

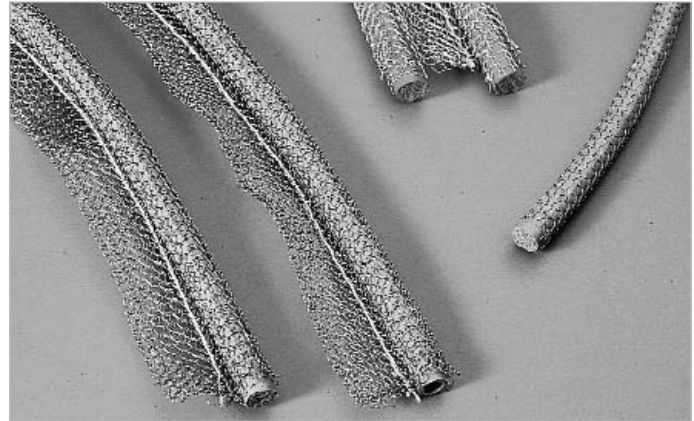


Laird Technologies ElectroNit® elastomer core offers low compression requirements and low compression set. It is available with a wide range of elastomer core materials and configurations, and a full selection of knitted mesh shielding covers. Combined, they mean greater system design efficiency with the attenuation levels you require.

Specified with beryllium copper knitted mesh, the gaskets provide as much as 20 dB greater attenuation than with conventional mesh shielding materials. Other available materials include Monel® and tin plated copper clad steel.

- High resiliency
- Low compression force requirements
- Groove or fin mounting

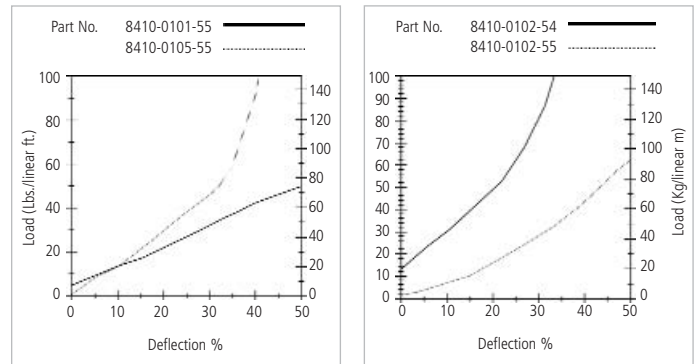
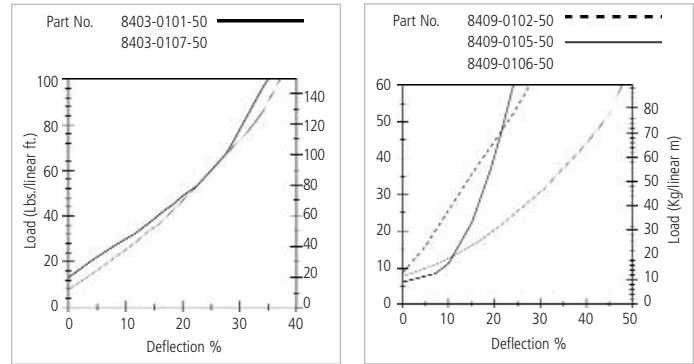
ElectroNit elastomer core EMI gasketing is available in round or rectangular configurations, with hollow or solid core, in sponge elastomer or solid silicone. It is available with beryllium copper, Monel®, or tin-plated copper clad steel, and is supplied on spools in 25 ft. (7,6 m) minimum lengths.



