

CLIP ON KNITTED WIRE MESH RFI/EMI SHIELDING GASKET STRIP

Clip on knitted wire mesh gasket strip is a very flexible, easily compressible sponge EPDM tubular or bulb type gasket strip with a steel spring clip covered with a double knitted wire mesh layer for RFI/EMI shielding.

APPLICATION

Provides a good RFI/EMI shield for enclosures and electrical cabinets. The soft hollow bulb profile requires low closure force and makes the product particularly suitable for door applications where frequent opening and closing is required. The clip on gasket is easy to fit and will bend up to 90 degrees. The knitted wire mesh gives very low contact resistance between mating surfaces ensuring good shielding. The choice of wire mesh material available also allows for a good galvanic match with mating flanges, thereby limiting the possibility of corrosion between gasket and flange.

AVAILABILITY

- In continuous lengths
- Cut to length
- Fabricated into finished gaskets
- Variety of profiles and sizes
- Fabricated gaskets
- Selection of wire to meet galvanic compatibility requirements

Other profiles and NBR rubber are available to special order – please enquire to discuss your application

DESIGN CONSIDERATIONS

- Consideration should be given to the termination of cut mesh ends. Sometimes loose wires are evident after cutting. Kemtron are experts at mesh termination however if you choose to cut the mesh yourself loose wires can be avoided by:
 - Dipping the end in glue,
 - Sewing the cut mesh end.
- Galvanic compatibility. Select from a choice of wire.
- Water and moisture sealing is not possible with this product. However, it does offer a limited dust seal.

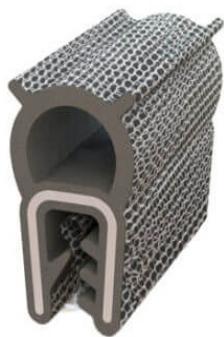
TYPICAL SHIELDING PERFORMANCE

H Field Magnetic				
MHz	10 kHz	100 kHz	1.0 MHz	10.0 MHz
Monel	28	45	64	>104
TCS	47	67	88	>104
S/St	35	43	50	-
Aluminium	36	47	64	>104

E Field Electric				
MHz	0.1 MHz	1.0 MHz	10.0 MHz	100 MHz
Monel	>118	>136	>123	99
TCS	>118	>136	>126	109
S/St	119	102	-	-
Aluminium	>118	>136	>120	91

P Field Plain Wave			
MHz	400 MHz	1.0 MHz	10.0 MHz
Monel	96	84	46
TCS	98	77	43
S/St	85	62	36
Aluminium	86	72	34

PROFILE SHAPE 05



PROFILE SHAPE 05

Monel Alloy 400 Wire

Wire diameter 0.11mm

UK Specification to BS3075 NA13

USA Specification to AMS 4730

Tin Plated Copper Clad Steel (TCS)

Wire diameter 0.11mm

UK Specification BS EN 50117-10-1*, BS4087*

USA Specification ASTM B277*, ASTM B452*, ASTM B520, ASTM B33*, AISI 1010

* There is no complete specification for this material. Processes have been derived from parts of the above where applicable.

Stainless Steel (S/St)

UK Specification BS EN 10088-3 2005 316 S19

Wire diameter 0.11mm

Aluminium (Alu)

Specification BS EN 573 pt 3

Wire diameter 0.13mm

EPDM

Sponge rubber (EPDM) black (clamping profile EPDM 65 ± 5 shore A).

UL50

UL95-HB

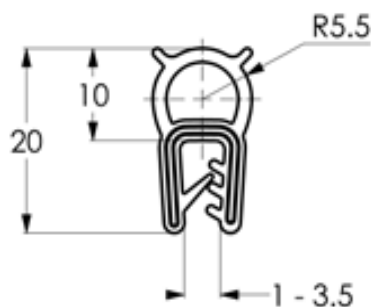
Example

6052 = profile shape 05 with Monel Wire Mesh

HOW TO ORDER

The sizes shown on the tables are typical examples of our range other sizes are available on request. Each profile shape has its own part number and wire mesh material code.

