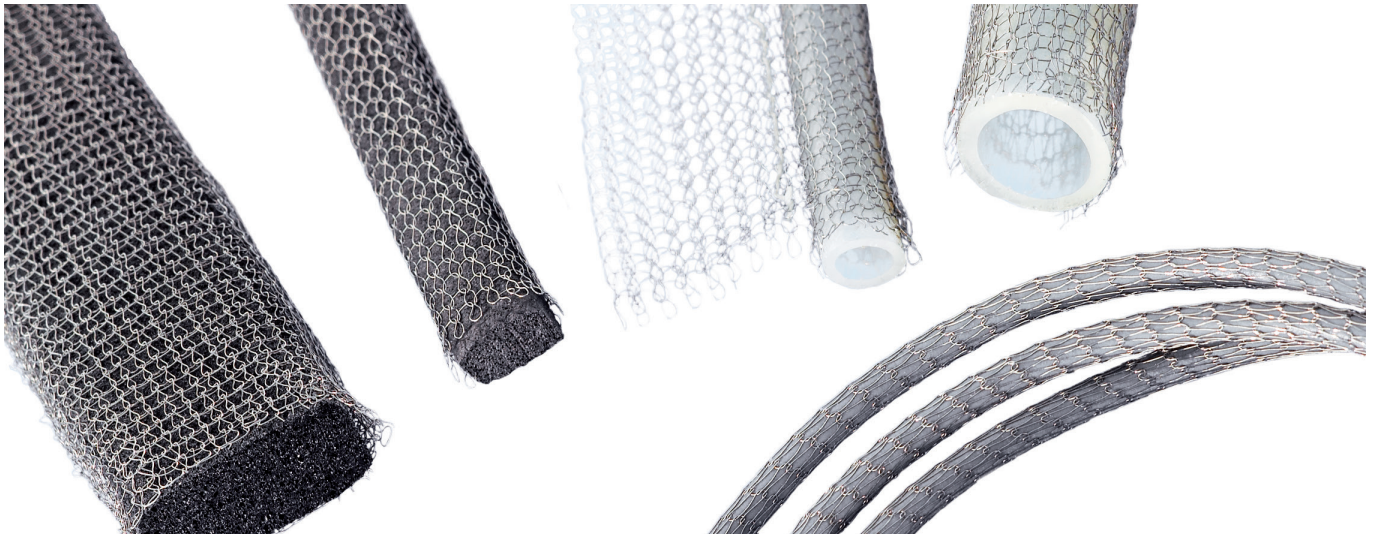


# METAL KNIT GASKET 1200

Universal EMC gasket to shield lower frequencies



The Metal knit EMI/RFI shielding gaskets of the 1200 series consist of a layer of knitted electrically conductive metal wires on attached to a low-closure force rubber or elastomer core. For heavy-duty applications like EMP or high temperatures, a fully metal version is available. Sometimes a Metal knit EMI/RFI gasket is combined with an environmental seal to provide IP rating, depending on the materials used.

Knitted wire mesh gaskets provide a cost-effective solution to high shielding performance applications in the magnetic and electrical fields, including EMP. The gaskets can be made either completely from knitted metal mesh or from knitted metal mesh over an elastomer core which allows recovery after compression.

For high frequency shielding, foil-based gaskets like Amucor Shield 6800 series will perform better, because of their much larger contact surface.

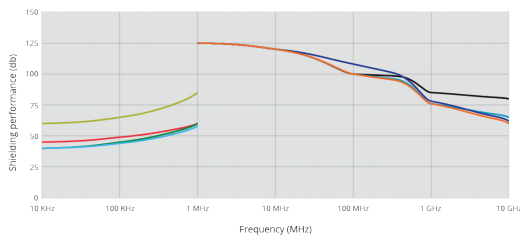
## METAL KNIT GASKET VS. AMUCOR SHIELD



Contact points of Amucor shield

Contact points of metal knit gasket

## SHIELDING PERFORMANCE\*



- Monel (H field)
- Monel (E field + P field)
- Aluminium (H field)
- Aluminium (E field + P field)
- TCS (H field)
- TCS (E field + P field)
- S/Steel (H field)
- S/Steel (E field + P field)

## BENEFITS

- High attenuation for lower frequencies (low-frequency magnetic shielding)
- Suitable for use under extreme conditions (military applications)
- Wear resistant
- Not susceptible to corrosion
- Various conductive materials against tension corrosion
- Roll lengths of 1 to 1000 meters (depending on width and height of the gasket)
- Tools required: pair of scissors

## OPTIONS (ON REQUEST)

- Custom made in the dimensions specified
- Available with flame-retardant core
- Available with conductive self-adhesive
- Available with chemical-resistant rubbers like EPDM
- Silicone sponge for high temperatures up to 220 °C
- Cut into accurate lengths
- As a ready made frame

## TECHNICAL SPECIFICATIONS

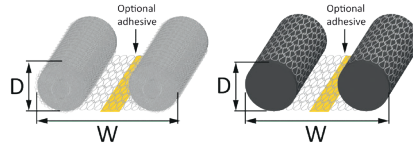
Material	Applications
Monel Per QQ-N-281 BS 3075 N A 13 Class A diameter 0.11mm	The most commonly used material. Insensitive to corrosion and neutral on the galvanic scale.
Aluminium AMS 4187 BS 1475 5056A Alloy 5056 diameter 0.16mm	Used in some cases for aluminium enclosures.
T.C.S. Steel core (57%) Copper cladding (40%) Tin plating (3%) diameter 0.11mm	Excellent magnetic as well as electrical properties, because a Ferro alloy is covered with copper. The outside is tinned to prevent corrosion.
Stainless steel AISI 304 diameter 0.13mm	The strongest material with shielding performance comparable to aluminium. Highly wear-resistant.

