ZEMREX® WS ORIENTED WIRES IN SILICONE

ZEMREX WS shielding material is a composite of monel or aluminium wires embedded in solid or sponge silicone and oriented to a matrix of 100 per square centimetre

This combination provides excellent RF attenuation through wire point contact on both sides of the gasket and, in the case of solid silicone, environmental sealing to IP65 or IP66 depending on seal arrangement and compression

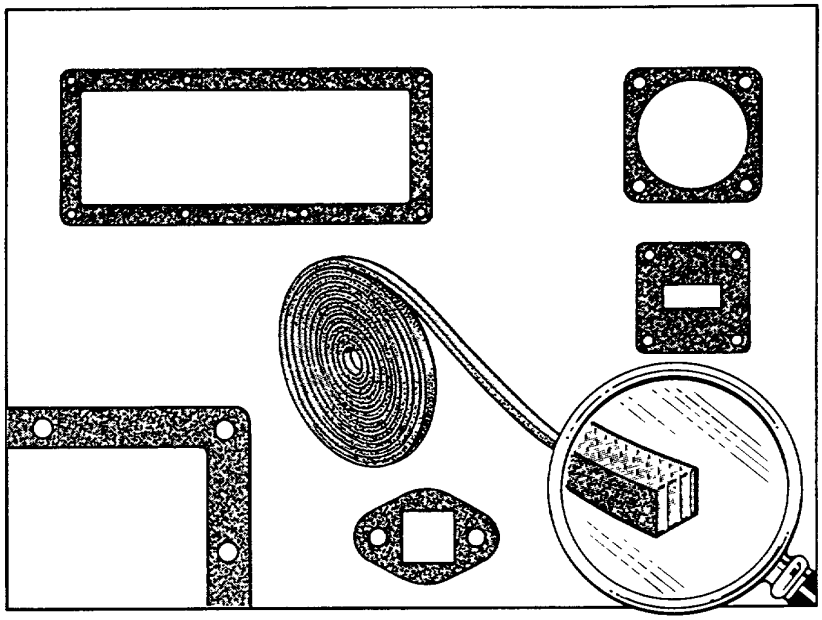
ZEMREX WS also provides good EMP survivability

CUSTOM SHAPES AND SIZES

ZEMREX WS can be supplied from stock in standard sheet sizes or die cut and slit to specification Please contact our Technical Department or forward a drawing for quotation

ADHESIVE COATING

Pressure sensitive adhesive can be applied to sheets or custom parts as required The conductive wires will easily penetrate the adhesive layer when mounted under pressure



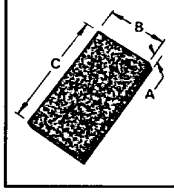
SOLID SILICONE SPECIFICATION
WIRE - MONEL 0 11mm OR ALUMINIUM 0 12mm
WIRE COUNT - 100 PER SQ CM
ELASTOMER - SOLID SILICONE
ELASTOMER HARDNESS - 30±5 SHORE MICRO
ELONGATION - 200%
COMPRESSION SET - 2% @ 3 5Kg/SQ CM
RECOMMENDED COMPRESSION - 1 75 to 7kG/SQ CM
TEMPERATURE RANGE - 55 to 200°C
COLOUR - LIGHT GREY
ADDITIONAL SPECIFICATION FOR SPONGE
ELASTOMER - CLOSED CELL SILICONE SPONGE
ELASTOMER HARDNESS - 20 ±5% SHORE MICRO
COMPRESSION SET - 5% @ 3 5Kg/SQ CM
COLOUR - DARK GREY

WS SHIELDING EFFECTIVENESS dB

FREQ·	FIELD	WS8463
10KHz	H	55
100KHz	H	83
1MHz	H	>102
100KHz	E	>121
1MHz	E	>141
10MHz	E	>120
100MHz	E	>140
400MHz	P	>102
1GHz	P	95
10GHz	P	60

H = MAGNETIC E = ELECTRIC
P = PLANE WAVE

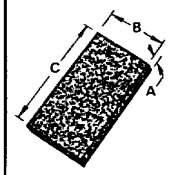
SHEET STOCK



SOLID SILICONE WITH MONEL WIRE

A (mm)	B (mm)	C (mm)	Part No
1 0	100	900	WS9909-XX
1 5	100	900	WS8463-XX
2 0	100	900	WS8574-XX
2 5	100	900	WS8685-XX
3 0	100	900	WS8796-XX

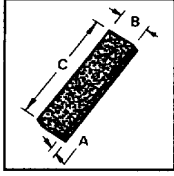
SHEET STOCK



SOLID SILICONE WITH ALUMINIUM WIRE

A (mm)	B (mm)	C (mm)	Part No
1 0	100	900	WS9965-XX
1 5	100	900	WS8753-XX
2 0	100	900	WS8394-XX
2 5	100	900	WS8539-XX
3 0	100	900	WS8631-XX

SHEET STOCK



SPONGE SILICONE WITH MONEL WIRE

A (mm)	B (mm)	C (mm)	Part No
1 5	50	900	WS8807-XX
2 0	50	900	WS8918-XX
2 5	50	900	WS8864-XX
3 0	50	900	WS7728-XX

Sheet thickness tolerance +0 25 −0 15mm for 1mm thick
±0 25mm for 1 5mm and above

Ordering procedure

AC = Adhesive coat
NA = Non-adhesive

Example WS8807-NA

Warth International Ltd
A RELIABLE FORCE IN ELECTRONICS
Charlwoods Business Centre, Charlwoods Road,
East Grinstead, Sussex RH19 2HH
Telephone: 0342-315044 Telex: 957432 Fax 0342-312969

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