

METALKLIP® Clip-On EMI Gasket



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Chomerics' METALKLIP gasketing is a simple, quick means of mounting an EMI gasket onto 15-20 gauge sheet metal enclosure doors or frames. EMI shielding is provided by either a carbon-filled silicone strip or by monel (nickel-copper alloy) over silicone strip. A non-standard alternative is Ferrex* wire over neoprene. The gasket is secured in a corrosion-resistant, stainless steel spring clip. No holes or fasteners are required for installation. Integral sharp teeth on the clip bite through paint or surface oxides to provide electrical continuity from gasket to chassis.

Material Selection

A variety of EMI gasket materials are available to accommodate a full range of EMI shielding performance requirements. Standard choices

include a carbon-filled silicone P-strip or finned monel mesh (nickel-copper alloy) over hollow silicone tubing.

For added speed and convenience, use of Chomerics' CHO-MASK® II EMI foil tape with peel-off mask eliminates the necessity to plate the cabinet before painting. When the mask is removed following painting, the conductive foil tape below becomes the mating surface for the METALKLIP gasket.

Ordering Procedure

Standard 8-foot (244 cm) lengths:
Order by part number from Table 2.

Custom lengths or materials:
Custom lengths and/or finished lengths are available. Chomerics also provides a flat strip stainless steel for mechanical attachment. Contact Chomerics' Inside Sales Department with details and a custom part number will be assigned.

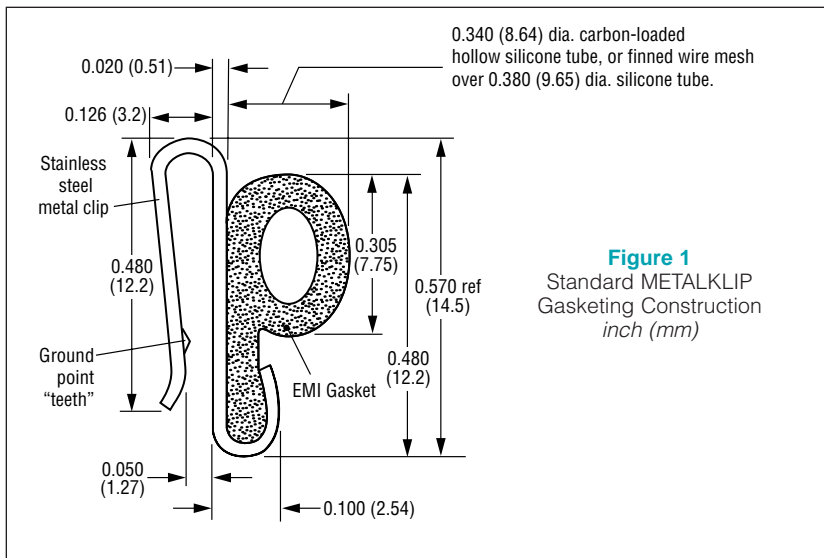


Figure 1
Standard METALKLIP Gasketing Construction
inch (mm)

Table 1

SPECIFICATIONS		
Carbon-Filled Silicone	Value	Test Method
Hardness (Shore A ±5)	65	ASTM D2240
Resistivity (ohm)	10 max.	ASTM D991
Tensile Strength psi (MPa), min.	400 (2.76)	ASTM D412
Elongation (percent)	150 min.	ASTM D412
Tear Strength lb/in (kN/m), min.	50 (8.76)	ASTM D624
Specific Gravity	1.30 ±.03	ASTM D1418
Temperature Range, °F (°C)	-67 to 400 (-55 to 200)	—
Color	Black	—
Mesh Over Core		
Monel Wire	0.0035 in. (0.09 mm) diameter per QQ-N-281, 2 layers.	
Silicone Tube	ZZ-R-765	
Clip	Stainless steel, 0.02 in. (0.51 mm) thick, series 302/304.	

Table 2

METALKLIP GASKETS		
Core Dia.	Wire	Part No.
0.340 (8.64) Carbon-silicone	—	17-0301-0008-34
0.380 (9.65) Silicone tube	Monel	17-0303-0108-37

* Ferrex® is Chomerics' tin-plated, copper-clad steel wire per ASTM B-520. ASTM (QQ-W-343) tin-plate, 2-3% by weight; ASTM B-227 copper-cladding 30-40% by weight; SAE 1010 steel wire, balance by weight.

For complete information, request Technical Bulletin Number **165**.

WARNING: Handle with care. METALKLIP edges when cut are sharp and can cause lacerations or puncture wounds.

(mm dimensions in parentheses)