## STOCK DIMENSIONS

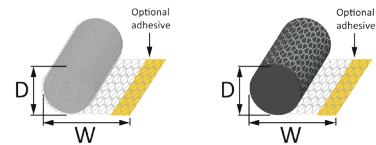
Below are all the standard sizes we keep in stock and so are available quickly. Almost any size and combination can be produced. If you need a size that is not listed below please contact for the options and delivery time.



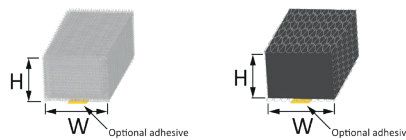
Round (R) D (mm)	
1.6	6.4
2.4	7.9
3.2	9.5
4.0	11.1
4.8	12.7



Double round (DR) d x w (mm)		
1.6 x 9.5	3.2 x 12.7	6.4 x 15.9
1.6 x 12.7	3.2 x 15.9	6.4 x 19.1
1.6 x 15.9	4.8 x 15.9	6.4 x 25.4
2.4 x 12.7	4.8 x 19.1	9.5 x 25.4
3.2 x 9.5	4.8 x 25.4	12.7 x 25.4



Round with tail (T) d x w (mm)		
1.6 x 9.5	4.0 x 12.7	7.9 x 15.9
1.6 x 12.7	4.0 x 19.1	7.9 x 19.1
1.6 x 15.9	4.8 x 12.7	7.9 x 25.4
1.6 x 19.1	4.8 x 15.9	9.5 x 15.9
2.4 x 12.7	4.8 x 19.1	9.5 x 19.1
2.4 x 15.9	4.8 x 25.4	9.5 x 25.4
2.4 x 19.1	6.4 x 12.7	11.1 x 19.1
3.2 x 12.7	6.4 x 15.9	11.1 x 25.4
3.2 x 15.9	6.4 x 19.1	12.7 x 19.1
3.2 x 19.1	6.4 x 25.4	12.7 x 25.4

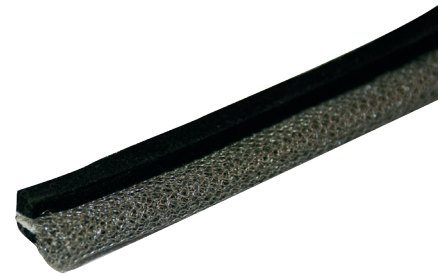
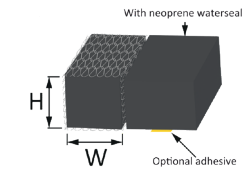
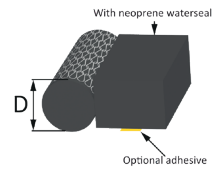
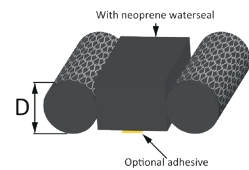


Rectangular (S) w x h (mm)		
3.2 x 1.6	9.5 x 3.2	19.1 x 12.7
3.2 x 2.4	9.5 x 4.8	20 x 6
3.2 x 3.2	9.5 x 6.4	20 x 8
4.0 x 3.2	12.7 x 6.4	20 x 10
4.8 x 2.4	12.7 x 9.5	20 x 12
4.8 x 3.2	12.7 x 12.7	20 x 20
4.8 x 4.8	15 x 6	25 x 6
6.4 x 1.6	15 x 8	25 x 8
6.4 x 2.4	15 x 10	25 x 10
6.4 x 3.2	15 x 12	25 x 12
6.4 x 4.8	15 x 15	25 x 18
6.4 x 6.4	15.9 x 9.5	25 x 20

## WITH WATER SEAL/IP SEAL

All knitted mesh EMI/RFI gaskets can be produced with a water seal/IP seal.

The standard material for the fluid seal/water seal is Neoprene which can be adhesive-backed (indicated in red in the drawings) for easy installation. Alternatively, silicone sponge is also available.



## ORDER EXAMPLE

Series	Core	Material	Outside shape	Dimensions	Waterseal (Optional)
1200	<ul style="list-style-type: none"> <li>N : Not important</li> <li>F : Full metal</li> <li>C : Neoprene foam</li> <li>S : Silicone</li> <li>SF : Silicone foam</li> <li>E : EPDM foam</li> </ul>	<ul style="list-style-type: none"> <li>N : Not important</li> <li>M : Monel</li> <li>T : TCS</li> <li>A : Aluminium</li> <li>S : Stainless steel</li> </ul>	<ul style="list-style-type: none"> <li>R : Round</li> <li>DR : Double round</li> <li>T : Round with tail</li> <li>S : Rectangular</li> </ul>	Find the sizes in the dimension table above for example 1.6 x 9.5	<ul style="list-style-type: none"> <li>N : No waterseal</li> <li>Specify the width of the water seal in mm</li> </ul>
				<b>Adhesive</b> <ul style="list-style-type: none"> <li>N : Not adhesive</li> <li>A : With adhesive placed in the middle</li> <li>AS : With adhesive placed asymmetrical</li> </ul>	<b>Length (meters)</b>