

METWEAVE | Woven Fabric Gaskets

MW Shielding

MW Shielding fabric wrapped screening profiles utilise a highly conductive and durable impregnated fabric formed around a sponge or foam core to create a very versatile low compression gasket.

Applications:

Conductive or 'Metweave' fabric covered profiles are particularly suitable for fixed-gasket applications within the computer or telecommunications manufacturing sectors as they are easily trimmed to size, are self-terminating and provide excellent dust and moisture protection coupled with a high degree of EMI shielding.

Conductive Metweave fabric is available in strip form or as ready to fit pre-formed or jointed gaskets. The standard materials have a self-adhesive backing and can be quickly and easily fixed in position. Corner joints can be mitred or butt-jointed according to cross-section without the need to bond or seal the cut ends against fraying. All metweave fabric is rip-stop unless otherwise specified.

Specifications:

Open and closed-cell foam and sponge rubber cores are available (polyurethane & EPDM). The fabric can also be applied around rubber tube profiles.

Surface resistivity:	Nickel/Copper < 0.05 Ω^2
Abrasion resistance:	Excellent
Compression set:	< 10% (typical)
Temperature range:	-40°C to +70°C (typical)

Performance: Typical dB

FREQUENCY	ATTENUATION
30 MHz	90
100 MHz	>100
500 MHz	>100
1 GHz	>100
10 GHz	110

Tolerances:

Up to 16mm	±0.8mm
Up to 48mm	±1.5mm
Up to 100mm	±2.0mm

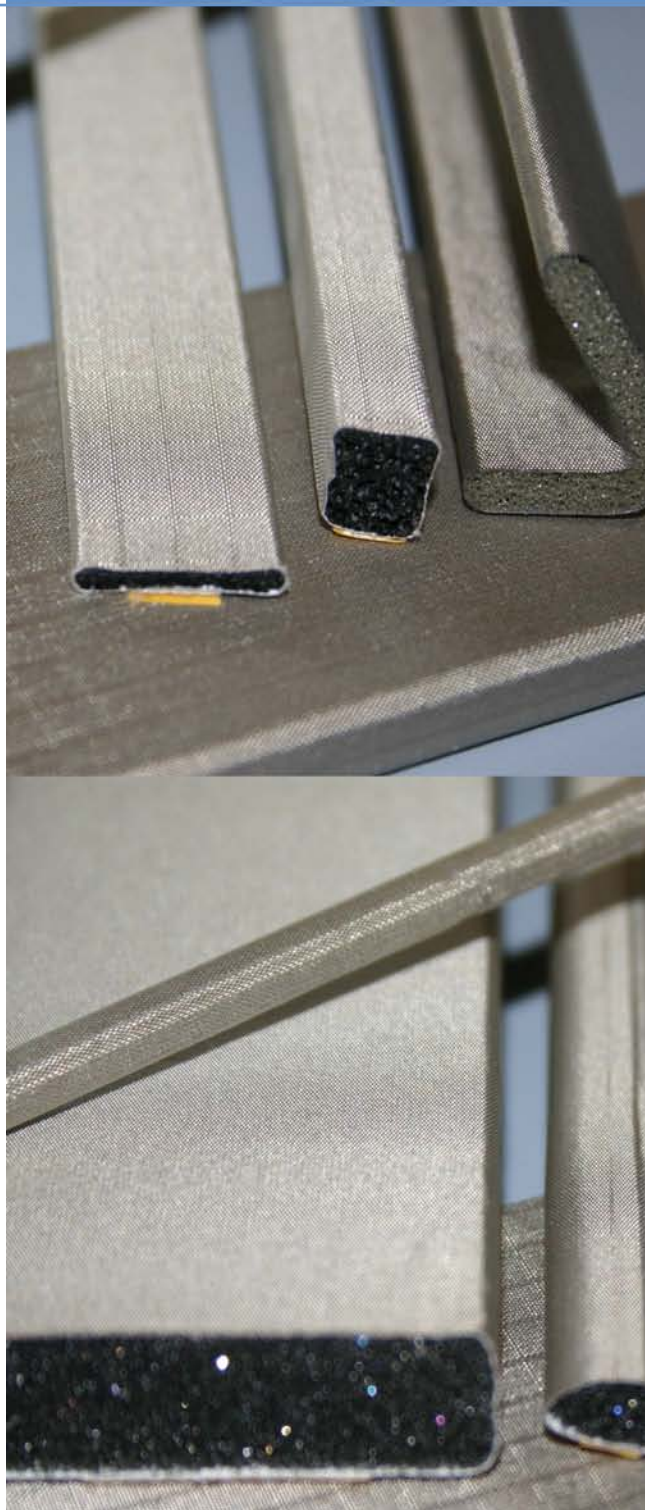
How to order:

