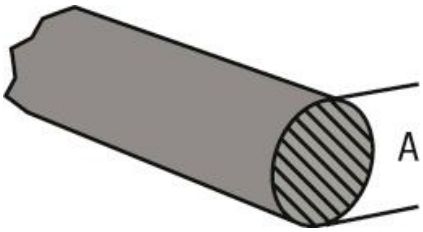
CONSTANT CONDUCTIVE ELASTOMERS
SRV-SERIES silver plated copper

Silicone / Fluorosilicone solid round cords 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 ± 7	65 Shore A ± 7	ASTM D2240
Volume resistivity	0,004 Ω-cm	0,01 Ω-cm	MIL-DTL 83528 C
Elongation (min)	100 %	100 %	ASTM D412
Tear strength	4,4 N/mm	6,1 N/mm	ASTM D624
Specific gravity	3,5 g/cm³ ± 13 %	4,0 g/cm³ ± 13 %	ASTM D792
Compression set	32,0 % (70h @ 100°C)	35,0 % (70h @ 100°C)	ASTM D395
Tensile strength (min)	1,38 MPa	1,24 MPa	ASTM D412
Operating temperature	-55 – 125 °C	-55 – 125 °C	-
Outer diameter range (A)	1,0 – 8,0 mm		-

BUILDING AN ITEM NUMBER

SRV-OD-AGCU

- SRV → Silicone Solid Round Cord
- OD → xx | Outer diameter (mm)
- AGCU → Silver plated copper

Standard options

EXAMPLE

SRV-2,5-AGCU
Silicone solid round cord; outer diameter: 2,5 mm; filler material: Silver plated copper

FSRV-OD-AGCU

- FSRV → Fluorosilicone Solid Round Cord
- OD → xx | Outer diameter (mm)
- AGCU → Silver plated copper

Standard options

EXAMPLE

FSRV-2,5-AGCU
Fluorosilicone solid round cord; outer diameter: 2,5 mm; filler material: Silver plated copper

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	106 dB	90 dB
40 MHz	106 dB	106 dB
60 MHz	106 dB	106 dB
80 MHz	112 dB	112 dB
100 MHz	107 dB	106 dB
200 MHz	114 dB	115 dB
400 MHz	111 dB	114 dB
600 MHz	105 dB	108 dB
800 MHz	116 dB	112 dB

	SILICONE	FLUOROSILICONE
1 GHz	112 dB	111 dB
2 GHz	105 dB	104 dB
4 GHz	113 dB	102 dB
6 GHz	100 dB	104 dB
8 GHz	106 dB	112 dB
10 GHz	107 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.