

# METAL KNIT GASKET 1200

Universal EMC gasket to shield lower frequencies

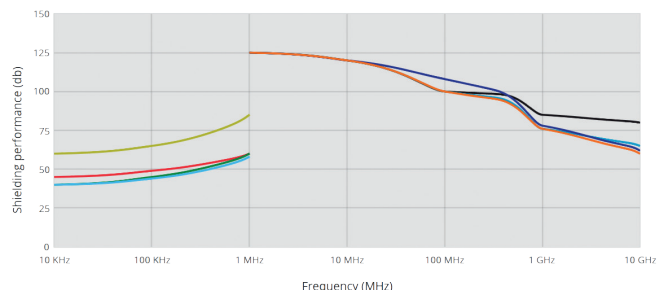


The Metal knit EMI/RFI shielding gaskets of the 1200 series consist of a layer of knitted electrically conductive metal wires on attached to a low-closure force rubber or elastomer core. For heavy-duty applications like EMP or high temperatures, a fully metal version is available. Sometimes a Metal knit 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.

## 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)

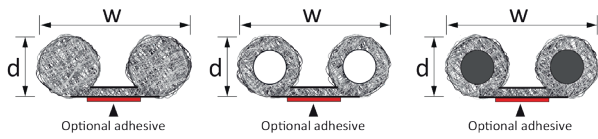
- Custom made in the dimensions specified
- Available with flame-retardant core
- Available with conductive self-adhesive
- Available with chemical-resistant rubbers like EPDM
- Silicone sponge for high temperatures up to 220 °C
- Cut into accurate lengths
- As a ready made frame

## STOCK DIMENSIONS

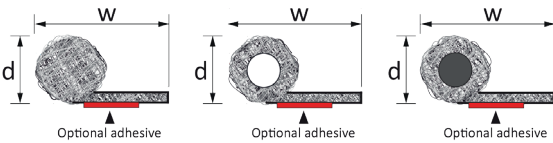


Round (R) D (mm)	
1.6	6.4
2.4	7.9
3.2	9.5
4.0	11.1
4.8	12.7

## » METAL KNIT GASKET 1200



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

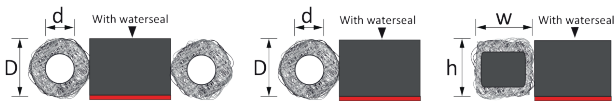


Round with tail (T) d x w (mm)			
1.6 x 9.5	3.2 x 15.9	6.4 x 12.7	9.4 x 25.4
1.6 x 12.7	3.2 x 19.1	6.4 x 15.9	9.5 x 15.9
1.6 x 15.9	4.0 x 12.7	6.4 x 19.1	9.5 x 19.1
1.6 x 19.1	4.0 x 19.1	6.4 x 25.4	9.5 x 25.4
2.4 x 12.7	4.8 x 12.7	7.9 x 15.9	11.1 x 19.1
2.4 x 15.9	4.8 x 15.9	7.9 x 19.1	11.1 x 25.4
2.4 x 19.1	4.8 x 19.1	7.9 x 25.4	12.7 x 19.1
3.2 x 12.7	4.8 x 25.4	9.4 x 19.1	12.7 x 25.4

### 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)	Adhesive	Length (meters)
1200	<ul style="list-style-type: none"> <li>N : Not important</li> <li>F : Full metal</li> <li>O : Hollow full metal</li> <li>C : Neoprene foam</li> <li>S : Silicone</li> <li>SF : Silicone foam</li> <li>H : Hollow silicone tube</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 : Aluminum</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>	<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>	



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

### METAL KNIT GASKET VS. AMUCOR SHIELD



Contact points of Amucor shield

Contact points of metal knit gasket

### KNITTED WIRE MESH WASHERS & DISKS 1250

We can add 1250 series electrically conductive washers or disks to the Metal knit gasket. For this we do ask you to send a technical drawing with the right dimensions and position of the washers/disks.