

# 编织 金属网 垫片

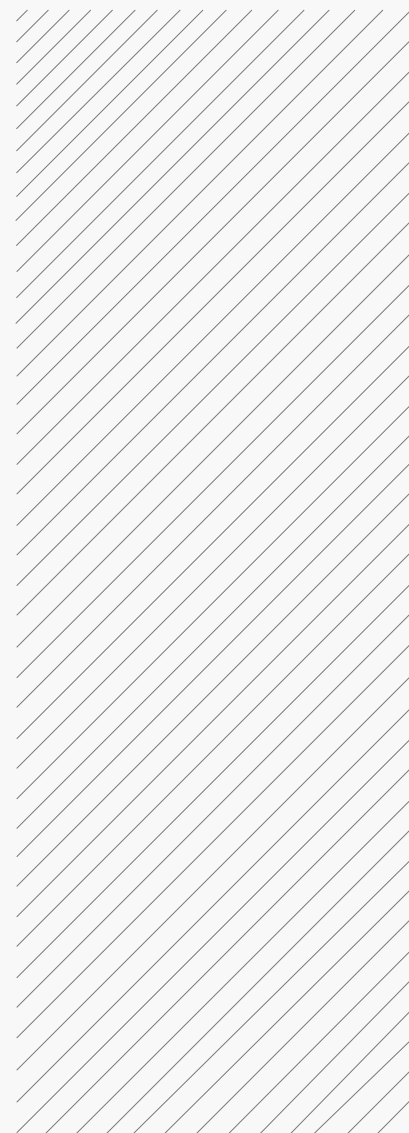
将不可能编织成可能



BOEDON Industech 有限公司

[www.boedon.com](http://www.boedon.com) | [sales@boedon.com](mailto:sales@boedon.com)

# BOEDON 宣传册



# 编织金属网垫片

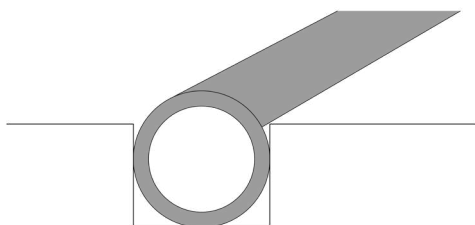


编织金属网垫片由金属网或金属网覆盖弹性体芯制成，用于电子设备的电磁干扰和射频干扰屏蔽。

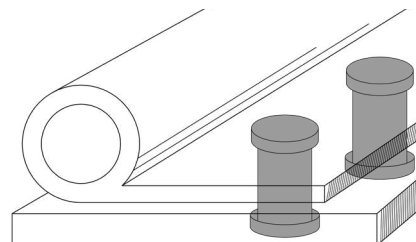
电子元件通常安装在外壳中。然而，在安装过程中，电子元件和外壳之间存在孔洞或槽口，电磁场将通过这些孔洞或槽口传递，导致电磁泄漏。随着电磁干扰或信号的增加，这些电磁干扰信号可能对设备和周围易受损组件产生负面影响，导致各种与设备相关的问题，如性能下降甚至永久损坏。为了保护这些组件，需要采取适当的屏蔽措施，确保系统的安全运行。

