



Elastomer Core Knitted Wire Mesh

Our KEC product, is a series of layers of knitted wire mesh over an elastomer core/centre such as EPDM, neoprene or silicone. Standard requirements usually consist of 2 layers of knitting over the elastomer core but small sections 1.5mm diameter requiring only 1 layer. Layers of knitted wire mesh vary from 2 layers up to a total of 7 layers in extreme circumstances where shielding is required for EMP. The knitted mesh is then formed into the selected profile making a continuous gasket strip which is flexible and compressible and which makes an excellent RFI/EMI/EMP gasket.



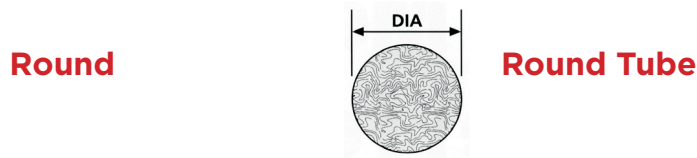
- CONDUCTIVE ELASTOMERS
- CONNECTOR GASKETS
- ORIENTED WIRES IN SILICONE
- CONDUCTIVE ADHESIVES
- FABRIC OVER FOAM

SELECT KNITTED WIRE MESH

How to order

Wire Code	Elastomer Core
Monel - 1	Silicone Sponge - 1
Aluminium - 2	Silicone Tube - 2
TCS - 3	Solid Silicone - 3
Stainless steel - 4	Solid Neoprene - 4
	Neoprene Sponge - 5
	Neoprene Tube - 6
Style	
Round - R	
Round Tube - RT	
Rectangular - REC	
Round with Fin - RWF	
Twin Round with Fin - TRWF	

For Example: KWM-2-TRWT-0064-00254 which is Aluminium wire in a twin round with fin profile with a 6.4mm diameter and 25.4mm width



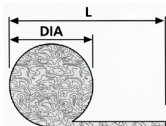
DIAMETER	PART NUMBER
1.6	R-0016
2.4	R-0024
3.2	R-0032
4.8	R-0048
6.4	R-0064
8.0	R-0080
9.5	R-0095
11.0	R-0110
12.7	R-0127
15.0	R-0150
19.1	R-0191
25.4	R-0254

DIAMETER	PART NUMBER
2.4 x 1.6	RT-0024-0016
3.2 x 1.6	RT-0032-0016
4.8 x 3.2	RT-0048-0032
6.4 x 3.2	RT-0064-0032
8.0 x 4.8	RT-0080-0048
9.5 x 6.4	RT-0095-0064
11.0 x 8.0	RT-0110-0080
12.7 x 9.5	RT-0127-0095
15.0 x 11.0	RT-0150-0110

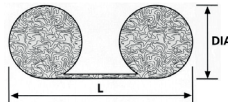
HEIGHT X WIDTH	PART NUMBER
2.0 x 2.0	REC-0020-0020
2.4 x 3.2	REC-0024-0020
2.4 x 4.8	REC-0024-0048
2.4 x 6.4	REC-0024-0064
3.2 x 3.2	REC-0032-0032
3.2 x 4.8	REC-0032-0048
3.2 x 6.4	REC-0032-0064
3.2 x 9.5	REC-0032-0095
3.2 x 12.7	REC-0032-0127
4.8 x 4.8	REC-0048-0048
4.8 x 6.4	REC-0048-0064
4.8 x 9.5	REC-0048-0095
6.4 x 6.4	REC-0064-0064
6.4 x 9.5	REC-0064-0095
6.4 x 12.7	REC-0064-0127



Round with Fin



Twin Round with Tail



HEIGHT X WIDTH	PART NUMBER
1.57 x 12.7	RWF-0016-0127
1.57 x 15.9	RWF-0016-0159
1.57 x 19.1	RWF-0016-0191
2.36 x 12.7	RWF-0024-0127
2.36 x 19.1	RWF-0024-0191
3.18 x 12.7	RWF-0032-0016-0127
3.18 x 15.9	RWF-0032-0016-0159
3.18 x 19.0	RWF-0032-0016-0190
3.96 x 12.7	RWF-0040-0020-0127
3.96 x 19.0	RWF-0040-0020-0190
4.75 x 12.7	RWF-0048-0032-0127
4.75 x 15.9	RWF-0048-0032-0159
4.75 x 19.0	RWF-0048-0032-0190
4.75 x 25.4	RWF-0048-0032-0254
6.35 x 12.7	RWF-0064-0048-0127
6.35 x 15.9	RWF-0064-0048-0159
6.35 x 19.0	RWF-0064-0048-0190
6.35 x 25.4	RWF-0064-0048-0254
9.53 x 19.0	RWF-0095-0064-0190
9.53 x 25.4	RWF-0095-0064-0254

HEIGHT X WIDTH	PART NUMBER
3.18 x 9.53	TRWF-0032-0016-0095
3.18 x 12.7	TRWF-0032-0016-0127
3.18 x 15.9	TRWF-0032-0016-0159
4.75 x 15.9	TRWF-0048-0032-0159
4.75 x 19.0	TRWF-0048-0032-0190
4.75 x 25.4	TRWF-0048-0032-0254
6.35 x 15.9	TRWF-0064-0032-0159
6.35 x 19.0	TRWF-0064-0032-0190
6.35 x 25.4	TRWF-0064-0032-0254
9.53 x 25.4	TRWF-0095-0064-0254



Knitted Wire Mesh over Elastomer Core

We stock and manufacture a wide range of elastomer cores which we can then knit over. Our standard product consists of two layers of either Monel, Aluminium, Stainless Steel or Aluminium. However, we have the ability to knit anything from 1 layer up to 7 layers. If you are using this type of gasket where you are shielding against EMP, then we would suggest no less than 7 layers.



Availability:

- O rings
- Continuous Lengths
- Fabricated gaskets
- With or without self-adhesive backing

How to order

Wire Code

Monel - 1
Aluminium - 2
TCS - 3
Stainless steel - 4

Material Code

Neo - Neoprene
EPDM - EPDM
SS - Solid Silicone
SSP - Silicone Sponge
STUBE - Silicone tube

Style

Round - R
Rectangular - REC
Round with Fin - RWF
Twin Round with tail - TRWT

Number of Layers

1 - 7

Overall OD

From 1mm up to 50mm

For Example: R-1-SS-2-0064 = Round Solid Silicone Profile with two layers of Monel Wire knitted over the core

Performance

FREQUENCY	FIELD	MONEL	ALUMINIUM	TCS	S/STEEL
10KHz	H	45	40	60	40
100KHz	H	49	45	65	44
1MHz	H	60	60	85	58
1MHz	E	125	125	125	125
10MHz	E	120	120	120	120
100MHz	E	100	100	108	100
400MHz	P	98	95	99	94
1GHz	P	85	76	78	76
10GHz	P	80	65	62	60

