

## SILICONE FILLED KNITTED WOVEN/WIRE MESH COMBINATION

SILICONE FILLED KNITTED/  
WIRE MESH COMBINATION

EMI

Arka Technologies has developed a specialised product, that incorporates the flexibility of Knitted Monel Wire Mesh, with the environmental sealing capability of silicone filled woven wire mesh, called Silicone Filled Knitted Monel Wire Mesh. This materials' flexibility lends it to be ideal for applications which require conforming properties around corners and edges. The silicone filler both supports the knitted monel mesh, and allows the material to create an environmental seal as both a cover and a compression seal. Electrical conductivity is maintained on one surface for ease of grounding.

Arka Technologies' knitted woven mesh is readily available in 8.0 inch widths, and in 12.0 inch widths with longer lead times. Modifications to thickness can be made with slight penalties in flexibility. (Thickening material without adding layers of mesh will eliminate the exposed electrically conductive surface on the one side.)

Materials	Property
Monel Wire Mesh Sleeve	.0045 wire diameter (inch)
	10 - 15 openings / inch
	Double Layer mesh
	QQ-N-281b
Solid Silicone	ZZ-R-765 CI II 50 Duro Shore A
Composite Thickness	0.018" +/- .005"
Shielding Performance	Effectiveness
1 MHz	35 dB
10 MHz	70 dB
100 MHz	85 dB
400 MHz	85 dB
1 GHz	35 dB
10 GHz	25 dB

## SERIES SILICONE FILLED KNITTED/WOVEN

Arka Technologies has developed a specialised product, that incorporates the combination of Knitted Monel Wire Mesh, 100 OPI Woven Stainless Steel wire screen, and the environmental sealing capability of silicone. This materials' flexibility lends it to be ideal for applications which require conforming properties around corners and edges. The silicone filler both supports the mesh combination, and allows the material to create an environmental seal as both a cover and a compression seal. Electrical conductivity is maintained on one surface for ease of grounding.

Arka Technologies' mesh combo is readily available in 8.0 inch widths, and in 12.0 inch widths with longer lead times. Modifications to thickness can be made with slight penalties to flexibility.

Materials	Property
Monel Wire Mesh Sleeve	.0045 wire diameter (inch)
	10 - 15 openings / inch
	QQ-N-281b
	Double Layer mesh
Woven Stainless Steel Mesh	.0015 wire diameter (inch) 100 openings / inch
Solid Silicone	ZZ-R-765 CI II 50 Duro Shore A
Composite Thickness	0.030" +/- .005"
Shielding Performance	Effectiveness
1 MHz	70 dB
10 MHz	85 dB
100 MHz	100 dB
400 MHz	100 dB
1 GHz	65 dB
10 GHz	60 dB