编织金属丝网垫圈是一种有效的电磁屏蔽材料，用于覆盖孔洞或槽口，防止电磁信号泄漏，确保电气设备的正常运行。

## 安装

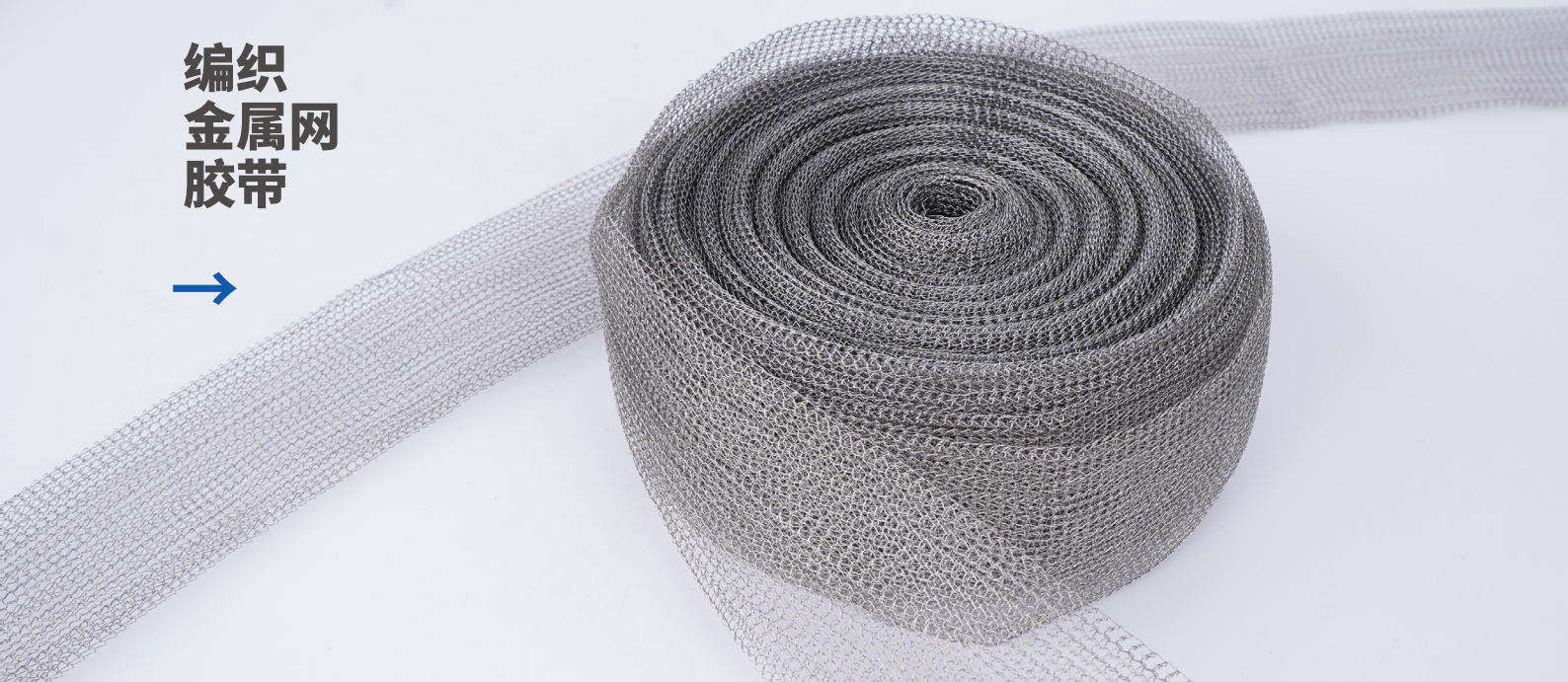


它可以固定在电子元件外壳的槽中，并使用导电胶粘剂进行固定。



它可以用于金属板外壳，并通过铆接或点焊进行固定。

## 编织 金属网 胶带



编织金属丝网带是一种双层编织金属丝网带。由于其形状和特点，它可用于电缆和电缆束的电磁屏蔽、接地和静电放电。

标准电磁屏蔽带由镀锡铜包钢（Sn/Cu/Fe）编织金属丝网制成，具有良好的环境适应性、高拉伸强度和良好的屏蔽性能。

在包裹电缆束时，先覆盖主电缆，然后是分支电缆。起始和结束处必须预留至少100毫米的余量。可以使用导电环氧树脂胶粘剂进行端部连接，也可以使用焊接或绑扎进行端部连接，以确保编织金属丝网带均匀地包裹在电缆束上。

常用材料为镀锡铜包钢（Sn/Cu/Fe），线径为0.114毫米，符合ASTMB-520标准。

## 电磁屏蔽效果

材料	磁场		电场		平面波	
	100千赫	10兆赫	1吉赫	10吉赫		
	分贝		分贝		分贝	分贝
Sn/Cu/Fe	45	60	40	30		

注：常用尺寸为12.7毫米 × 25.4毫米



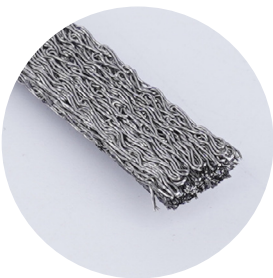
# 全金属编织线网垫片



全金属编织线网垫片是一种弹性金属编织线网条，通常用作垫片材料，在电子设备外壳的接缝处提供有效的EMI屏蔽。它们通常以矩形、圆形、带尾巴的圆形和双圆形形状供应。

## 常见材料

- 镀锡磷青铜 (Sn/Ph/Bz)。线径：0.114毫米，符合ASTMB-105标准。
- 镀锡铜包钢 (Sn/Cu/Fe)。线径：0.114毫米，符合ASTMB-520标准。
- Monel。线径：0.114毫米，符合QQN-281 AMS-4730标准。



