

Conductive Fabric-Over-Foam (FOF)

Product Overview

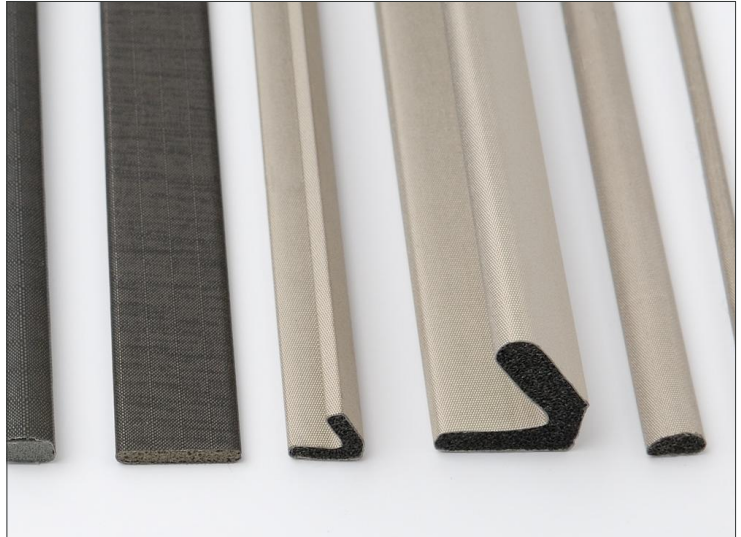
Uvox conductive fabric-over-foam (FOF) gaskets are used for EMI sealing of gaps in enclosures such as castings, pressed metal enclosures, electronic cabinets and conductive coated plastics.

Uvox FOF gaskets comprise an electrically-conductive fabric wrapped over a conformable sponge core. This combination enables low closure forces to be achieved compared to other EMI gasket systems.

The outer fabric is highly-conductive copper-nickel plated fine-weave polyester providing a high level of EM shielding. Typical surface resistivity is 0.08 to 0.1Ω/sq.

In addition, the fabric is highly resistant to abrasion and V-O certified.

We offer 1m lengths as standard, but custom lengths within the range, [0.003 m - 2 m] can also be specified.



Adhesive Options

- ▶ Standard acrylic - **AC**
- ▶ Electrically-conductive - **EC**
- ▶ Non-adhesive - **NA**

Applications

Uvox FOF gasket strips can be used for:

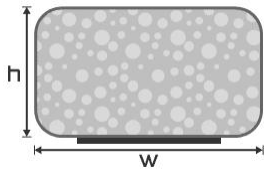
- ▶ Enclosure doors
- ▶ Access panels.
- ▶ Internal grounding contacts for low power and hand-held devices
- ▶ I/O and back-panel gaskets
- ▶ Perimeter grounding of EMI display windows, keypads and keyboards.

Properties

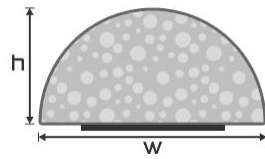
Physical and Electrical properties	
Cloth	100% woven polyester
Coating	Copper-Nickel
Gasket core	PU Foam
Shielding Effectiveness 40MHz to 1GHz	>88 dB (typical)
Surface resistivity	0.08 to 0.1 Ω/sq
Abrasion resistance	>100,000 cycles
Compression deflection	2.5N / 25mm (typical)
Compression set (50% compression for 22hrs at 20°C)	Max 6%
Adhesive strength (peel test to steel)	24.3N / 20mm
Flammability	UL94HF-1 or V-0
RoHS Compliant	SGS certified

Profiles

The profiles shown below are standard. On request, we can also supply custom profiles for specialised applications.