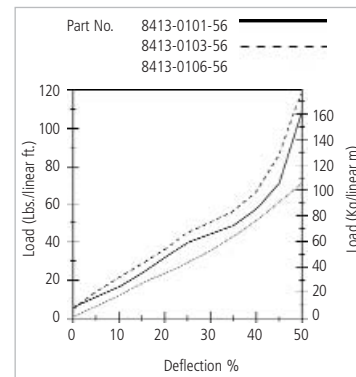
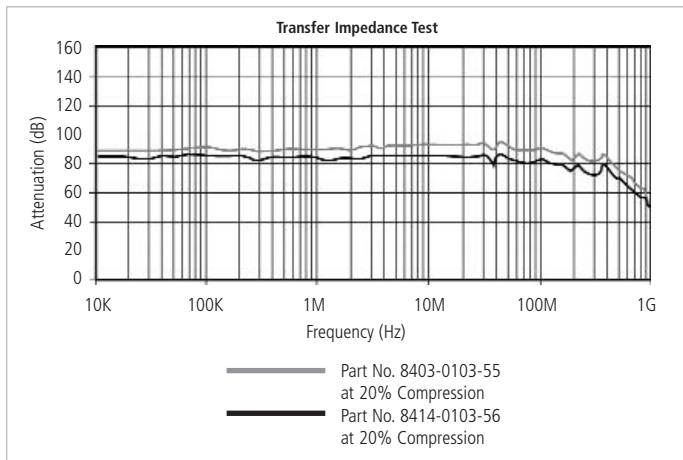
**TABLE 1. MATERIAL SPECIFICATIONS**

Wire Type	Description	Specification
Wire Type	Beryllium Copper	ASTM B 197
	Monel®	QQ N 281 Class A
	Tin Plated Copper Clad Steel	ASTM B 520
Elastomer Type	Neoprene Sponge	MIL-R-6130 Type II, Grade A (Closed Cell) Conditioned Medium; Temp. Range -24°F to 212°F (-31.1°C to 100°C)
	Silicone Sponge	AMS 3195 (Closed Cell); Temp. Range -103°F to 400°F (-75°C to 204°C)
	Silicone Solid	ZZ-R-765, Class 2, Grade 50; Temp. Range -80°F to 500°F (-62.2°C to 260°C)

## COMPRESSION-DEFLECTION



## Shielding Effectiveness

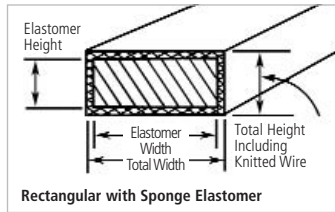


All dimensions shown are in inches (millimeters) unless otherwise specified.



## SIZE VS. TOLERANCE: RECTANGULAR WITH SPONGE ELASTOMER

Size Range	Tolerance	
	Width	Height
To 0.120 (3,1)	+ 0.030/- 0.020 (+0,8/-0,5)	+ 0.030/- 0.020 (+0,8/-0,5)
0.130 to 0.380 (3,3 to 9,7)	± 0.030 (±0,8)	± 0.030 (±0,8)
0.390 to 0.050 (9,9 to 12,7)	± 0.046 (±1,2)	± 0.046 (±1,2)
0.510 to 1.000 (13,0 to 25,4)	± 0.062 (±1,6)	± 0.062 (±1,6)



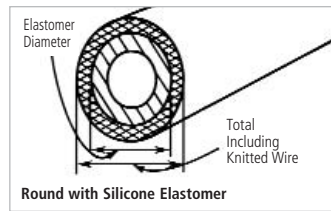
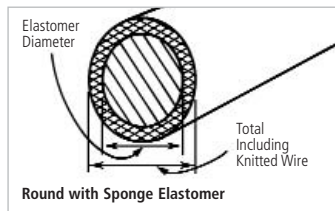
## RECTANGULAR WITH SPONGE ELASTOMER

