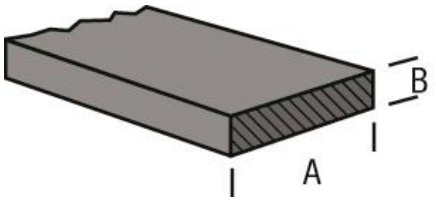
CONSTANT CONDUCTIVE ELASTOMERS
SRE-SERIES silver plated aluminium

Silicone / Fluorosilicone rectangular 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 aluminium is an excellent grade high performance material widely used for higher frequency applications.

- **Filler material: Silver plated aluminium (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 aluminium (AGAL)		-
Basic material	Silicone	Fluorosilicone	-
Hardness	65 Shore A ± 7	70 Shore A ± 7	ASTM D2240
Volume resistivity	0,008 Ω-cm	0,012 Ω-cm	MIL-DTL 83528 C
Elongation (min)	100 %	60 %	ASTM D412
Tear strength	5,25 N/mm	6,10 N/mm	ASTM D624
Specific gravity	2,0 g/cm³ ± 13 %	2,0 g/cm³ ± 13 %	ASTM D792
Compression set	32,0 % (70h @ 100°C)	30,0 % (70h @ 100°C)	ASTM D395
Tensile strength (min)	1,38 MPa	1,24 MPa	ASTM D412
Operating temperature	-55 – 160 °C	-55 – 160 °C	-
Colour	Tan	Light green	-
Width (A)	1,60 – 25,40 mm		-
Height (B)	1,07 – 6,35 mm		-

BUILDING AN ITEM NUMBER

SRE-WxH-AGAL

Silicone Rectangular Profile	
xx	Width (mm)
xx	Height (mm)
Silver plated aluminium	

Standard options

EXAMPLE

SRE-1,60x1,07-AGAL
Silicone rectangular profile; width: 1,60 mm; height: 1,07 mm; filler material: Silver plated aluminium

FSRE-WxH-AGAL

Fluorosilicone Rectangular Profile	
xx	Width (mm)
xx	Height (mm)
Silver plated aluminium	

Standard options

EXAMPLE

FSRE-1,60x1,07-AGAL
Fluorosilicone rectangular profile; width: 1,60 mm; height: 1,07 mm; filler material: Silver plated aluminium

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TOLERANCES

Extruded material (mm)	TOLERANCE (mm)
< 2,0	± 0,10
2,0 – 5,0	± 0,15
> 5,0	± 0,20

SHIELDING EFFECTIVENESS (according to MIL-DTL 83528 C)

	SILICONE	FLUOROSILICONE
20 MHz	108 dB	106 dB
40 MHz	106 dB	103 dB
60 MHz	109 dB	104 dB
80 MHz	118 dB	111 dB
100 MHz	109 dB	108 dB
200 MHz	117 dB	112 dB
400 MHz	123 dB	122 dB
600 MHz	114 dB	108 dB
800 MHz	120 dB	116 dB

	SILICONE	FLUOROSILICONE
1 GHz	114 dB	109 dB
2 GHz	101 dB	100 dB
4 GHz	107 dB	105 dB
6 GHz	105 dB	113 dB
8 GHz	105 dB	117 dB
10 GHz	102 dB	115 dB

Modifications and errors excepted. The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verifications and testings to determine the suitability for their own particular purpose of any information or products referred to herein.