

Metal Knit Gaskets 1200

For military applications, to shield lower frequencies



The 1200 series EMC gaskets consist of a core covered with knitted mesh. In most cases the gaskets are made of sponge, hollow tubes or extruded elastomers. For special applications like EMP or high temperatures a fully metal version is available.

Temperature resistance depends on the core material, but ranges from -60°C to 180°C. These gaskets are insensitive to external influences and can withstand harsh conditions very well. Also available with separate neoprene or silicone water seal.

The maximum deflection with a sponge elastomer core is approximately 30%, with hollow extrusion 50%. This is why the hollow type is used more often.



Knitted Mesh Gasket



Shielding performance

Frequency	Mode	Monel	Aluminium	TCS	S/Steel
10 KHz	H	45	40	60	40
100 KHz	H	49	45	65	44
1 MHz	H	60	60	85	58
1 MHz	E	125	125	125	125
10 MHz	E	120	120	120	120
100 MHz	E	100	100	108	100
400 MHz	P	98	95	99	94
1 GHz	P	85	76	78	76
10 GHz	P	80	65	62	60

See guarantee

For high frequency shielding, foil-based gaskets like Amucor Shield 6800 will perform better, due to their much larger contact surface. See image below.



contact points of mesh



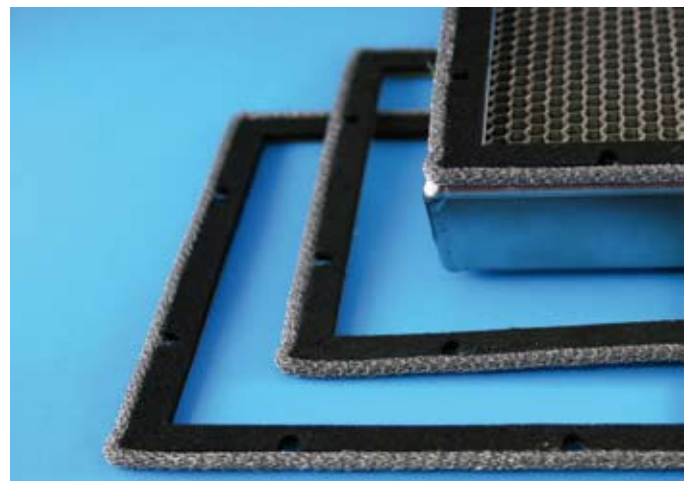
contact surface of Amucor Shield

Advantages

- High attenuation level for lower frequencies
- Suitable for use under extreme conditions (military applications)
- Wear resistant
- Insensitive to corrosion

Technical specifications

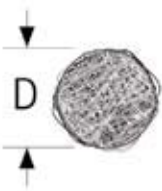
Material	Applications
Monel Per QQ-N-281 BS 3075 N A 13 Class A diameter 0.11mm	The most commonly used material. Insensitive to corrosion and neutral on the galvanic scale.
Aluminium AMS 4187 BS 1475 5056A Alloy 5056 diameter 0.13mm	Is used in some cases for aluminium enclosures. Aluminium can be chrome-plated with an Alchrome 1200 layer, if necessary.
T.C.S. Steel Core(57%) Copper cladding(40%) Tin Plating (3%) diameter 0.11mm	This material has excellent magnetic as well as electrical properties, because a Ferro alloy is covered with copper. The outside is tin-plated to prevent corrosion.
Stainless steel AISI 304 diameter 0.13mm	The strongest material with a shielding performance that can be compared with aluminium. High resistance against wear.



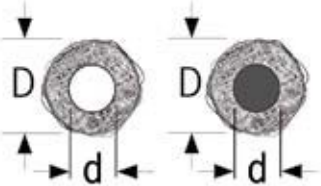
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For military applications to shield lower frequencies

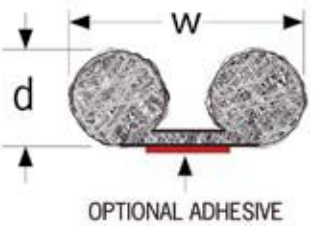
Stock dimensions



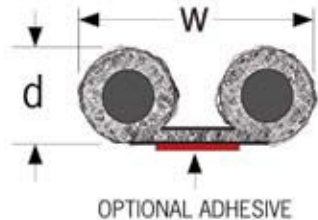
Fully metal round (R) D x d (mm)	
1.6 x 0	6.4 x 0
2.4 x 0	7.9 x 0
3.2 x 0	9.5 x 0
4.0 x 0	11.1 x 0
4.8 x 0	12.7 x 0



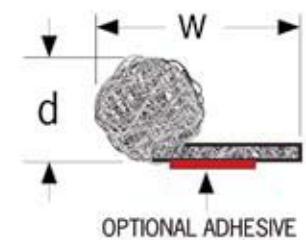
Hollow round (HR) D x d (mm)	
3.2 x 1.6	9.5 x 6.4
4.8 x 3.2	11.1 x 8.0
6.4 x 3.2	12.7 x 9.5
8.0 x 4.8	14.9 x 11.1



