

双层导电橡胶条

一、双层导电橡胶条特点：

表层导电、里层不导电

具备 EMI 屏蔽及环境密封双重作用

耐压性好、节省成本

屏蔽效能：110dB, 1MHz-10GHz MIL-STD-285

工作温度：-60℃~+270℃

原材料：内层：硅橡胶 外层：导电橡胶

订货信息：

5000- **

5000：型号

** 01：加 Ag 银 导电颗粒导电橡胶

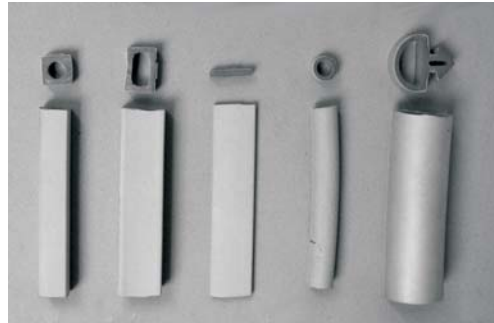
05：加 Ag/Glass 玻璃球镀银导电颗粒导电橡胶

03：加 Ag/Al 铝镀银导电颗粒导电橡胶

例：5000-05 表示 P 型双层导电橡胶条，导电成份为 Ag/Glass（玻璃球镀银）

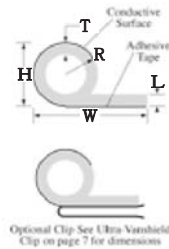
5000-01 表示 P 型双层导电橡胶条，导电成份为 Ag（银）

5000-03 表示 P 型双层导电橡胶条，导电成份为 Ag / Al（铝镀银）



二、规格尺寸

1) P 型双层导电橡胶屏蔽条



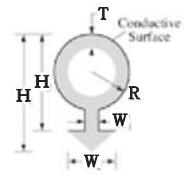
Part #	H	W	L	R	T
5000	.040 1,02	.250 6,35	.028 0,71	.020 0,51	.015 0,38
5010	.062 1,57	.250 6,35	.032 0,81	.031 0,79	.016 0,41
5070	.078 1,98	.250 6,35	.036 0,91	.039 0,99	.016 0,41
5080	.088 2,24	.250 6,35	.036 0,91	.044 1,12	.016 0,41
5090	.098 2,49	.250 6,35	.038 0,97	.049 1,24	.016 0,41
5100	.125 3,17	.250 6,35	.040 1,02	.062 1,57	.023 0,58
5150	.125 3,17	.375 9,53	.040 1,02	.062 1,57	.023 0,58
5200	.187 4,75	.375 9,53	.040 1,02	0.94 2,39	.028 0,71
5300	.250 6,35	.500 12,70	.050 1,27	.125 3,17	.029 0,74
5500	.375 9,53	.625 15,90	.055 1,40	.188 4,78	.040 1,02
5510	.393 9,96	.750 19,10	.045 1,14	.197 5,00	.040 1,02
5600*	.438 11,10	.750 19,10	.060 1,52	.219 5,56	.045 1,14
5700*	.500 12,70	.875 22,20	.065 1,65	.250 6,35	.050 1,27

2) 圆箭型双层导电橡胶屏蔽条

Part #	H1		H2		W1		W2		R		T	
1020	.236	5,99	.177	4,50	.059	1,50	.141	3,58	.059	1,50	.020	0,51
1050	.308	7,82	.234	5,94	.062	1,57	.142	3,61	.088	2,23	.032	0,81
1100	.437	11,10	.350	8,89	.071	1,80	.172	4,37	.138	3,50	.035	0,89
1200	.590	14,94	.500	12,70	.081	2,06	.224	5,69	.210	5,33	.045	1,14
1250	.625	15,90	.500	12,70	.093	2,36	.234	5,94	.219	5,56	.035	0,89

