

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

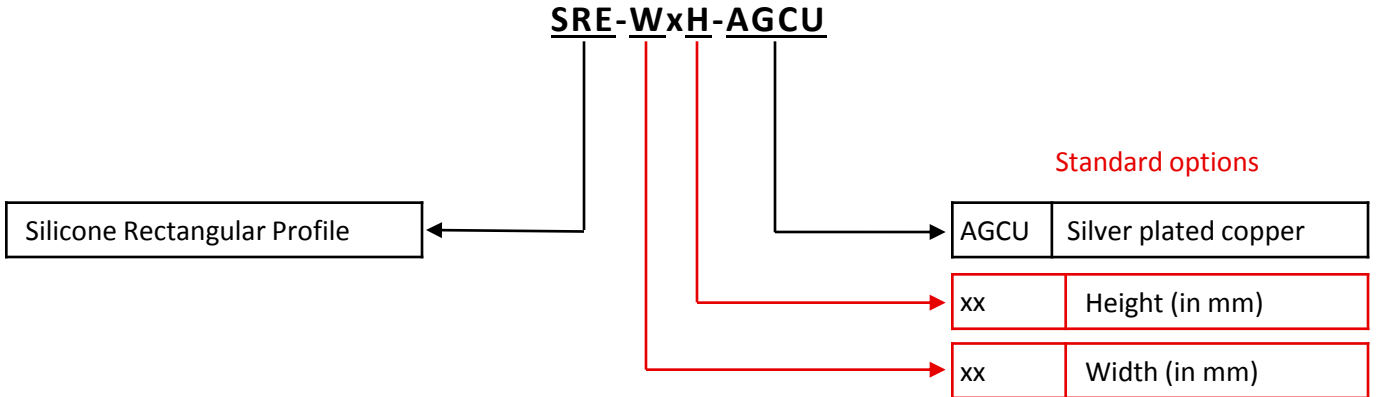


### Features

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

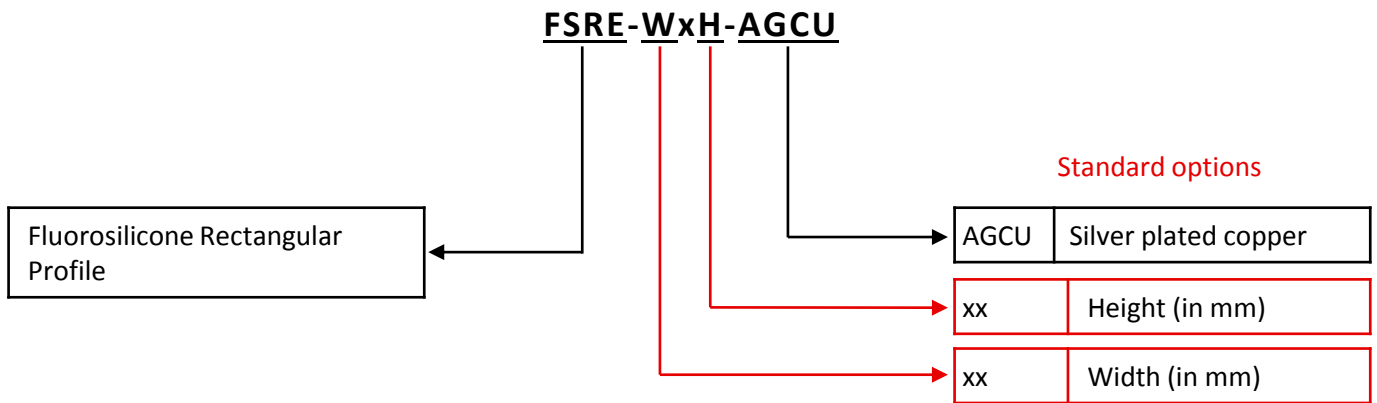
Property	Value		Unit	Test method
Conductive filler material	Silver plated copper (AGCU)		-	-
Basic material	Silicone	Fluorosilicone	-	-
Hardness	65 ± 5	65 ± 5	Shore A	ASTM D2240
Volume resistivity	0,004	0,004	Ω-cm	MIL-DTL 83528 C
Elongation	480	220	%	ASTM D412
Tear strength	8,7	8,7	N/mm	ASTM D624
Specific gravity	3,5 ± 0,1	4,0 ± 0,1	-	ASTM D792
Compression set	29,0	21,0	70h @ 100°C (%)	ASTM D395
Tensile strength	50,7	36,7	N/mm	ASTM D412
Operating temperature	-55 – 125	-55 – 125	°C	-
Colour	Tan	Green	-	-
Width (A)	1,60 – 25,40		mm	-
Height (B)	1,07 – 6,35		mm	-

### BUILDING AN ITEM NUMBER



**Example:** SRE-1,60x1,07-AGCU

Silicone rectangular profile; width: 1,60 mm; height: 1,07 mm; filler material: Silver plated copper



**Example:** FSRE-1,60x1,07-AGCU

Fluorosilicone rectangular profile; width: 1,60 mm; height: 1,07 mm; filler material: Silver plated copper

**TOLERANCES (in mm)**

Extruded material	Tolerance
< 2,0	± 0,10
2,0 – 5,0	± 0,15
> 5,0	± 0,20

**SHIELDING EFFECTIVENESS in dB (according to MIL-DTL 83528 C)**

	Silicone	Fluorosilicone		Silicone	Fluorosilicone
20 MHz	106	90	1 GHz	112	111
40 MHz	106	106	2 GHz	105	104
60 MHz	106	106	4 GHz	113	102
80 MHz	112	112	6 GHz	100	104
100 MHz	107	106	8 GHz	106	112
200 MHz	114	115	10 GHz	107	115
400 MHz	111	114			
600 MHz	105	108			
800 MHz	116	112			