Laird Technologies Part No.*	Elastomer Width	Elastomer Height	Total Width	Total Height
8409-0101-50	0.125 (3,2)	0.125 (3,2)	0.160 (4,1)	0.160 (4,1)
8409-0102-50	0.188 (4,8)	0.125 (3,2)	0.225 (5,7)	0.160 (4,1)
8409-0104-50	0.188 (4,8)	0.188 (4,8)	0.225 (5,7)	0.225 (5,7)
8409-0130-50	0.250 (6,4)	0.062 (1,6)	0.270 (6,9)	0.082 (2,1)
8409-0103-50	0.250 (6,4)	0.125 (3,2)	0.285 (7,2)	0.160 (4,1)
8409-0105-50	0.250 (6,4)	0.250 (6,4)	0.285 (7,2)	0.285 (7,2)
8409-0125-50	0.375 (9,5)	0.125 (3,2)	0.410 (10,4)	0.160 (4,1)
8409-0166-50	0.375 (9,5)	0.250 (6,4)	0.410 (10,4)	0.285 (7,2)
8409-0126-50	0.375 (9,5)	0.375 (9,5)	0.405 (10,3)	0.405 (10,3)
8409-0158-50	0.500 (12,7)	0.125 (3,2)	0.518 (13,2)	0.143 (3,6)
8409-0106-50	0.500 (12,7)	0.250 (6,4)	0.535 (13,6)	0.285 (7,2)
8409-0132-50	0.500 (12,7)	0.250 (6,4)	0.535 (13,6)	0.285 (7,2)
8409-0161-50	0.500 (12,7)	0.312 (7,9)	0.540 (13,7)	0.352 (8,9)
8409-0117-50	0.500 (12,7)	0.500 (12,7)	0.535 (13,6)	0.535 (13,6)
8409-0176-50	0.750 (19,1)	0.250 (6,4)	0.785 (19,9)	0.285 (7,2)
8409-0168-50	1.000 (25,4)	0.250 (6,4)	1.035 (26,3)	0.285 (7,2)
8409-0173-50	1.250 (31,8)	0.500 (12,7)	1.272 (32,3)	0.567 (14,4)

The suffix "50" is BeCu neoprene sponge. For other materials, replace the suffix "50" as follows: **54**-Neoprene sponge and Monel; **52**-Silicone sponge and beryllium copper; **55**-Silicone sponge and Monel; **60**-Neoprene sponge and tin plated copper clad steel; **61**-Silicone sponge and tin plated copper clad steel.

## SIZE VS. TOLERANCE: ROUND WITH SPONGE AND SILICONE

Size Range	Tolerance O.D.
To 0.120 (3,1)	± 0.020 (±0,5)
0.130 to 0.380 (3,3 to 9,7)	± 0.030 (±0,8)
0.390 to 0.050 (9,9 to 12,7)	+ 0.040/-0.030 (+1,0/-0,8)
0.510 to 1.000 (13,0 to 25,4)	+ 0.062/-0.040 (+1,6/-1,0)



## ROUND WITH SPONGE ELASTOMER

Laird Technologies Part No.	Elastomer Diameter	Total Diameter Over Wire
8410-0101-50**	0.062 (1,6)	0.098 (2,5)
8410-0102-50	0.125 (3,2)	0.160 (4,1)
8410-0103-50	0.188 (4,8)	0.225 (5,7)
8410-0104-50	0.250 (6,4)	0.285 (7,2)
8410-0105-50	0.312 (7,9)	0.348 (8,8)
8410-0106-50	0.375 (9,5)	0.410 (10,4)
8410-0107-50	0.500 (12,7)	0.535 (13,6)

The suffix "50" is BeCu neoprene sponge. For other materials, replace the suffix "50" as follows: **54**-Neoprene sponge and Monel; **52**-Silicone sponge and beryllium copper; **55**-Silicone sponge and Monel; **60**-Neoprene sponge and tin plated copper clad steel; **61**-Silicone sponge and tin plated copper clad steel.

\*\*Not available in Neoprene sponge.

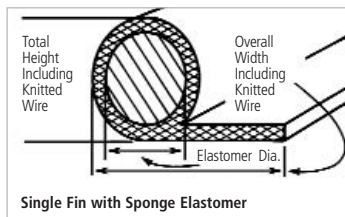
## ROUND WITH SILICONE ELASTOMER TUBING

Laird Technologies Tubing Part No.	Tubing Diameter (O.D.)	Diameter Over Wire
8413-0101-64	0.125 (3,2)	0.160 (4,1)
8413-0102-64	0.188 (4,8)	0.225 (5,7)
8413-0103-64	0.250 (6,4)	0.285 (7,2)
8413-0104-64	0.312 (7,9)	0.348 (8,8)
8413-0114-64	0.375 (9,5)	0.383 (9,7)
8413-0105-64	0.375 (9,5)	0.410 (10,4)
8413-0106-64	0.500 (12,7)	0.535 (13,6)

The suffix "64" is BeCu with silicone elastomer tubing. For other materials, replace the suffix "64" as follows: **56**-Silicone elastomer tubing with Monel; **65**-Silicone elastomer tubing with tin plated copper clad steel.