Specify: *Series - Fabric - Filler (core) - Shape - Size - Length - Finish*
For finished gaskets please provide a detailed drawing.

Examples:

MW-CN-PU-11-0500-0500-S/A is Metweave with polyurethane foam core, 5 x 5 mm D-Section with self-adhesive.

MW-CN-EP-70-0100-0030-N/A is Metweave with EPDM Sponge core, 10 x 3 mm rectangular section without adhesive.



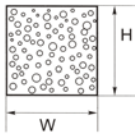
SERIES	FABRIC	FILLER (CORE)	SHAPE	SIZE	FINISH
MW=Metweave	Copper/Nickel	PU=Polyurethane	70=Rectangular	xxxx-xxxx	N/A= No Adhesive
		EP=EPDM Sponge	11=D-Section		S/A= Self-Adhesive
			88=C Section		
			60=Round		
			80=P-Section		
			90=Double D		
			77=Knife-edge		
			66=L-Section		



P & P Technology Ltd
1-3 Finch Drive
Springwood Industrial Estate
Braintree CM7 2SF

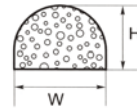
T: +44 (0) 1376 550525
www.p-p-t.co.uk

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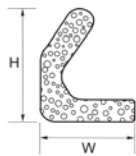
RETANGULAR

WIDTH mm	HEIGHT mm	PART NUMBER
2	2	MW-CN-PU-70-0020-0020
3	3	MW-CN-PU-70-0030-0030
4	4	MW-CN-PU-70-0040-0040
5	5	MW-CN-PU-70-0050-0050
6	6	MW-CN-PU-70-0060-0060
8	8	MW-CN-PU-70-0080-0080
10	10	MW-CN-PU-70-0100-0100
12	12	MW-CN-PU-70-0120-0120
13	13	MW-CN-PU-70-0130-0130
15	15	MW-CN-PU-70-0150-0150



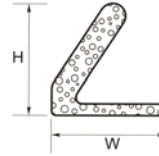
D-SHAPE

WIDTH mm	HEIGHT mm	PART NUMBER
3.9	1.5	MW-CN-PU-11-0039-0015
6.4	2.3	MW-CN-PU-11-0064-0023
9	3	MW-CN-PU-11-0090-0030
15	5	MW-CN-PU-11-0150-0050
4.3	2.7	MW-CN-PU-11-0043-0027
4	3.8	MW-CN-PU-11-0040-0038
6.4	3.6	MW-CN-PU-11-0064-0036
10	6	MW-CN-PU-11-0100-0060
10	10	MW-CN-PU-11-0100-0100
12	10	MW-CN-PU-11-0120-0100



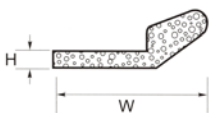
C-FOLD

WIDTH mm	HEIGHT mm	PART NUMBER
7.1	6.4	MW-CN-PU-88-0071-0064
8	8	MW-CN-PU-88-0080-0080
10.7	9.8	MW-CN-PU-88-0107-0098
10.9	10	MW-CN-PU-88-0109-0100
10.9	10.2	MW-CN-PU-88-0109-0102



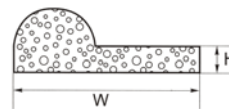
L-SHAPE

WIDTH mm	HEIGHT mm	PART NUMBER
12	11	MW-CN-PU-66-0120-0110
11	11	MW-CN-PU-66-0110-0110
15	13	MW-CN-PU-66-0150-0130
19	17	MW-CN-PU-66-0190-0170
14.7	17.1	MW-CN-PU-66-0147-0171