矩形  
全金属编织  
金属网胶垫  
用于铸造或加工零件。



圆形全金属编织  
线网垫片  
用于钣金外壳



带尾巴的圆形全金属  
编织线网垫片  
用于钣金外壳



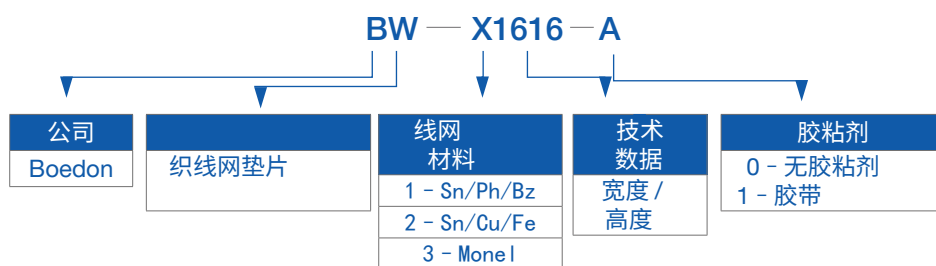
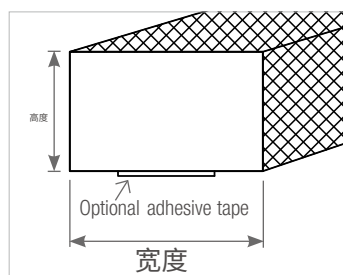
双圆形  
用于钣金外壳

## 电磁屏蔽效果

材料	磁场	电场	平面波	
	100千赫 分贝	10兆赫 分贝	1吉赫 分贝	10吉赫 分贝
Sn/Ph/Bz	80	130	95	95
Sn/Cu/Fe	60	125	80	80
Monel	60	125	80	80

注：以127 mm × 127 mm孔径为标准尺寸。

## 矩形全金属编织线网垫片

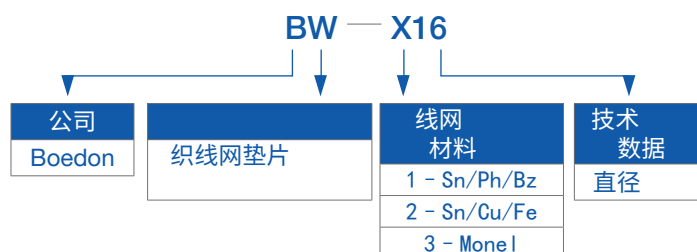
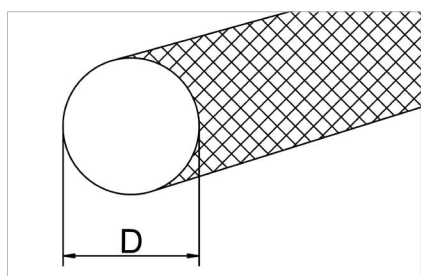


宽度：1.60 - 25.40 mm 公差：0.79- 0 mm

高度：1.57 - 9.53 mm 公差：0.14- 0 mm

Model	Width (mm)	Height (mm)	Model	Width (mm)	Height (mm)
BW-X1616	1.60	1.60	BW-X7923	7.95	2.39
BW-X2323	2.39	2.39	BW-X7931	7.95	3.18
BW-X3116	3.18	1.60	BW-X7947	7.95	4.78
BW-X3123	3.18	2.39	BW-X7963	7.95	6.35
BW-X3131	3.18	3.18	BW-X7979	7.95	7.95
BW-X3139	3.18	3.96	BW-X9516	9.53	1.60
BW-X4716	4.78	1.60	BW-X9523	9.53	2.39
BW-X4723	4.78	2.39	BW-X9531	9.53	3.18
BW-X4731	4.78	3.18	BW-X9547	9.53	4.78
BW-X4747	4.78	4.78	BW-X9563	9.53	6.35
BW-X6316	6.35	1.60	BW-X9595	9.53	9.53
BW-X6323	6.35	2.39	BW-X1263	12.70	6.35
BW-X6331	6.35	3.18	BW-X1215	12.70	1.57
BW-X6347	6.35	4.78	BW-X1231	12.70	3.18
BW-X6363	6.35	6.35	BW-X1931	19.05	3.18
BW-X7916	7.95	1.60	BW-X2531	25.40	3.18