## SIZE VS. TOLERANCE: SINGLE FIN WITH SPONGE ELASTOMER

Size Range	Tolerance	
	Width	Height
0.130 to 0.380 (3,3 to 9,7)	± 0.030 (±0,8)	+ 0.060/-0.030 (+1,5/-0,8)
0.390 to 0.050 (9,9 to 12,7)	+ 0.040/- 0.030 (+1,0/-0,8)	± 0.060 (±1,5)
0.510 to 1.000 (13,0 to 25,4)	+ 0.062/- 0.040 (+1,6/-1,0)	+ 0.090/-0.060 (+2,3/-1,5)



## SINGLE FIN WITH SPONGE ELASTOMER

Laird Technologies Part No.*	Elastomer Diameter	Overall Width	Total Height
8403-0101-50	0.125 (3,2)	0.500 (12,7)	0.160 (4,1)
8403-0102-50	0.125 (3,2)	0.750 (19,1)	0.160 (4,1)
8403-0103-50	0.188 (4,8)	0.625 (15,9)	0.225 (5,7)
8403-0104-50	0.188 (4,8)	0.750 (19,1)	0.225 (5,7)
8403-0105-50	0.250 (6,4)	0.750 (19,1)	0.285 (7,2)
8403-0106-50	0.250 (6,4)	1.000 (25,4)	0.285 (7,2)
8403-0107-50	0.500 (12,7)	1.000 (25,4)	0.535 (13,6)

The suffix "50" is BeCu neoprene sponge. For other materials, replace the suffix "50" as follows: **54**-Neoprene sponge and Monel; **52**-Silicone sponge and beryllium copper; **55**-Silicone sponge and Monel; **60**-Neoprene sponge and tin plated copper clad steel; **61**-Silicone sponge and tin plated copper clad steel.

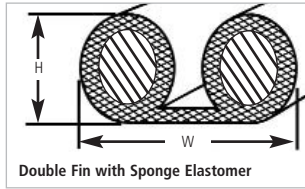
\* For part number ordering information on pressure-sensitive adhesive tape see page 1.4.

All dimensions shown are in inches (millimeters) unless otherwise specified.



## SIZE VS. TOLERANCE: DOUBLE FIN WITH SPONGE ELASTOMER

Size Range	Tolerance	
	Width	Height
0.130 to 0.380 (3,3 to 9,7)	± 0.030 (±0,8)	+ 0.060/- 0.030 (+1,5/-0,8)
0.390 to 0.050 (9,9 to 12,7)	+ 0.040/- 0.030 (+1,0/-0,8)	± 0.060 (±1,5)
0.510 to 1.000 (13,0 to 25,4)	+ 0.062/- 0.040 (+1,6/-1,0)	+ 0.090/- 0.060 (+2,3/-1,5)



For Size vs. Tolerance charts, dimensions measured under 4 oz. load (11,3 gms) with 0.750 dia. (19,1 mm) anvil.

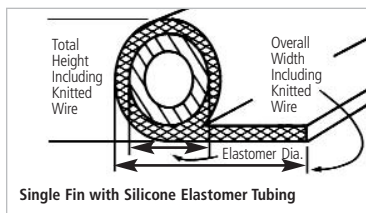
## DOUBLE FIN WITH SPONGE ELASTOMER

Laird Technologies Part No.*	Elastomer Diameter	Overall Width	Total Height
8412-0101-50	0.125 (3,2)	0.500 (12,7)	0.160 (4,1)
8412-0102-50	0.125 (3,2)	0.750 (19,1)	0.160 (4,1)
8412-0103-50	0.188 (4,8)	0.625 (15,9)	0.225 (5,7)
8412-0104-50	0.188 (4,8)	0.750 (19,1)	0.225 (5,7)
8412-0105-50	0.250 (6,4)	1.000 (25,4)	0.285 (7,2)
8412-0107-50	0.500 (12,7)	1.312 (33,3)	0.535 (13,6)

