



## OHMERICS Compound# F1018

### Silver Plated Nickel Filled Fluorosilicone EMI RFI Shielding Conductive Elastomer

This compound provides very high shielding effectiveness but is susceptible to corrosion. This material should not be used in tropical environments. Please contact [engineering@marcorubber.com](mailto:engineering@marcorubber.com) for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

#### Features:

- High Shielding effectiveness
- Excellent moisture seal
- Many profiles and shapes are available
- Excellent material to be used in the presence of hydrocarbons

#### Limitations:

- Material will have corrosion in a salt air environment
- Poor abrasion resistance
- Not to be used in an NBC washdown

#### TYPICAL PHYSICAL PROPERTIES

Typical Use or Specification	Commercial/Military	
Elastomer Binder	Fluorosilicone	
Conductive Filler	Silver Plated Nickel	
Color	Tan/Blue	
ORIGINAL PROPERTIES	Test Procedure	Typical Value
Durometer, Shore A	ASTM D2240	70
Tensile Strength, Min., psi	ASTM D412	180
Ultimate Elongation, Min., %	ASTM D412	60
Specific Gravity, ASTM D297	ASTM D792	4.4
Compression Set, % (70 hrs. @ 100°C)	ASTM D395	30
Compression/Deflection %	ASTM D575	3.5
Tear Strength, Min., lbs/in	ASTM D624	35
Operating Temperature Range °C	ASTM D1329	-55 to +160
Volume Resistivity, Ohm-cm	Mil-DTL 83528	0.012
Shielding Effectiveness, ASTM D4935, 100 MHz-10 GHz (E-field) db	Mil-DTL 83528	115

This information is to the best of our knowledge accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It's the customer's responsibility to evaluate parts prior to use.