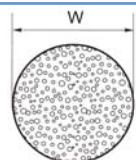
KNIFE-EDGE

WIDTH mm	HEIGHT mm	PART NUMBER
11.3	2.7	MW-CN-PU-77-0113-0027
11.4	2.8	MW-CN-PU-77-0114-0028
19.1	6.4	MW-CN-PU-77-0191-0064
18	7.9	MW-CN-PU-77-0180-0190
19.1	8.9	MW-CN-PU-77-0191-0089



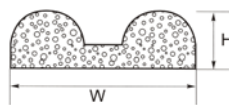
P-SHAPE

WIDTH mm	HEIGHT mm	PART NUMBER
14	3	MW-CN-PU-80-0140-0030
15	3	MW-CN-PU-80-0150-0030
13	2	MW-CN-PU-80-0130-0020
17	7	MW-CN-PU-80-0170-0070
8	2	MW-CN-PU-80-0080-0020
22.5	9.5	MW-CN-PU-80-0225-0095
12.2	5.1	MW-CN-PU-80-0122-0051
13.2	3.7	MW-CN-PU-80-0132-0037



ROUND

WIDTH mm	PART NUMBER
3	MW-CN-PU-60-0030
6	MW-CN-PU-60-0060
9	MW-CN-PU-60-0090
10	MW-CN-PU-60-0100
12	MW-CN-PU-60-0120



DOUBLE D-SHAPE

WIDTH mm	HEIGHT mm	PART NUMBER
9.6	3.2	MW-CN-PU-90-0096-0032
9.7	2.8	MW-CN-PU-90-0097-0028

Note:

Minimum order quantities may apply as not all profiles are stock parts - please contact us for more details.



P & P Technology Ltd
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METWEAVE | Conductive Fabric MF Shielding

MF Shielding:

MF Shielding is a range of highly conductive metallised fabrics. They consist of a base material of nylon coated with nickel/copper. The fabrics have excellent conductivity in all directions and exhibit outstanding shielding effectiveness. They are very flexible and are ideal for wrapping around core material or for die stamping. The fabric has good abrasion resistance of in excess of 500,000 cycles and is fire retardant to UL94 V0.

Various adhesive options are available, including a hot melt or a pressure sensitive adhesive on one side or it can be supplied without adhesive. For advice on applications, please consult our sales office.

How to order:

Specify: *Series - Part Number - Length/Drawing Number - Finish*

SERIES	PART NUMBER	LENGTH / DWG.	FINISH
MF=Conductive Fabric	NF32B=Nylon/PET/Cu+Ni Ripstop Fabric	xxxx	S/A= Self Adhesive
	PF31B=PET/Cu+Ni Fabric Plain Weave		N/A=No Adhesive
			H/A= Heat activated Adhesive

Example:

MF-NF32B-H/A is Nylon/PET/Cu+Ni ripstop fabric with heat activated adhesive.

Note:

A wide range of additional conductive fabrics is available - please contact us for further details.



METWEAVE | Conductive Sponge MS Shielding

MS Shielding:

Our MS Shielding is a conductive polyurethane sponge with a conductive fabric bonded to each face. It is available in a range of thicknesses and can be supplied with or without a conductive adhesive on one face. The material is highly conductive in all planes (X,Y & Z axis) with a typical resistance of $\leq 1.00\Omega$. The material is easily die-cut and is ideal for connector gaskets or where a gap needs to be filled without high compression.

Performance: Typical dB

FREQUENCY	ATTENUATION
10 MHz	≥ 60
100 MHz	≥ 60
500 MHz	≥ 60
1GHz	≥ 60
3 GHz	≥ 60

How to order:

Specify: Series - Part Number/Thickness - Size/Drawing Number - Finish

SERIES	PART NUMBER	SIZE	FINISH
MS=Conductive Sponge	1013=1.3mm ± 0.3 Thick	xxxx-xxxx	S/A=Self-Adhesive
	1025=2.5mm ± 0.5 Thick		N/A=No Adhesive
	1035=3.5mm ± 0.5 Thick		

Example:

MS-1035-5000-5000-S/A is conductive sponge 3.5 mm thick 500 x 500 mm with self-adhesive.

Note:

Maximum material width is 1200mm ± 5 mm.



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