The suffix "50" is BeCu neoprene sponge. For other materials, replace the suffix "50" as follows: **54**-Neoprene sponge and Monel; **52**-Silicone sponge and beryllium copper; **55**-Silicone sponge and Monel; **60**- Neoprene sponge and tin plated copper clad steel; **61**-Silicone sponge and tin plated copper clad steel.

## SIZE VS. TOLERANCE: SINGLE FIN WITH SILICONE ELASTOMER TUBING

Size Range	Tolerance	
	Width	Height
0.130 to 0.380 (3,3 to 9,7)	± 0.030 (±0,8)	+ 0.060/- 0.030 (+1,5/-0,8)
0.390 to 0.050 (9,9 to 12,7)	+ 0.040/- 0.030 (+1,0/-0,8)	± 0.060 (±1,5)
0.510 to 1.000 (13,0 to 25,4)	+ 0.062/- 0.040 (+1,6/-1,0)	+ 0.090/- 0.060 (+2,3/-1,5)



For Size vs. Tolerance charts, dimensions measured under 4 oz. load (11,3 gms) with 0.750 dia. (19,1 mm) anvil.

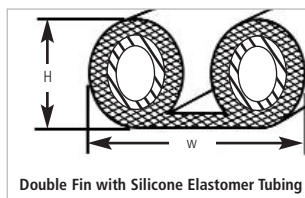
## SINGLE FIN WITH SILICONE ELASTOMER TUBING

Laird Technologies Part No.*	Tubing Diameter (O.D.)	Overall Width	Total Height Over Wire
8414-0101-64	0.125 (3,2)	0.500 (12,7)	0.160 (4,1)
8414-0102-64		0.750 (19,1)	
8414-0103-64	0.188 (4,8)	0.625 (15,9)	0.225 (5,7)
8414-0104-64		0.750 (19,1)	
8414-0105-64	0.250 (6,6)	0.750 (19,1)	0.285 (7,2)
8414-0106-64		1.000 (25,4)	
8414-0107-64	0.312 (7,9)	0.625 (15,9)	0.348 (8,8)
8414-0108-64		1.000 (25,4)	
8414-0109-64	0.375 (9,5)	0.750 (19,1)	0.410 (10,4)
8414-0110-64		1.120 (28,5)	
8414-0111-64	0.500 (12,7)	1.000 (25,4)	0.535 (13,6)
8414-0112-64		1.250 (31,8)	

The suffix "64" is BeCu with silicone elastomer tubing. For other materials, replace the suffix "64" as follows: **56**-Silicone elastomer tubing with Monel; **65**-Silicone elastomer tubing with tin plated copper clad steel.

## SIZE VS. TOLERANCE: DOUBLE FIN WITH SILICONE ELASTOMER TUBING

Size Range	Tolerance	
	Width	Height
0.130 to 0.380 (3,3 to 9,7)	± 0.030 (±0,8)	+ 0.060/- 0.030 (+1,5/-0,8)
0.390 to 0.050 (9,9 to 12,7)	+ 0.040/- 0.030 (+1,0/-0,8)	± 0.060 (±1,5)
0.510 to 1.000 (13,0 to 25,4)	+ 0.062/- 0.040 (+1,6/-1,0)	+ 0.090/- 0.060 (+2,3/-1,5)



For Size vs. Tolerance charts, dimensions measured under 4 oz. load (11,3 gms) with 0.750 dia. (19,1 mm) anvil.

