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Composite conductive elastomer

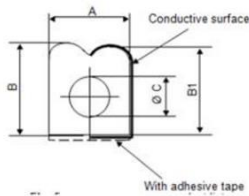


Brief introduction

1. Composite conductive elastomer is made of conductive rubber and non-conductive rubber by special process

2. Compared with ordinary extruded conductive elastomer products, it has the characteristics of low cost, easy installation and easy compression

Product Details



The double-layer highly conductive silicone rubber seal is composed of conductive and non-conductive parts by special technology. The thin conductive layer makes the material have good and stable conductivity and shielding effect. The high elastic non-

conductive part makes the material have good water vapor sealing effect and high mechanical properties.

The silicone rubber matrix makes the composite material have a wide range of high and low temperature and a long service life; The strong chemical bond between the two parts makes the material layer difficult to peel off, and has excellent resistance to mold and salt spray corrosion.

The double-layer highly conductive silicone rubber seal is widely used in the anti-electromagnetic interference of military electronic equipment such as aviation, aerospace and maritime, as well as the sealing of medical diagnostic equipment, computers and electric vehicles, industrial control cases and communication base stations requiring high waterproof grade and excellent electromagnetic shielding efficiency.

Data

Filler	AG/AL	Ni/C	
Color	Light yellow	Black	
Volume Res.	<0.008 Ohms-cm	<0.1 Ohms-cm	MIL-G-83528C
Thermal aging body resistance	<0.01 Ohms-cm @ 150°C/48hrs	<0.15 Ohms-cm @ 150°C/48hrs	MIL-G-83528

Hardness	65±5	60±10 Shore A	ASTM D2240
Density	1.9±0.25 g/cm ³	2.1±0.25 g/cm ³	ASTM D792
tensile strength	≥200PSI	≥200PSI	ASTM D412
Elongation	>100%~300%	>100%~300%	ASTM D412
Compressive permanent deformation	<30%, 70hrs.@100℃	<30%, 70hrs.@100℃	ASTM-D395 Method B
Temperature	-50℃~160℃	-50℃~160℃	

EMI shielding effectiveness:

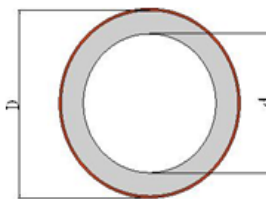
	AG/AL	Ni/C
200MHz(E-Field)	60	50
100MHz(E-Field)	115	100
500MHz(E-Field)	110	100
1GHz(Plane Wave)	105	90
2GHz(Plane Wave)	105	90
10GHz(Plane Wave)	100	90

The main characteristics

- 1.Excellent, stable conductivity and electromagnetic shielding effect;
- 2.Good water vapor tightness and excellent mechanical properties;
- 3.Mold and salt spray corrosion resistance, wide working temperature, long service life;
4. Low cost, easy installation, easy compression.

Catalogue

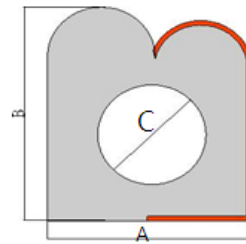
Hollow shape conductive elastomer



Part number	Size (mm)	
	OD	ID
ET-1101-xx	1.02	0.51
ET -1110-xx	1.14	0.56
ET -1120-xx	1.35	0.51
ET -1130-xx	1.57	0.64
ET -1140-xx	1.80	0.71
ET -1150-xx	1.85	1.12
ET -1160-xx	1.98	0.71
ET -1170-xx	2.29	0.99

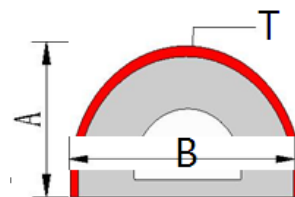
ET -1180-xx	2.49	1.00
ET -1190-xx	2.62	1.12
ET -1200-xx	2.80	1.01
ET -1210-xx	3.18	1.57
ET -1220-xx	3.96	2.36
ET -1230-xx	4.75	2.77
ET -1240-xx	5.11	3.18
ET -1250-xx	5.56	3.58
ET -1260-xx	6.35	4.37
ET -1270-xx	7.92	5.56
ET -1280-xx	9.53	6.76
ET -1290-xx	11.10	7.95
ET -1300-xx	12.70	9.12
ET -1310-xx	15.90	12.30
XX: -01—Al/sliver; -02—Glass/sliver; -03—Nickel/Silver; -04—Sliver		

