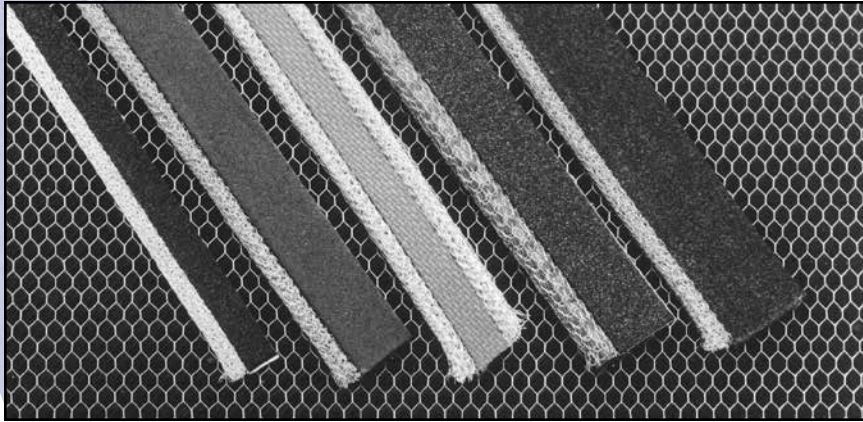


# EMI Shield Seal Gasketing (1500 Series)



The Shield Seal Strip is used in applications such as electronic cabinets where this type of material is utilized around the doors of the cabinet to seal off stray EMI signals. The Shield Seal Strip is also used extensively to shield electronic boxes of various sizes and shapes.

Adhesive backing on the elastomer is often preferred due to the ease of strip mounting. The knit wire mesh is available in various wire materials with Monel and Ferrous materials being the most popular. Double Shield Seal materials are available for added shielding effectiveness. Consult the attenuation characteristics to determine which material would best suit your requirements.

## EMI/RFI Shielding

The data presented in Table 1 was derived from laboratory tests performed upon EMI gaskets at MAJR. Test samples had an inside dimension of 12.00 x 12.00 inches (304.8 x 304.8 mm).

**Shielding Effectiveness vs Frequency — Table 1  
MONEL WIRE**

Field	Material Code -02-04 Frequency						
	10 kHz	100 kHz	1 MHz	18 MHz	100 MHz	400 MHz	1 GHz
H	40	60	80	—	—	—	—
E	—	—	—	110	—	—	—
PW	—	—	—	—	110	110	110

**TIN PLATED FERROUS WIRE**

Field	Material Code -10-12 Frequency						
	10 kHz	100 kHz	1 MHz	18 MHz	100 MHz	400 MHz	1 GHz
H	65	80	95	—	—	—	—
E	—	—	—	110	—	—	—
PW	—	—	—	—	110	110	110

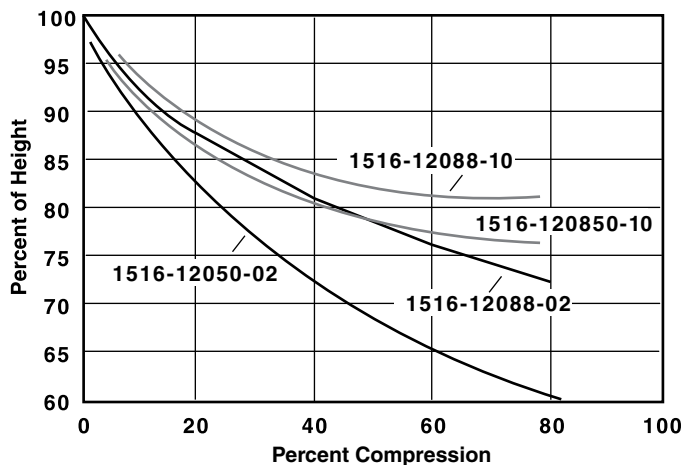
## Features

- **High Attenuation:** MAJR's tests show this shielding material as capable of over 110dB of shielding effectiveness in the E-Field and over 70 dB in the H-Field. MAJR provides state-of-the-art shielding effectiveness.
- **Wide Choice of Standard Materials:** Standard materials are available to meet extreme temperature conditions (-75° to 260°C) and EMI shielding conditions (beyond 110dB).
- **Protection Against Adverse Atmospheric Conditions:** The various elastomer materials as provided by MAJR protect electronic equipment against moisture and dust under severe temperature variations. There is a proper elastomer for almost every condition. Special materials are available through contacting our application engineers.

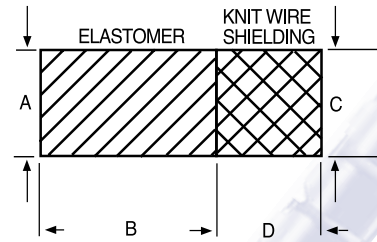
## Compression Forces

Figure 1 shows comparative data for solid and sponge elastomers indicating pressure required to deflect elastomer from its original height. (For reference only.)

