

# Silver / Nickel Conductive Fluorosilicone Elastomer

The following is a relative measurement of the resistance and shielding effectiveness properties for Silver plated Nickel conductive fluorosilicone elastomer, tested in accordance with the procedures and requirements outlined in United States military specification MIL-DTL-83528.

Electrical Specifications	Tolerance	Test Method	Silver Aluminum Fluorosilicone Elastomer (Ohm/cm)
Volume Resistivity	Maximum	MIL-DTL-83528 (PARA 4.6.11)	0.012
Shielding Effectiveness (Frequencies)	Minimum	MIL-DTL-83528	<b>Silver / Nickel Elastomer (dB)</b>
100MHz (E-Field)	Minimum	MIL-DTL-83528	120
500 MHz (E-Field)	Minimum	MIL-DTL-83528	120
2 GHz (Plane Wave)	Minimum	MIL-DTL-83528	115
10 GHz (Plane Wave)	Minimum	MIL-DTL-83528	110

## Properties (Range of general specifications for Silver / Nickel Elastomer)

(Shore A)	Tensile (psi min.)	Elongation (min./max.)	Tear (#/in)	Volume Resistivity ohm cm	Specific Gravity
70	180	60/260	35	0.012	4.4

This material is tested to the MIL-DTL 83528, specification.

**Application:** The surface that this material is to be applied to must be conductive, meaning no non-conductive paint, oils, or coatings. If a non-conductive surface is present on the mating or mounting surface the conductive elastomer, shielding effectiveness will be greatly degraded.