## 圆形全金属编织线网垫片



直径：1.60 - 4.78 mm

公差：0.79. - 0 mm

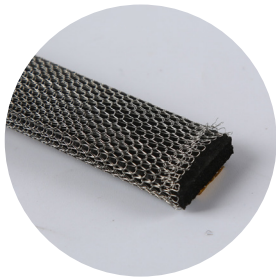
Model	Diameter (mm)	Model	Diameter (mm)
BW-X16	1.60	BW-X63	6.35
BW-X23	2.39	BW-X79	7.95
BW-X31	3.18	BW-X96	9.63
BW-X39	3.96	BW-X11	11.13
BW-X47	4.78	BW-X12	12.70

## Elastomer Cored Knitted Wire Mesh Gasket



Elastomer cored knitted wire mesh gasket is a product combined knitted wire mesh with elastomer cores. The base material is covered with 2 layers of knitted wire mesh. The core material includes neoprene rubber, silicone rubber sponge and rubber tube.

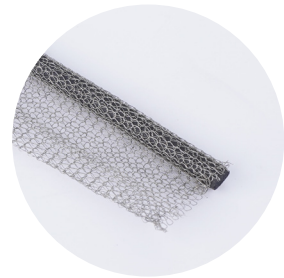
It is easy to remove, relatively softer and can be used in irregular or uneven seams of the electronic enclosure.



Rectangular elastomer cored double-layer knitted wire mesh gasket



Round elastomer cored double-layer knitted wire mesh gasket



Round with tail elastomer cored double-layer knitted wire mesh gasket

## Materials

### Knitted Wire Mesh

- Tin-plated phosphor bronze (Sn/Ph/Bz). Wire diameter: 0.114 mm, comply with ASTM-B-105.
- Tin-plated copper clad steel (Sn/Cu/Fe). Wire diameter: 0.114 mm, comply with ASTM-B-520
- Monel. Wire diameter: 0.114 mm, comply with QQN-281 AMS-4730.

### Elastomer Core

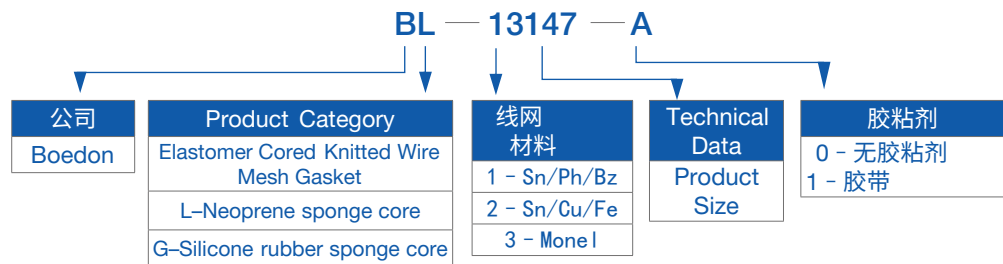
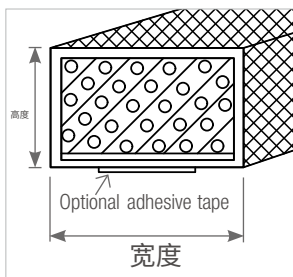
- Neoprene foamed rubber. Comply with MIL-R-6031, type II, grade A, ordinary, temperature ranges from -30 °C to +100 °C.
- Silicone foamed rubber. Comply with AMS-3159, temperature ranges from -75 °C to +205 °C.
- Solid silicone rubber. Comply with ZZ-R-765, temperature ranges from -60 °C to +260 °C.

