silicone Solid Core
155x	Silicone Tube (.040 wall thickness)
156x	Neoprene Tube (.040 wall thickness)

### PERFORMANCE CHARACTERISTICS RECTANGULAR GASKETING

Material	Monel	SnCuFe	Aluminium	SnPhBronze
Shielding db: 100KHz	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

## WIRE MESH OVER ELASTOMER

RECTANGULAR GASKETING

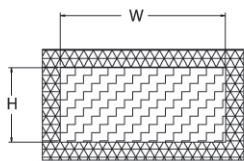


Figure 5.1 - Rectangular Gasket

ROUND GASKETING

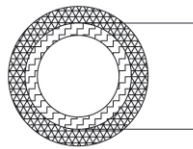


Figure 5.2 - Round Gasket

TADPOLE GASKETING

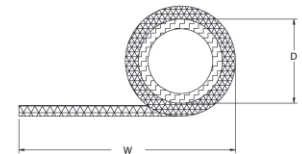


Figure 5.4 - Tadpole Gasketing

Part No.	W(mm)	H(mm)
1001	1.6	1.6
1002	1.6	3.2
1003	1.6	4.75
1004	1.6	6.35
1005	1.6	7.92
1006	1.6	9.53
1007	1.6	12.7
1033	1.6	15.88
1034	1.6	19.1
1035	1.6	25.4
1008	2.4	2.4
1009	2.4	3.2
1010	2.4	4.75
1011	2.4	6.35
1012	2.4	7.92
1013	2.4	9.53
1014	2.4	12.7
1036	2.4	15.88
1015	3.2	3.2
1037	3.2	3.96
1016	3.2	4.75
1017	3.2	6.35
1018	3.2	7.92
1019	3.2	9.53
1020	3.2	12.7
1038	3.2	15.88
1039	3.2	19.1
1040	3.2	25.4
1021	4.75	4.75
1022	4.75	6.35
1023	4.75	7.92
1024	4.75	9.53
1025	4.75	12.7
1041	4.75	15.88
1042	4.75	19.1
1043	4.75	25.4
1026	6.35	6.35
1027	6.35	7.92
1028	6.35	9.53
1029	6.35	12.7
1044	6.35	12.88

Table 5.3

Part No.	Diameter(mm)
2001	1.57
2002	2.36
2003	3.18
2004	3.96
2005	4.75
2006	6.35
2007	7.92
2008	9.53
2009	11.1
2010	12.7

Table 5.4

DUMBBELL GASKETING

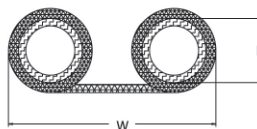


Figure 5.3 - Dumbbell Gasketing

Part No.	Bulbs(mm)	W(overall)
3050	1.6	9.53
3051	1.6	12.7
3052	1.6	15.88
3053	1.6	17.15
3054	1.6	19.1
3055	1.6	22.22
3056	2.4	12.7
3057	3.2	12.7
3058	3.2	15.88
3059	3.2	17.15
3060	3.2	19.1
3061	3.2	22.22
3062	3.2	25.4
3063	4.75	15.88
3064	4.75	19.1
3065	4.75	22.22
3066	4.75	25.4
3067	6.35	19.1
3068	6.35	22.22
3069	6.35	25.4
3070	6.35	31.75
3071	9.53	25.4
3072	9.53	31.75

Table 5.5

Part No.	Bulbs(mm)	W (Overall)
4050	1.57	9.52
4051	1.57	12.7
4052	1.57	15.88
4053	1.57	19.05
4054	2.36	9.52
4088	2.36	12.7
4055	2.36	19.05
4056	3.18	9.52
4057	3.18	11.1
4058	3.18	12.7
4059	3.18	14.27
4060	3.18	15.88
4061	3.18	19.05
4062	3.96	12.7
4063	3.96	15.88
4064	3.96	19.05
4065	4.75	11.1
4066	4.75	12.7
4067	4.75	15.88
4068	4.75	19.05
4069	4.75	22.22
4070	6.35	12.7
4071	6.35	15.88
4072	6.35	19.05
4073	6.35	22.22
4074	6.35	25.4
4075	7.92	15.88
4076	7.92	19.05
4077	7.92	22.22
4078	9.53	15.88
4079	9.53	19.05
4080	9.53	22.22
4081	9.53	25.4
4082	11.1	19.05
4083	11.1	22.22
4084	11.1	25.4
4085	12.7	19.05
4086	12.7	22.22
4087	12.7	25.4

Table 5.6