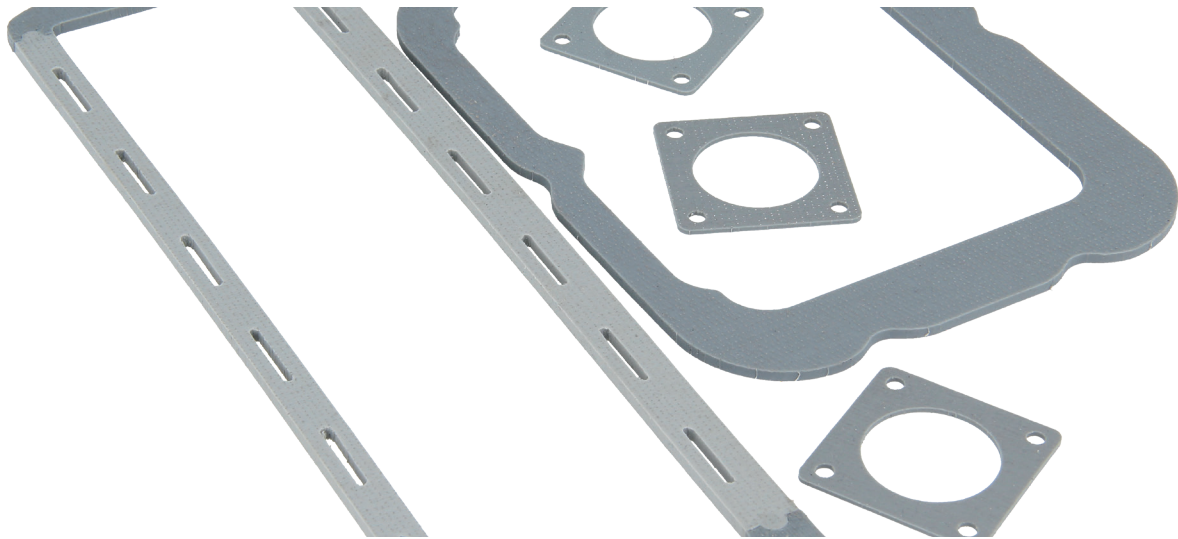


ORIENTED WIRE SHIELD 5711 - 5722

Silicone sheet material with oriented wires for EMI shielding and IP sealing. Can be cut into complicated shapes by CNC knife cutting, laser cutting and/or water jet cutting, or die-cut



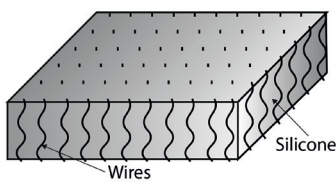
Oriented wire shield 5711- 5722 is a composite gasket material consisting of a large number of small wires embedded and bonded in solid or sponge silicone, or fluorosilicone elastomer for oil resistance.

The wires provide excellent conductivity to establish EMI / RFI shielding.

The material is used in military, industrial and commercial products requiring EMI suppression, grounding, or static discharge. It is very suitable for applications where an environmental or pressure seal is required.

The sponge version is used in cases where the severe joint is uneven, or if lower closure forces or greater compressibility are required.

TECHNICAL DRAWING



PART NUMBERS

Material	Part number
Solid silicone with monel wire	5711
Solid silicone with aluminium wire	5712
Solid fluorosilicone with monel wire	5713
Sponge silicone with monel wire	5721
Sponge silicone with aluminium wire	5722

DIMENSIONS

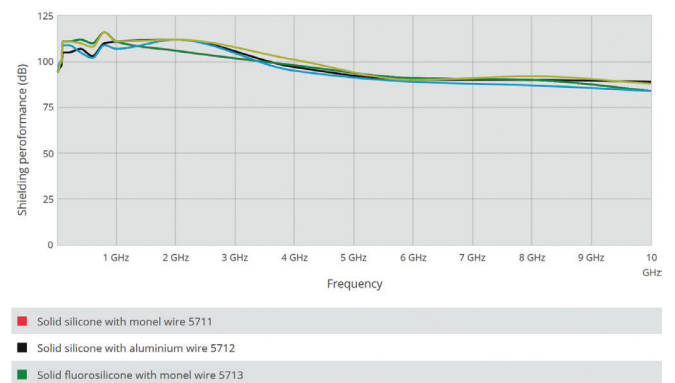
We produce sheets of max. 228 x 900 mm, from which we can then cut gaskets without interruptions. Bigger gaskets can be welded/joined together in order to prevent waste of material.

Custom compositions are available on request, simply by sending a drawing with the desired dimensions to our email address info@hollandshielding.com.