RECTANGULAR PROFILE

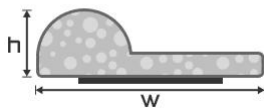
Product Code	Size [w x h] (mm)
1001	2.0 x 1.5
1002	2.0 x 2.0
1003	3.0 x 2.0
1004	4.0 x 2.0
1005	4.0 x 4.0
1006	4.8 x 3.2
1007	5.0 x 4.0
1008	5.0 x 5.0
1009	6.0 x 2.5
1010	6.0 x 6.0
1011	6.4 x 4.8
1012	7.0 x 2.0
1013	9.0 x 2.0
1014	8.0 x 4.0
1015	8.0 x 5.0
1016	8.0 x 12.0
1017	9.0 x 4.0
1018	9.0 x 6.0
1019	9.5 x 6.4
1020	9.5 x 9.5
1021	10.0 x 3.0
1022	10.0 x 9.0
1023	10.7 x 10.7
1024	12.7 x 6.4
1025	12.7 x 9.5
1026	15.0 x 2.0
1027	20.0 x 14.0
1028	25.0 x 20.0


'D' PROFILE

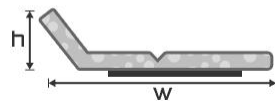
Product Code	Size [w x h] (mm)
2001	2.3 x 2.3
2002	23.0 x 3.2
2003	3.0 x 2.0
2004	3.0 x 3.5
2005	3.8 x 1.5
2006	3.8 x 3.0
2007	4.0 x 2.0
2008	6.0 x 2.0
2009	6.4 x 3.6
2010	6.5 x 6.0
2011	7.0 x 5.0
2012	8.0 x 10.0
2013	9.5 x 6.4
2014	10.0 x 2.0
2015	10.0 x 6.0
2016	10.0 x 7.5
2017	12.0 x 14.0
2018	18.0 x 15.0
2019	18.0 x 20.0


FLAT PROFILE

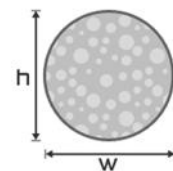
Product Code	Size [w x h] (mm)
3001	2.0 x 0.3
3002	2.0 x 0.8
3003	2.0 x 1.0
3004	2.0 x 1.2
3005	2.5 x 1.0
3006	3.0 x 0.7
3007	3.0 x 1.0
3008	3.0 x 1.2
3009	4.0 x 1.2
3010	5.0 x 1.0
3011	5.0 x 1.3
3012	6.0 x 1.8
3013	7.0 x 1.0
3014	7.0 x 1.2
3015	7.0 x 1.5
3016	7.0 x 1.8
3017	8.0 x 1.2
3018	9.0 x 1.5
3019	10.0 x 1.0
3020	10.0 x 1.2
3021	13.0 x 0.7
3022	13.0 x 1.3
3023	13.0 x 1.0
3024	13.0 x 1.5


'P' PROFILE

Product Code	Size [w x h] (mm)
4001	8.0 x 2.0
4002	8.0 x 4.0
4003	13.2 x 3.3

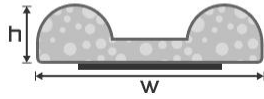

FLEX PROFILE

Product Code	Size [w x h] (mm)
5001	19.1 x 6.4

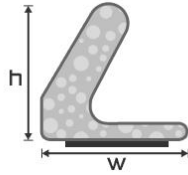

ROUND PROFILE

Product Code	Size [w x h] (mm)
6001	2.0 x 0.0
6002	2.5 x 0.0
6003	3.2 x 0.0
6004	11.0 x 0.0

Profiles Continued


DOUBLE 'D' PROFILE

Product Code	Size [w x h] (mm)
7001	9.7 x 2.8


'C' PROFILE

Product Code	Size [w x h] (mm)
8001	8.0 x 8.0
8002	10.7 x 9.8
8003	14.7 x 17.1

Cut Length Tolerances

Length	Tolerance
< 150 mm	± 0.6 mm
151 mm to 300 mm	± 0.9 mm
301 mm to 1000 mm	± 1.5 mm
1001 mm to 1800 mm	± 1.8 mm
> 1801 mm	± 2.0 mm

Product Selection Code

Product Name	Fabric-Over-Foam Gasket	FOF	-	3002	-	AC
Profile						
Adhesive Option	AC, EC or NA					

Above example: Flat profile 2.0 mm x 1.0 mm, Adhesive Coated, supplied in 1m lengths.

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T/DS/FOF/01004