

Gaskets With Fluid Seal



Knitex® gaskets with fluid seal are designed to provide high levels of EMI shielding effectiveness combined with the ability to provide a fluid and dust seal. Constructed from either a knitted all metal wire mesh resilient gasket or knitted wire elastomer covered gasket attached to an elastomeric section to give the fluid and dust seal. It is available in two styles as illustrated in the tables below. The standard material for the fluid seal is neoprene, which can be adhesive backed for ease of installation, or as an alternative silicone sponge is also available.



Application

Shielding gaskets with fluid seals are frequently used to seal enclosure lids and doors, removable cover plates and interface gaskets for vent panels and windows. Compression should be limited to between 25% and 35% of gasket nominal height and compression stops can be fitted if required. When installing the gasket, the neoprene or silicone seal should be facing the weather edge of the box or enclosure.

Materials of Construction - Wires

Knitex EMI shielding materials can be manufactured from any metal that can be drawn into a filament. However the majority of shielding requirements can be satisfied by using the materials listed in the table below.

Material	Wire Diameter	Material Ref.
Monel (BS 3075-NA13)	0.11 mm	MO
Tin Plated Copper Clad Steel (SN-FE-CU)	0.11 mm	SN-FE-CU
Stainless Steel (AISI 304)	0.11 mm	SS
Tinned Copper (BS 4109 with 0.7-1 micron tin plate)	0.11 mm	TC
Silver Clad Copper (BS 4190 with 0.7-1 micron silver cladding)	0.12 mm	SCC
Nickel Plated Copper	0.15 mm	NI-CU
Aluminium (ALMG5)	0.14 mm	AL
Copper (BS 4109)	0.12 mm	CO

Other materials are available to special order such as Phosphor Bronze and Brass.

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Materials of Construction - Elastomer

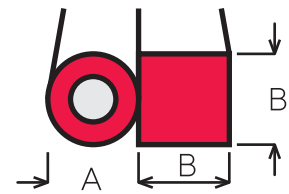
Material	Temperature Range	Colour
Neoprene Sponge	-30°C to +100°C	Black
Silicone Sponge	-60°C to +200°C	Cream
Silicone Tube	-60°C to +260°C	Grey

General tolerances on gasket dimensions +/- 0.8mm. Further details on application.

Circular Section EMI/RFI Gasket with Fluid Seal

EMI/RFI Shielding Gasket Core	Neoprene Fluid Seal	Elastomer Core Material	Part Number
A (mm)*	B (mm)	-	-
3	3.5	Silicone Tube	8214
4	5	Silicone Tube	8211
5	6	Silicone Tube	8213

Core dimensions specified do not include thickness of mesh layers.

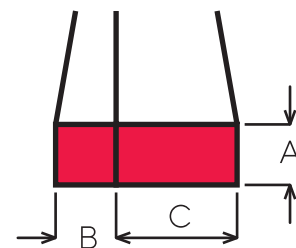


Circular Section EMI/RFI Gasket with Fluid Seal

All Metal Rectangular Section EMI/RFI Gasket with Fluid Seal

EMI/RFI Shielding Gasket Core Diameter		Neoprene Fluid Seal Gasket Dimension		Part Number
A (mm)	B (mm)	A (mm)	C (mm)	-
2	3	2	6	8751
2	3	2	9	8752
2	3	2	12	8753
2	3	2	15	8754
3	3	3	6	8755
3	3	3	9	8756
3	3	3	12	8757
3	3	3	15	8758
3	3	3	19	8759
3	4	3	6	8760
3	5	3	6	8761
3	6	3	6	8762
3	6	3	12	8763
3	6	3	19	8764
3	13	3	12	8765
5	3	5	6	8766
5	3	5	9	8767
5	3	5	12	8768
5	3	5	15	8769
5	6	5	15	8770
5	6	5	19	8771
6	3	6	6	8772
6	3	6	9	8773
6	3	6	12	8774
6	3	6	15	8775
6	6	6	19	8776
9	6	9	12	8777
9	6	9	15	8778
9	6	9	19	8779

General tolerances on gasket dimensions +/- 0.8mm. Further details on application.



All Metal Rectangular Section EMI/RFI Gasket with Fluid Seal

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Additional Information

Samples are available generally free of charge (please contact the sales department). Delivery lead times are quantity dependant but emergency deliveries can be organised within a few days or less. If a fabricated picture frame style gasket is required, please supply a detailed dimensioned drawing to enable us to quote for your requirements.

Ordering

To order, simply state the quantity required, part number, material reference, whether an adhesive back is required and if you have any special roll length or packaging requirements.

Example of how to order a standard Knitex gasket:

Gasket Type 8756 / AL = a 3mm thick x 3mm wide all metal aluminium gasket attached to a 3mm thick x 9mm wide neoprene sponge. (Gasket overall dimensions 3mm thick x 12mm wide). No adhesive backing on neoprene.

Quality Assurance

KnitMesh Technologies® is accredited to:
ISO9001:2008, ISO14001:2004, OHSAS18001:2007, PAS
99:2006 and ISO/TS 16949:2009



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