# CONSTANT CONDUCTIVE ELASTOMERS
## Silicone silver plated glass

**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 aluminium** is an excellent grade high performance material widely used for higher frequency applications.

- Filler material: Silver plated aluminium (AGGL)
- 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 glass (AGGL) | | - |
| Basic material | | Silicone | Fluorosilicone | - |
| Hardness | | 75 Shore A ± 5 | 75 Shore A ± 5 | ASTM D2240 |
| Volume resistivity | | 0,050 Ω*cm | 0,050 Ω*cm | MIL-G-83528 |
| Elongation (min) | | Min. 100 % | Min. 100 % | ASTM D412 |
| Tear strength | | N/A | N/A | - |
| Specific gravity | | 2,2 g/cm³ ± 0,25% | 2,2 g/cm³ ± 0,25% | ASTM D792 |
| Compression set (72h @ 100°C) | | Max. 60,0 % | Max. 60,0 % | ASTM D395 |
| Tensile strength (min) | | 1,03 MPa | 1,03 Mpa | ASTM D412 |
| Operating temperature | | -55 - 160°C | -55 – 160 °C | - |
| Shielding Effectiveness | 10 MHz | N/A | N/A | MIL-DTL 83528 C |
| | 100 MHz | 95 dB | 95 dB | |
| | 400 MHz | N/A | N/A | |
| | 1 GHz | N/A | N/A | |
| | 2 GHz | 95 dB | 95 dB | |
| | 6 GHz | N/A | N/A | |
| | 10 GHz | 95 dB | 95 dB | |
| | 18 GHz | N/A | N/A | |