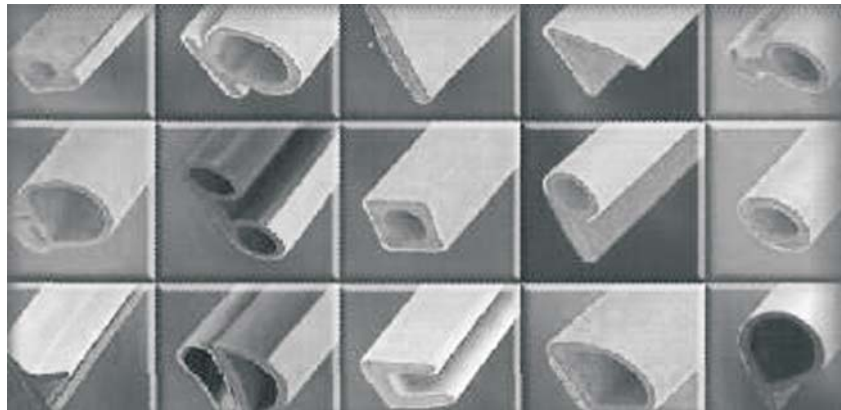
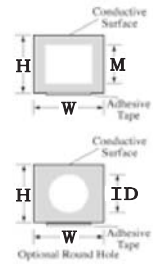
3) 空芯方型双层导电橡胶屏蔽条

Part #	H		W		M	
8250	.250	6,35	.250	6,35	.150	3,81
8375	.375	9,53	.375	9,53	.250	6,35



4) 空芯圆型双层导电橡胶屏蔽条

Part #	H		W		ID	
8062	.060	1,52	.060	1,52	.031	0,79
8125	.125	3,17	.125	3,17	.078	1,98
8130	.130	3,30	.200	5,08	.090	2,29
8134	.134	3,40	.134	3,40	.078	2,00
8251	.250	6,35	.250	6,35	.156	3,96
8376	.375	9,53	.375	9,53	.281	7,14
8380	.250	6,35	.375	9,53	.201	5,11
8453	.453	11,50	.413	10,50	.323	8,20
8454	.453	11,50	.454	11,53	.323	8,20



5) 角叠型双层导电橡胶屏蔽条



Part #	H	W	T
4125	.125 3, 18	.250 6, 35	.031 0, 79
4188	.188 4, 78	.250 6, 35	.040 0, 98
4250	.250 6, 35	.312 7, 92	.043 1, 09
4312	.312 7, 92	.344 8, 74	.055 1, 40
4406	.406 10, 30	.437 11, 10	.062 1, 58
4630	.650 16, 51	.625 15, 88	.080 2, 03

6) U型管双层导电橡胶屏蔽条

Part #	H	W	D	T	Panel Mounting Width(Range)
9118	.122 3, 10	.096 2, 45	.083 2, 10	.030 0, 77	.040-.048 1, 00-1, 22
9156	.156 3, 96	.156 3, 96	.110 2, 79	.040 1, 02	.080-.097 2, 03-2, 47
9250	.250 6, 35	.250 6, 35	.188 4, 78	.062 1, 57	.130-.150 3, 30-3, 81
9375	.375 9, 53	.375 9, 53	.297 1, 54	.078 1, 98	.224-.244 5, 69-6, 20

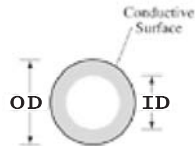
7) 圆型球茎状双层导电橡胶屏蔽条

Part #	H	W	S	T
10125	.125 3, 18	.118 2, 99	.039 0, 99	.030 0, 76
10250	.250 6, 35	.234 5, 94	.055 1, 40	.039 1, 00
10500	.472 11, 90	.469 11, 90	.062 1, 58	.062 1, 57
10550	.500 12, 70	.500 12, 70	.062 1, 58	.042 1, 07

8) D 箭型双层导电橡胶屏蔽条

Part #	H	D	S	T	W1	W2	W3
3020	.323 8, 20	.235 5, 97	.065 1, 65	.053 1, 35	.143 3, 63	.270 6, 90	.500 12, 70
3060	.500 12, 70	.328 8, 33	.078 1, 98	.062 1, 58	.093 2, 36	.093 2, 36	.625 15, 90
3125	.125 3, 18	.250 6, 35	.059 1, 50	.141 3, 58	.250 6, 35	.024 0, 61	.062 1, 57
3312	.312 7, 92	.500 12, 70	.078 1, 98	.203 5, 16	.500 12, 70	.032 0, 81	.078 1, 98
3406	.406 10, 30	.625 15, 90	.083 2, 11	.236 5, 99	.625 15, 90	.036 0, 91	.083 2, 11