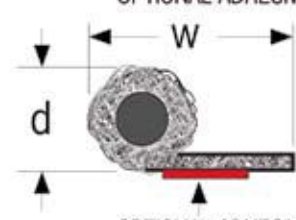
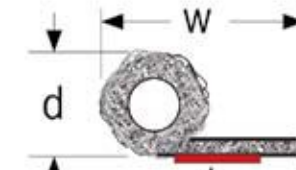
Double fully metal round (B) d x w (mm)	
1.6 x 9.5	4.8 x 15.9
1.6 x 12.7	4.8 x 19.1
1.6 x 15.9	4.8 x 25.4
2.4 x 12.7	6.4 x 15.9
3.2 x 9.5	6.4 x 19.1
3.2 x 12.7	6.4 x 25.4
3.2 x 15.9	



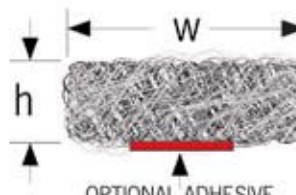
Double hollow round (HB) d x w (mm)	
3.2 x 9.5	6.4 x 15.9
3.2 x 12.7	6.4 x 19.1
3.2 x 15.9	6.4 x 25.4
4.8 x 15.9	9.5 x 25.4
4.8 x 19.1	
4.8 x 25.4	



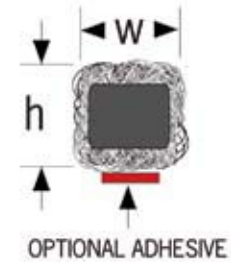
Fully metal round with tail (T) d x w (mm)	
1.6 x 9.5	7.9 x 15.9
1.6 x 12.7	7.9 x 19.1
1.6 x 15.9	7.9 x 25.4
2.4 x 12.7	9.5 x 15.9
2.4 x 15.9	9.5 x 19.1
3.2 x 12.7	9.5 x 25.4
3.2 x 15.9	11.1 x 19.1
4.0 x 12.7	11.1 x 25.4
4.0 x 19.1	12.7 x 19.1
4.8 x 15.9	12.7 x 25.4
4.8 x 19.1	
4.8 x 25.4	
6.4 x 15.9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



Hollow round with tail (HT) d x w (mm)	
1.6 x 12.7	4.8 x 12.7
1.6 x 15.9	4.8 x 15.9
1.6 x 19.1	4.8 x 19.1
2.4 x 12.7	4.8 x 25.4
2.4 x 19.1	6.4 x 12.7
3.2 x 12.7	6.4 x 15.9
3.2 x 16.0	6.4 x 19.1
3.2 x 19.1	6.4 x 25.4
4.0 x 12.7	9.4 x 19.1
4.0 x 19.1	9.4 x 25.4

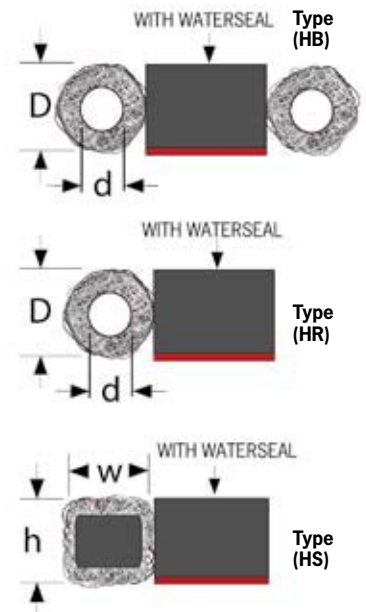


Fully metal rectangular (S) w x h (mm)	
3.2 x 1.6	15 x 12
3.2 x 3.2	15 x 15
3.2 x 4.0	15.9 x 9.5
3.2 x 4.8	19.1 x 12.7
3.2 x 6.4	20 x 6
4.8 x 4.8	20 x 8
6.4 x 1.6	20 x 10
6.4 x 3.2	20 x 12
6.4 x 6.4	20 x 20
9.5 x 6.4	25 x 6
12.7 x 6.4	25 x 8
12.7 x 9.5	25 x 10
12.7 x 12.7	25 x 12
15 x 6	25 x 18
15 x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



Hollow rectangular (HS) w x h (mm)	
2.4 x 3.2	4.8 x 4.8
2.4 x 4.8	4.8 x 6.4
2.4 x 6.4	4.8 x 9.5
3.2 x 3.2	6.4 x 6.4
3.2 x 4.8	6.4 x 9.5
3.2 x 6.4	6.4 x 12.7
3.2 x 9.5	

All knitted mesh gaskets can be produced with water seal.



Ordering information

Serie	Core	Material	Shape	Dimensions (mm)	Waterseal	Width (mm)
1200	C	M	S	3.2 x 1.6	S	10
	<ul style="list-style-type: none"> N : Not important F : Full metal H : Hollow silicone C : Neoprene S : Silicone E : EPDM O : Hollow 	<ul style="list-style-type: none"> N : Not important M : Monel T : TCS A : Aluminium S : Stainless steel E : Steel 	<ul style="list-style-type: none"> R : Fully metal round HR : Hollow round B : Double fully metal round HB : Double hollow round T : Fully metal round with tail HT : Hollow round with tail S : Fully metal rectangular HS : Hollow rectangular 	<ul style="list-style-type: none"> S : Standard waterseal P : Soft "P" seal N : No waterseal 	Specify the width of the waterseal in mm	