**Compression vs Pressure — Figure 1**

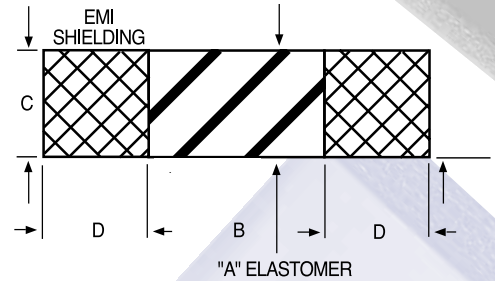


**Table 2**  
**Shield Seal Strips**



DIMENSIONS in inches and (millimeters)				PART NUMBERS			
A	B	C	D	Neo. Sponge & Monel	Silicone Sponge & Monel	Neo. Sponge & Tin Plated Ferrous	Silicone Sponge & Tin Plated Ferrous Wire
.062 (1.57)	.250 (6.35)	.062 (1.57)	.125 (3.18)	1516-06038-02	1516-06038-04	1516-06038-10	1516-06038-12
.062 (1.57)	.375 (9.53)	.062 (1.57)	.125 (3.18)	1516-06050-02	1516-06050-04	1516-06050-10	1516-06050-12
.093 (2.36)	.375 (9.53)	.093 (2.36)	.125 (3.18)	1516-09050-02	1516-09050-04	1516-09050-10	1516-09050-12
.093 (2.36)	.500 (12.70)	.093 (2.36)	.125 (3.18)	1516-09063-02	1516-09063-04	1516-09063-10	1516-09063-12
.125 (3.18)	.125 (3.18)	.125 (3.18)	.125 (3.18)	1516-12025-02	1516-12025-04	1516-12025-10	1516-12025-12
.125 (3.18)	.188 (4.78)	.125 (3.18)	.188 (4.78)	1516-00052-02	1516-00052-04	1516-00052-10	1516-00052-12
.125 (3.18)	.250 (6.35)	.125 (3.18)	.125 (3.18)	1516-12038-02	1516-12038-04	1516-12038-10	1516-12038-12
.125 (3.18)	.250 (6.35)	.125 (3.18)	.250 (6.35)	1516-00053-02	1516-00053-04	1516-00053-10	1516-00053-12
.125 (3.18)	.375 (9.53)	.125 (3.18)	.125 (3.18)	1516-12050-02	1516-12050-04	1516-12050-10	1516-12050-12
.125 (3.18)	.625 (15.88)	.125 (3.18)	.125 (3.18)	1516-12075-02	1516-12075-04	1516-12075-10	1516-12075-12
.188 (4.78)	.188 (4.78)	.188 (4.78)	.125 (3.18)	1516-19019-02	1516-19019-04	1516-19019-10	1516-19019-12
.188 (4.78)	.250 (6.35)	.188 (4.78)	.125 (3.18)	1516-19038-02	1516-19038-04	1516-19038-10	1516-19038-12
.188 (4.78)	.500 (12.70)	.188 (4.78)	.125 (3.18)	1516-19063-02	1516-19063-04	1516-19063-10	1516-19063-12
.250 (6.35)	.250 (6.35)	.250 (6.35)	.125 (3.18)	1516-25038-02	1516-25038-04	1516-25038-10	1516-25038-12
.250 (6.35)	.500 (12.70)	.250 (6.35)	.125 (3.18)	1516-25063-02	1516-25063-04	1516-25063-10	1516-25063-12
.375 (9.53)	.500 (12.70)	.375 (9.53)	.250 (6.35)	1516-38075-02	1516-38075-04	1516-38075-10	1516-38075-12

Note: Aluminum wire is available.  
All part numbers above are for elastomer with adhesive back.  
Change 1516 to 1515 for elastomer without pressure-sensitive adhesive (Neoprene sponge and silicone sponge only).



**Table 3**  
**Double EMI Shield-Seal Strip**

DIMENSIONS in inches and (millimeters)				PART NUMBERS			
A	B	C	D	Neo. Sponge & Monel	Silicone Sponge & Monel	Neo. Sponge & Tin Plated Ferrous	Silicone Sponge & Tin Plated Ferrous Wire
.125 (3.18)	.250 (6.35)	.125 (3.18)	.125 (3.18)	1516-00061-02	1516-00061-04	1516-00061-10	1516-00061-12
.125 (3.18)	.375 (9.53)	.125 (3.18)	.125 (3.18)	1516-00062-02	1516-00062-04	1516-00062-10	1516-00062-12
.125 (3.18)	.500 (12.70)	.125 (3.18)	.125 (3.18)	1516-00063-02	1516-00063-04	1516-00063-10	1516-00063-12
.188 (4.78)	.500 (12.70)	.188 (4.78)	.125 (3.18)	1516-00068-02	1516-00068-04	1516-00068-10	1516-00068-12