CONSTANT CONDUCTIVE ELASTOMERS
Silicone silver plated copper

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 copper offers excellent RFI/EMI shielding performance across the frequency spectrum.

- Filler material: Silver plated copper (AGCU)
- 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 copper (AGCU)		-
Basic material		Silicone	Fluorosilicone	-
Hardness		65 Shore A ± 5	65 Shore A ± 5	ASTM D2240
Volume resistivity		0,005 Ω*cm	0,005 Ω*cm	ASTM D991
Elongation (min)		110 %	110 %	ASTM D412
Tear strength		7,00 N/mm	7,05 N/mm	ASTM D624
Specific gravity		3,5 g/cm³ ± 0,25%	4,0 g/cm³ ± 0,25%	ASTM D792
Compression set (72h @ 100°C)		Max. 30,0 %	Max. 30,0 %	ASTM D395
Tensile strength (min)		2,1 MPa	1,5 MPa	ASTM D412
Operating temperature		-55 - 125°C	-55 – 125 °C	-
Shielding Effectiveness	10 MHz	115 dB	116 dB	MIL-DTL 83528 C
	100 MHz	122 dB	125 dB	
	400 MHz	119 dB	118 dB	
	1 GHz	123 dB	124 dB	
	2 GHz	122 dB	121 dB	
	6 GHz	116 dB	117 dB	
	10 GHz	115 dB	115 dB	
	18 GHz	104 dB	104 dB	