

Silver / Nickel Conductive Silicone Elastomer (Type L)

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

Electrical Specifications	Tolerance	Test Method	Silver Nickel Silicone Elastomer (Ohm/cm)
Volume Resistivity	Maximum	MIL-DTL-83528 (PARA 4.6.11)	0.005
Shielding Effectiveness (Frequencies)	Minimum	MIL-DTL-83528	Silver / Nickel Elastomer (dB)
100MHz (E-Field)	Minimum	MIL-DTL-83528	>100
500 MHz (E-Field)	Minimum	MIL-DTL-83528	>100
2 GHz (Plane Wave)	Minimum	MIL-DTL-83528	>100
10 GHz (Plane Wave)	Minimum	MIL-DTL-83528	>100

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

(Shore A)	Tensile (psi min.)	Elongation (min./max.)	Tear (lb./in)	Volume Resistivity ohm cm	Specific Gravity
75	200	100 - 300	30	0.005	3.48 - 4.52

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.