CONSTANT CONDUCTIVE ELASTOMERS
Silicone silver plated aluminum

Silicone / Fluorosilicone profiles are loaded with a variety of highly conductive particles providing superior EMI/RFI shielding performance combined with excellent environmental sealing.

It is recommended to use fluorosilicone as elastomer if the conductive elastomer should be resistant against aggressive substances like fuel oils and kerosene.

Silver plated aluminum is an excellent grade high performance material widely used for higher frequency applications.

- Filler material: Silver plated aluminum (AGAL)
- Conductive filler ensures galvanic compatability
- Wide variety of profiles as standard
- Customer-specific lenghts, cross-section designs and pasted O-rings available
- Low contact resistance between mating surfaces
- Fluorosilicone for harsh environments: fuel oils and solvents

RoHS ✓ REACH ✓ 12 13 REEL

PRODUCT SPECIFICATIONS

PROPERTY		VALUE / TOLERANCE		TEST METHOD
Conductive filler material		Silver plated aluminum (AGAL)		-
Basic material		Silicone	Fluorosilicone	-
Hardness		65 Shore A ± 5	70 Shore A ± 5	ASTM D2240
Volume resistivity		0,008 Ω*cm	0,01 Ω*cm	ASTM D991
Elongation (min)		110 %	110 %	ASTM D412
Tear strength		5,45 N/mm	6,15 N/mm	ASTM D624
Specific gravity		2,0 g/cm³ ± 0,25%	2,0 g/cm³ ± 0,1%	ASTM D792
Compression set (72h @ 100°C)		Max. 30,0 %	Max. 30,0 %	ASTM D395
Tensile strength (min)		1,7 MPa	1,6 MPa	ASTM D412
Operating temperature		-55 - 160°C	-55 – 160 °C	-
Shielding Effectiveness	10 MHz	111 dB	114 dB	MIL-DTL 83528 C
	100 MHz	120 dB	122 dB	
	400 MHz	120 dB	118 dB	
	1 GHz	121 dB	121 dB	
	2 GHz	119 dB	123 dB	
	6 GHz	115 dB	109 dB	
	10 GHz	112 dB	114 dB	
	18 GHz	105 dB	103 dB	