B shape



Part number	Size(mm)		
	A	B	C
ET -2100-xx	2.1	2.1	0.1
ET -2110-xx	3.2	3.63	2.06
ET -2120-xx	3.4	3.99	2.31
ET -2130-xx	2.9	3.30	1.17
ET -2140-xx	3.0	4.04	1.80
ET -2150-xx	5.16	4.90	2.36
ET -2160-xx	6.35	6.50	2.79
ET -2170-xx	9.53	9.65	4.79
XX: -01—Al/sliver; -02—Glass/sliver; -03—Nickel/Silver; -04—Sliver			

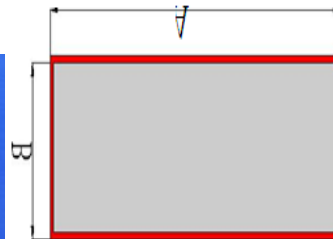
D shape



Part number	Size (mm)		
	A	B	T
ET -3100-xx	3.96	1.57	0.41
ET -3110-xx	1.47	1.57	0.3
ET -3120-xx	6.35	2.70	0.43
ET -3130-xx	2.49	2.49	0.51
ET -3140-xx	2.77	3.17	0.61
ET -3150-xx	3.71	3.71	0.41
ET -3160-xx	6.35	5.94	0.4
ET -3170-xx	4.37	4.75	0.76
ET -3180-xx	7.54	7.92	0.86
ET -3190-xx	9.12	9.53	1.02
ET -3200-xx	10.7	11.10	1.02

XX:
-01—Al/sliver; -02—Glass/sliver; -03—Nickel/Silver; -04—Sliver

Flat

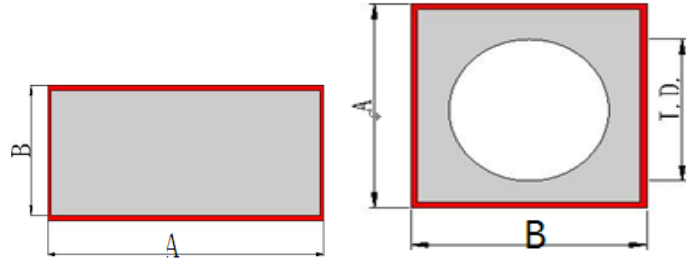


Part number	Size (mm)	
	A	B
ET -4100-xx	25.4	3.18
ET -4110-xx	21.00	0.6
ET -4120-xx	25.40	2.03
ET -4130-xx	3.18	1.02
ET -4140-xx	6.35	1.57
ET -4150-xx	9.53	1.57
ET -4160-xx	12.00	0.76
ET -4170-xx	12.0	1.57
ET -4180-xx	12.70	0.38
ET -4190-xx	19.10	1.88

XX:

-01—Al/sliver; -02—Glass/sliver; -03—Nickel/Silver; -04—Sliver

Rectangle



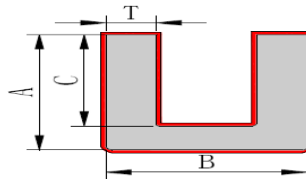
Part number	Size (mm)		
	A	B	C
ET -5100-xx	6.35	6.35	3.81
ET -5110-xx	9.53	9.53	6.35

XX:
-01—Al/sliver; -02—Glass/sliver; -03—Nickel/Silver; -04—Sliver

Part number	Size (mm)		
	A	B	I.D
20-5120-xx	1.52	1.52	0.79
20-5130-xx	3.17	3.17	1.98
20-5140-xx	3.30	5.08	2.29
20-5150-xx	3.40	3.40	2.00
20-5160-xx	6.35	6.35	3.96
20-5170-xx	9.53	9.53	7.14
20-5180-xx	6.35	9.53	5.11
20-5190-xx	11.50	10.50	8.20
20-5200-xx	11.50	11.53	8.20

XX:
-01—Al/sliver; -02—Glass/sliver; -03—Nickel/Silver; -04—Sliver

U shape



Part number	Size (mm)			
	A	B	C	T
ET -6100-xx	3.10	2.45	2.10	0.77
ET -6110-xx	3.96	3.96	2.79	1.02
ET -6120-xx	6.35	6.35	4.78	1.57
ET -6130-xx	9.53	9.53	1.54	1.98

XX:
-01—Al/sliver; -02—Glass/sliver; -03—Nickel/Silver; -04—Sliver

Application

Electronic screen door gasket Electrostatic discharge (ESD)