## DOUBLE FIN WITH SILICONE ELASTOMER TUBING

Laird Technologies Part No.*	Tubing Diameter (O.D.)	Overall Width	Total Height Over Wire
8415-0101-64	0.125 (3,2)	0.500 (12,7)	0.160 (4,1)
8415-0102-64		0.750 (19,1)	
8415-0103-64	0.188 (4,8)	0.625 (15,9)	0.225 (5,7)
8415-0104-64		0.750 (19,1)	
8415-0105-64	0.250 (6,4)	0.750 (19,1)	0.285 (7,2)
8415-0106-64		1.000 (25,4)	
8415-0108-64	0.312 (7,9)	1.000 (25,4)	0.348 (8,8)
8415-0110-64		1.120 (28,5)	
8415-0112-64	0.500 (12,7)	1.250 (31,8)	0.535 (13,6)

The suffix "64" is BeCu with silicone elastomer tubing. For other materials, replace the suffix "64" as follows: **56**-Silicone elastomer tubing with Monel; **65**-Silicone elastomer tubing with tin plated copper clad steel.

\* For part number ordering information on pressure-sensitive adhesive tape see page 1.4.

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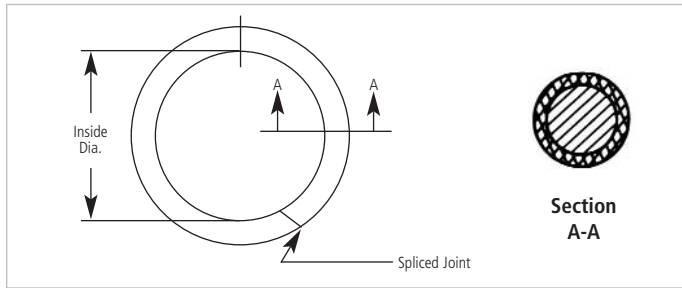


## Fabricated Elastomer Core Gaskets

The fabricated gaskets shown below can be provided to meet specific enclosure size and mounting criteria.

Figures 1 and 2 represent standard elastomer core construction. Please consult Laird Technologies engineering department at 1-800-843-4556 for elastomer core rectangular gaskets.

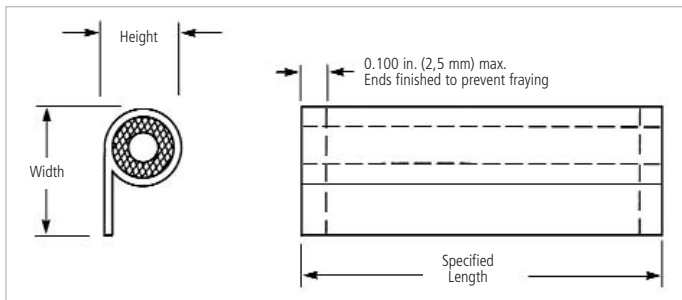
**FIGURE 1. O-RING CONSTRUCTION**



## TOLERANCE

Diameter Size Range	Tolerance
2.0 to 4.0 (50.8 to 101.6)	± 0.020 (±0.5)
4.0 to 8.0 (101.6 to 203.2)	± 0.030 (±0.8)
8.0 to 12.0 (203.2 to 304.8)	± 0.046 (±1.2)
12.0 to 18.0 (304.8 to 457.2)	± 0.062 (±1.6)

**FIGURE 2. CUT-TO-LENGTH**



## TOLERANCE ON LENGTH

Cut-to-Length Size Range	Tolerance
1.0 to 4.0 (25.4 to 101.6)	± 0.060 (±1.5)
4.0 to 8.0 (101.6 to 203.2)	± 0.060 (±1.5)
8.0 to 12.0 (203.2 to 304.8)	± 0.093 (±2.4)
12.0 to 18.0 (304.8 to 457.2)	± 0.125 (±3.2)
18.0 to 24.0 (457.2 to 609.6)	± 0.250 (±6.4)
24.0 to 30.0 (609.6 to 762.0)	+ 0.500/- 0.250 (+12.7/-6.4)
30.0 to 60.0 (762.0 to 1524.0)	+ 1.00/- 0.250 (+25.4/-6.4)
over 60.0 (1524.0)	+ 2.00/- 0.250 (+50.8/-6.4)