PROFILE

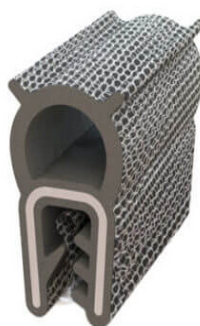


MATERIAL CODES

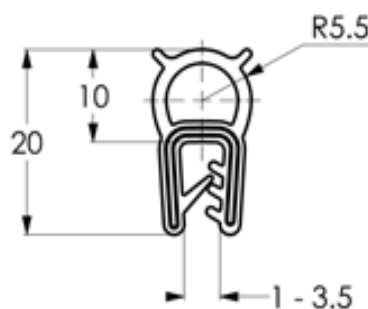
Mon	TCS	S/St	Alu
6052	6054	6056	6058

Other sizes are available on request.

PROFILE SHAPE 49



PROFILE



MATERIAL CODES

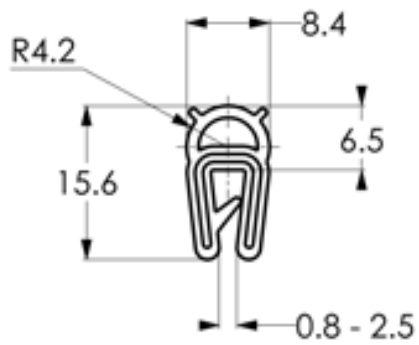
Mon	TCS	S/St	Alu
6492	6494	6496	6498

Other sizes are available on request.

PROFILE SHAPE 10



PROFILE



MATERIAL CODES

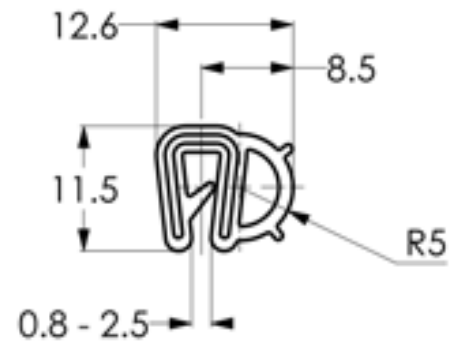
Mon	TCS	S/St	Alu
6102	6104	6106	6108

Other sizes are available on request.

PROFILE SHAPE 09



PROFILE

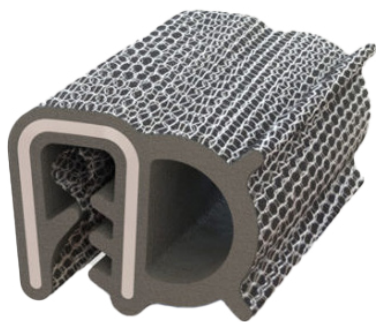


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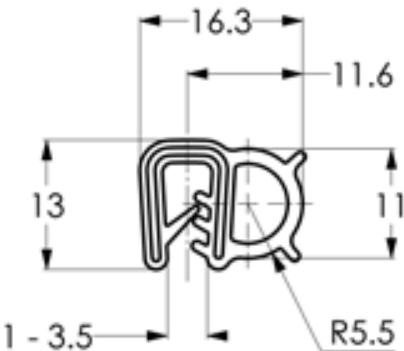
Mon	TCS	S/St	Alu
6092	6094	6096	6098

Other sizes are available on request.

PROFILE SHAPE 06



PROFILE

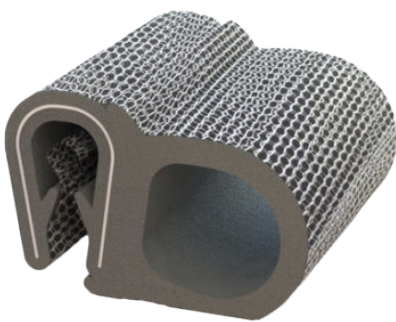


MATERIAL CODES

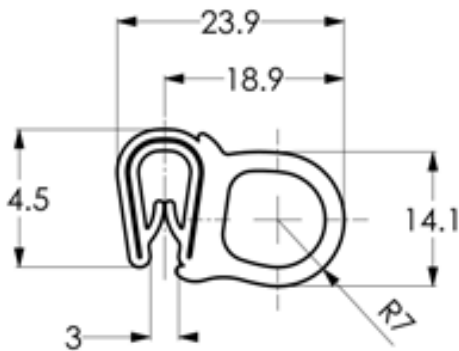
Mon	TCS	S/St	Alu
6062	6064	6066	6068

Other sizes are available on request.

PROFILE SHAPE 19



PROFILE



MATERIAL CODES

Mon	TCS	S/St	Alu
6192	6194	6196	6198

Other sizes are available on request.

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