## 电磁屏蔽效果

The best EMI shielding effectiveness is achieved when the double-layer knitted wire mesh gasket is compressed to 75% of its original height. The shielding effectiveness of the single-layer knitted wire mesh gasket is reduced by 5–10 dB and the shielding effectiveness of knitted wire mesh with double-layer above will not significantly increased.

材料	磁场	电场	平面波	
	100千赫 分贝	10兆赫 分贝	1吉赫 分贝	10吉赫 分贝
Sn/Ph/Bz	80	130	95	95
Sn/Cu/Fe	60	125	80	80
Monel	60	125	80	80

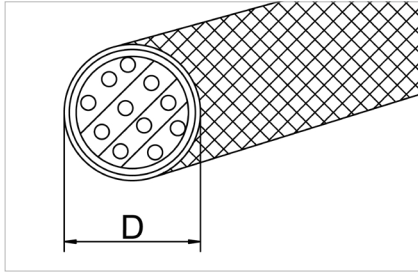
## Rectangular Elastomer Cored Double-Layer Knitted Wire Mesh Gasket



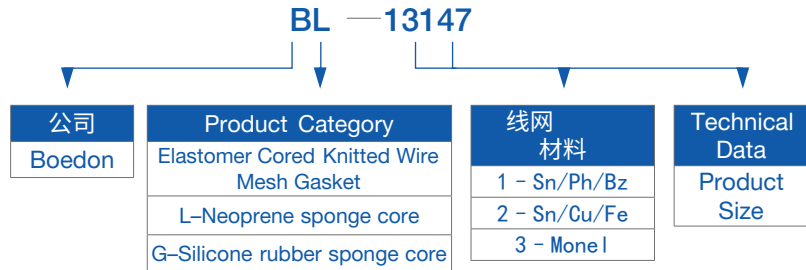
Width: 3.18 - 12.70 mm  
Height: 3.18 - 12.70 mm

Elastomer Size Minimum Height × Width (mm)	Neoprene Sponge Core			Silicone Rubber Sponge Core		
	Sn/Ph/Bz	Sn/Cu/Fe	Monel	Sn/Ph/Bz	Sn/Cu/Fe	Monel
3.18 × 3.18			BL-33131			
3.18 × 4.78	BL-13147	BL-23147	BL-33147	BG-13147	BG-23147	BG-33147
3.18 × 6.35	BL-13163	BL-23163	BL-33163	BG-13163	BG-23163	BG-33163
3.18 × 9.53	BL-13195	BL-23195	BL-33195	BG-13195	BG-23195	BG-33195
4.78 × 4.78	BL-14747	BL-24747	BL-34747	BG-14747	BG-24747	BG-34747
4.78 × 9.53	BL-14795	BL-24795	BL-34795	BG-14795	BG-24795	BG-34795
6.35 × 12.70			BL-36312			
9.53 × 6.35			BL-39563			
9.53 × 12.70			BL-39512			
12.70 × 12.70			BL-31212			

## Round Elastomer Cored Double-Layer Knitted Wire Mesh Gasket

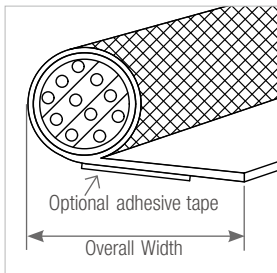


Diameter: 1. 60- 12.70 mm



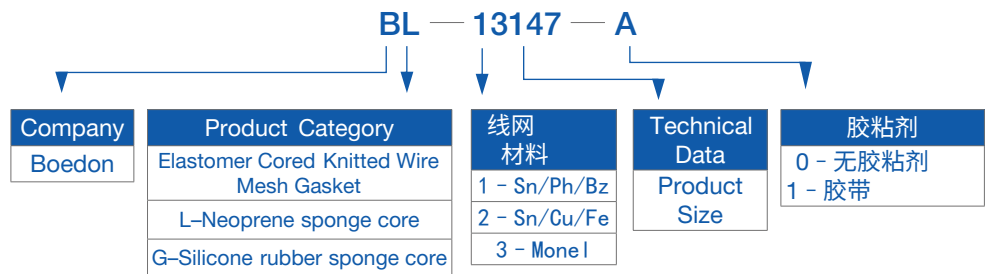
Elastomer Size Minimum Height × Width (mm)	Neoprene Sponge Core			Silicone Rubber Sponge Core		
	Sn/Ph/Bz	Sn/Cu/Fe	Monel	Sn/Ph/Bz	Sn/Cu/Fe	Monel
1.60					BG-216	
3.18	BL-131	BL-231	BL-331	BG-131	BG-231	BG-331
4.78	BL-147	BL-247	BL-347	BG-147	BG-247	BG-347
6.35	BL-163	BL-263	BL-363	BG-163	BG-263	BG-363
7.92		BL-279	BL-379		BG-279	BG-379
9.53		BL-295	BL-395		BG-295	BG-395
12.70		BL-212	BL-312		BG-212	BG-312

