Request a Quote

MARCO RUBBER

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ΩHMERICS®
EMI RFI Shielding Conductive Elastomers

ΩHMERICS Compound# F1014

Silver Plated Copper 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 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
- Meets most of the military's demanding requirements
- 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	MIL-DTL-83528 Type C	
Elastomer Binder	Fluorosilicone	
Conductive Filler	Silver Plated Copper	
Color	Tan/Blue	
ORIGINAL PROPERTIES	**Test Procedure**	**Typical Value**
Durometer, Shore A	ASTM D2240	75
Tensile Strength, Min., psi	ASTM D412	180
Ultimate Elongation, Min., %	ASTM D412	100
Specific Gravity, ASTM D297	ASTM D792	4.0
Compression Set, % (70 hrs. @ 100°C)	ASTM D395	35
Compression/Deflection %	ASTM D575	3.5
Tear Strength, Min., lbs/in	ASTM D624	35
Operating Temperature Range °C	ASTM D1329	-55 to +125
Volume Resistivity, Ohm-cm	Mil-DTL 83528	0.01
Shielding Effectiveness, ASTM D4935, 100 MHz-10 GHz (E-field) db	Mil-DTL 83528	115 to 120