BENEFITS

- Temperatures up to 220 °C
- High shielding performance
- Water sealing up to 10 meters
- Pressure resistant
- Salt spray / chemical resistant
- Fluorosilicone rubber for fuel/oil resistance
- Supplied as sheets, strips or die-cuts

SHIELDING PERFORMANCE* (DB)



» ORIENTED WIRE SHIELD 5711 - 5722

TECHNICAL SPECIFICATIONS

Material	Solid silicone with monel wire	Solid silicone with aluminium	Solid fluorosilicone with monel wire	Sponge silicone with monel wire	Sponge silicone with aluminium wire
Part number	5711	5712	5713	5721	5722
Color	Gray	Gray	Blue	Gray	Gray
Wire count/ sq. inch	900 +/- 15%	900 +/- 15%	900 +/- 15%	600 +/- 15%	600 +/- 15%
Elastomer Type	Silicone	Silicone	Fluorosilicone	Silicone Sponge	Silicone Sponge
Wire Type	Monel	Aluminium	Monel	Monel	Aluminium
Elastomer Specification	ZZ-R-765 2b	ZZ-R-765 2b	Mil-R-25988 G 50	AMS 3195	AMS 3195
Closing force (psi)	25-100	25-100	25-100	15-75	15-75
Fuel/solvent resistant	No	No	Yes	No	No
Temperature (°C)	-65°C to 200°C	-65°C to 200°C	-65°C to 200°C	-65°C to 200°C	-65°C to 200°C
Wire Diameter	0.114mm Ø	0.127mm Ø	0.114mm Ø	0.114mm Ø	0.127mm Ø
Specification	BS 3075 NA13 QQ-N-281-B	BS EN 537 pt3 Alloy 5056	BS 3075 NA13 QQ-N-281-B	BS 3075 NA13 QQ-N-281-B	BS EN 537 pt3 Alloy 5056

TECHNICAL SPECIFICATIONS

Elastomer	Silicone or fluorosilicone
Conductive filler	Monel wire, aluminium wire
ROHS compliance	Yes
Corrosion resistance	Yes
UV resistance	Yes
Oil resistance	Fluorosilicone type only
Fuel resistance	Fluorosilicone type only
IP rating	Yes
Shore A	35-40

CONDUCTIVE ADHESIVE (CONDUCTIVE PSA)

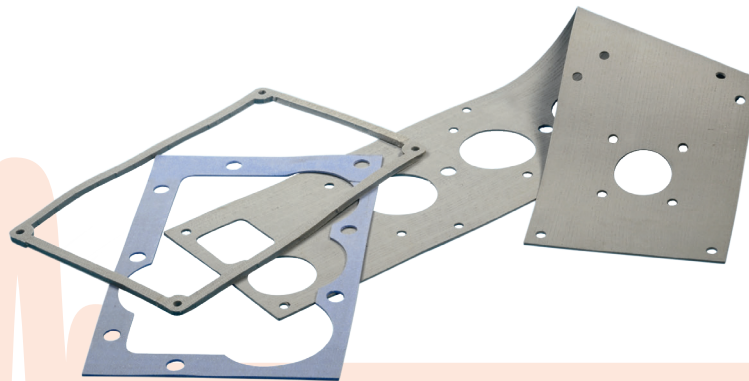
Property	Unit	Outcome	Test method
Surface resistance	Ω/sq	<0.10	MIL-DTL-83528C
Adhesive strength	G/25mm	850	ASTM D 3330
Conductive PSA	-	Acrylic + Ni	-
Liner	-	Paper, film	-

AVAILABLE THICKNESSES

0.81, 1.13, 1.38, 1.57, 2.40, 3.18, 3.96, 4.78, 6.35mm.
Other thicknesses on request. Tolerance +- 0.25 mm.

ORDER EXAMPLE

Part number	Width (mm)	Length (mm)	Thickness
5711 : Solid silicone with Monel wires 5712 : Solid silicone with aluminium wires 5713 : Solid fluorosilicone with Monel wires 5721 : Sponge silicone with Monel wires 5722 : Sponge silicone with aluminium wires	Specify the desired width in mm	Specify the desired length in mm	0.81 : 0.81mm thick 1.13 : 1.13mm thick 1.38 : 1.38mm thick 1.57 : 1.57mm thick 2.40 : 2.40mm thick 3.18 : 3.18mm thick 3.96 : 3.96mm thick 4.78 : 4.78mm thick 6.35 : 6.35mm thick



*Notice

Information supplied in these data sheets is based on independent and laboratory tests which Holland Shielding Systems BV, hereafter referred to as HSS believes to be reliable. HSS has no control over the design of customer's product which incorporates products, therefore it is the responsibility of the user to determine the suitability for his particular application and we recommend that the user make his own test to determine suitability.

The product described in this data sheet shall be of standard quality, however the products are sold without warranty of fitness for a particular purpose, either expressed or implied, except to the extent expressly stated on HSS invoice, quotation or order acknowledgment. HSS does not warrant that products described in this data sheet will be free of conflict with existing or future patents of third parties. All risks of lack of fitness, patent infringement and the like are assumed by the user.