## Round with Tail Elastomer Cored Double-Layer Knitted Wire Mesh Gasket



Diameter: 3.18- 6.35 mm

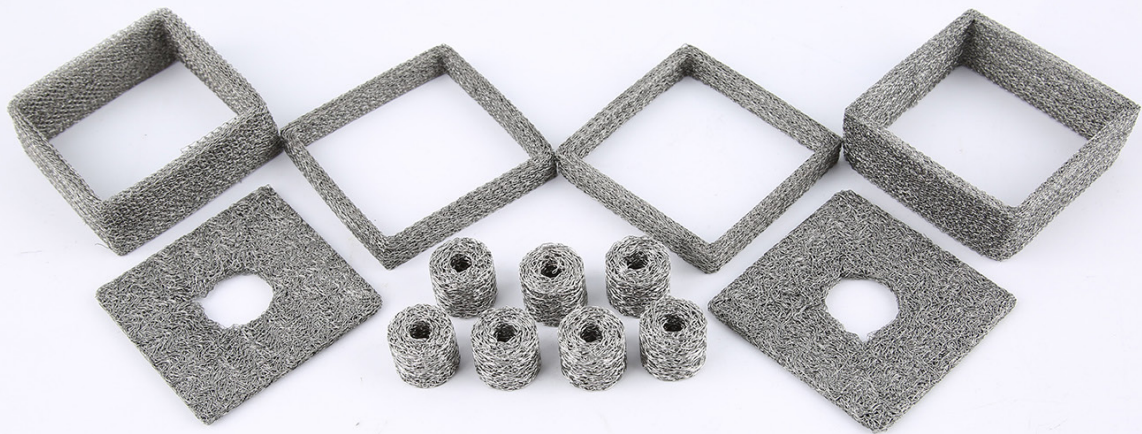
Overall Width: 12.70- 19.05 mm



Elastomer Size Minimum Height × Width (mm)	Neoprene Sponge Core			Silicone Rubber Sponge Core		
	Sn/Ph/Bz	Sn/Cu/Fe	Monel	Sn/Ph/Bz	Sn/Cu/Fe	Monel
3.18 × 12.70	BL-13112	BL-23112	BL-33112	BG-13112	BG-23112	BG-33112
3.18 × 15.88	BL-13115	BL-23115	BL-33115	BG-13115	BG-23115	BG-33115
3.18 × 19.05	BL-13119	BL-23119	BL-33119	BG-13119	BG-23119	BG-33119
4.78 × 12.70	BL-14712	BL-24712	BL-34712	BG-14712	BG-24712	BG-34712
4.78 × 15.88	BL-14715	BL-24715	BL-34715	BG-14715	BG-24715	BG-34715
4.78 × 19.05	BL-14719	BL-24719	BL-34719	BG-14719	BG-24719	BG-34719
4.78 × 25.40	BL-14725	BL-24725	BL-34725	BG-14725	BG-24725	BG-34725
6.35 × 19.05	BL-16319	BL-26319	BL-36319	BG-16319	BG-26319	BG-36319



## Compressed Knitted Wire Mesh Gasket



Compressed knitted wire mesh gasket is formed by die-compressing a certain amount of knitted wire mesh gasket that contains no joints or splices, featuring excellent EMI shielding effectiveness, adjustable density (14%–20%), good performance, low price and easy installation.

Although most common are rings, gaskets can also be produced in rectangular or special shapes with holes or mounting recesses, corner radii, and other custom features.



**BOEDON** Industech 有限公司

# Weave Impossible to Possible



**E-Mail:** [sales@boedon.com](mailto:sales@boedon.com)

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