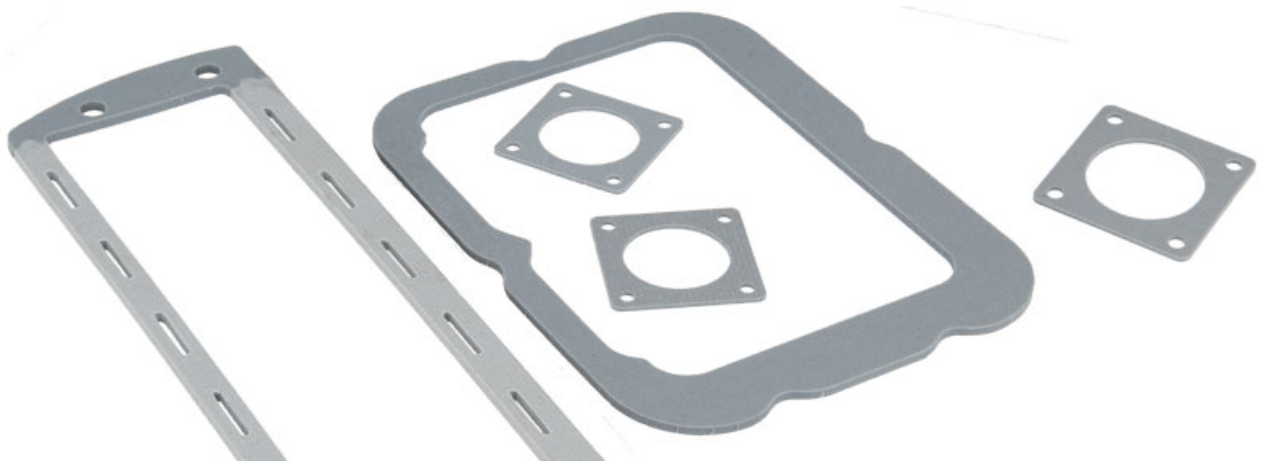


Oriented wire shield



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 joint is very uneven, or if lower closure forces or greater compressibility are required.

Dimension

We produce sheets of 150 x 900mm, 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

Available thicknesses

0.81, 1.13, 1.38, 1.57, 2.40, 3.18, 3.96, 4.78, 6.35 mm.

Other thicknesses on request.

Oriented wire shield

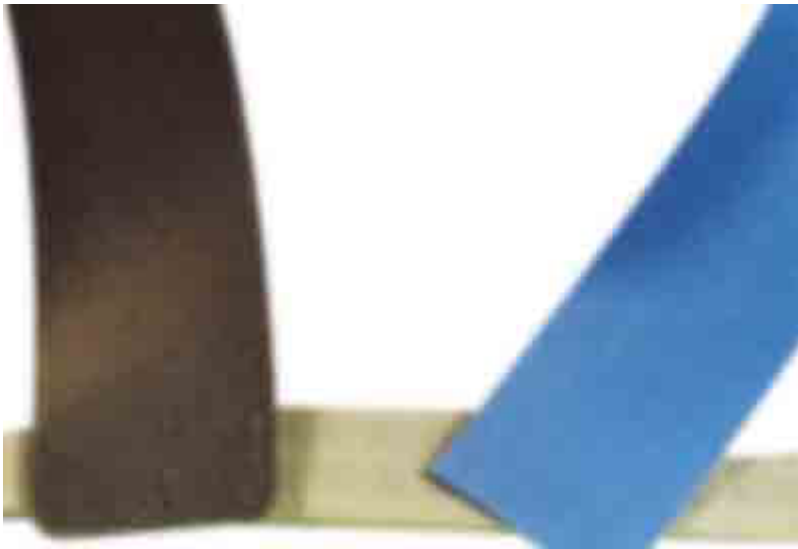


Oriented wire shield can be CNC cut according to your drawing into any desired shape and size



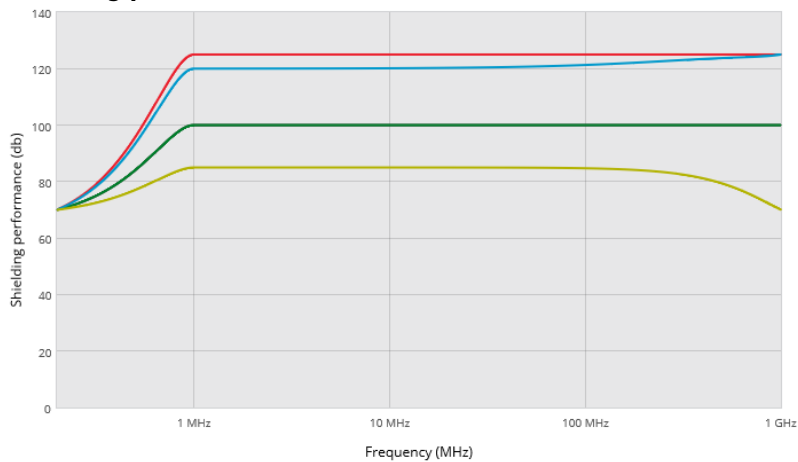
Oriented wire shield can be supplied on a roll of 900 mm length

Oriented wire shield



Oriented wire shield can be supplied with various types of metal wires in order to prevent galvanic corrosion

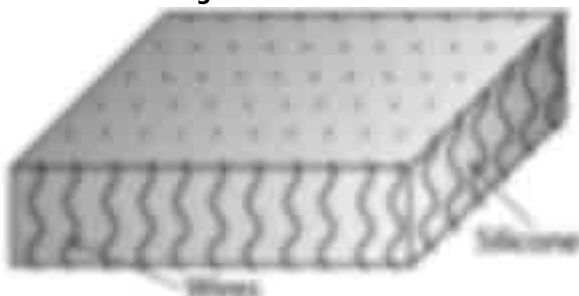
Shielding performance



- 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

Please note : These values are measured under laboratory conditions. Results may vary in other situations; please read our Guarantee.

Technical drawing



Oriented wire shield

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

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	900	900	900	900
Compression set	25%	25%	25%	25%	25%
Closing force (PSI)	25-100	25-100	25-100	5-50	5-50
Fuel/solvent resistant	No	No	Yes	No	No
Temperature (°C)	-65/200	-65/200	-55/200	-65/200	-65/200

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

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	-

Produkt anfragen

Oriented wire shield

Series	Width (mm)	Length (mm)	Thickness (+/- 0.25 mm)
Select an option:			Select an option:
5711 : Solid silicone with Monel wires	Specify the desired width in mm	Specify the desired length in mm	0.81 : 0.81 mm thick
5712 : Solid silicone with aluminium wires			1.13 : 1.13 mm thick
5713 : Solid fluorsilicone with Monel wires			1.38 : 1.38 mm thick
5721 : Sponge silicone with Monel wires			1.57 : 1.57 mm thick
5722 : Sponge silicone with aluminium wires			2.40 : 2.40 mm thick
			3.18 : 3.18 mm thick
			3.96 : 3.96 mm thick
			4.78 : 4.78 mm thick
			6.35 : 6.35 mm thick

* Note: The **red** blocks are required