9) 圆型双层导电橡胶屏蔽条



Part #	O. D.	I. D.
2050	.030 0,76	n/a n/a
2100	.040 1,02	.020 0,51
2110-NH	.040 1,02	n/a n/a
2125	.045 1,14	.022 0,56
2130	.053 1,35	.016 0,41
2140	.053 1,35	.020 0,51
2150	.062 1,57	.025 0,64
2155	.071 1,80	.028 0,71
2157	.073 1,85	.044 1,12
2170	.078 1,98	.028 0,71
2185	.090 2,29	.039 0,99
2200	.098 2,49	.039 1,00
2210	.103 2,62	.044 1,12
2220	.110 2,80	.040 1,01
2250	.125 3,18	.062 1,57
2251	.125 3,18	.078 1,98
2300	.156 3,96	.093 2,36
2350	.187 4,75	.109 2,77
2375	.201 5,11	.125 3,18
2400	.219 5,56	.141 3,58
2450	.250 6,35	.172 4,37
2500	.312 7,92	.219 5,56
2550	.375 9,53	2.66 6,76
2600	.438 11,10	.313 7,95
2610	.438 11,10	.252 6,40
2650	.500 12,70	.359 9,12
2700	.625 15,90	.484 12,30

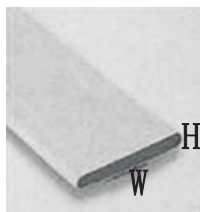
10) D 型双层导电橡胶屏蔽条



Part #	H	W	R	T
6050	.032 0,81	.030 0,73	.015 0,38	.012 0,32
6062	.062 1,57	.156 3,96	.102 2,59	.016 0,41
6100	.062 1,57	.058 1,57	.031 0,78	.012 0,30
6106	.106 2,70	.250 6,35	.125 3,18	.017 4,43
6190	.098 2,49	.098 2,49	.049 1,24	.020 0,51
6200	.125 3,17	.109 2,77	.055 1,40	.024 0,61
6210	.146 3,71	.146 3,71	.073 1,85	.016 0,41
6300	.187 4,75	.172 4,37	.094 2,39	.030 0,76
6370	.240 6,1	.460 11,68	.230 5,84	.040 1,02
6400	.250 6,35	.234 5,94	.125 3,17	.037 0,94
6425	.250 6,35	.375 9,53	.188 4,77	.037 0,94
6500	.312 7,92	.297 7,54	.156 3,96	.034 0,86
6600*	.375 9,53	.359 9,12	.187 4,75	.040 1,02
6700*	.437 11,10	.422 10,70	.218 5,54	.040 1,02

Part #	H	W	R	T
6050	.032 0,81	.030 0,73	.015 0,38	.012 0,32
6062	.062 1,57	.156 3,96	.102 2,59	.016 0,41
6100	.062 1,57	.058 1,57	.031 0,78	.012 0,30
6106	.106 2,70	.250 6,35	.125 3,18	.017 4,43
6190	.098 2,49	.098 2,49	.049 1,24	.020 0,51
6200	.125 3,17	.109 2,77	.055 1,40	.024 0,61
6210	.146 3,71	.146 3,71	.073 1,85	.016 0,41
6300	.187 4,75	.172 4,37	.094 2,39	.030 0,76
6370	.240 6,1	.460 11,68	.230 5,84	.040 1,02
6400	.250 6,35	.234 5,94	.125 3,17	.037 0,94
6425	.250 6,35	.375 9,53	.188 4,77	.037 0,94
6500	.312 7,92	.297 7,54	.156 3,96	.034 0,86
6600*	.375 9,53	.359 9,12	.187 4,75	.040 1,02
6700*	.437 11,10	.422 10,70	.218 5,54	.040 1,02

11) 带状双层导电橡胶屏蔽条



Part #	H	W
7000	.125 3,18	1.00 25,40
7030	.030 0,76	.827 21,00
7062	.040 1,02	.062 1,57
7080	.080 2,03	1.00 25,40
7125	.040 1,02	.125 3,18
7250	.062 1,57	.250 6,35
7375	.062 1,57	.375 9,53
7472	.030 0,76	.472 12,00
7500	.062 1,57	.500 12,70
7550	.015 0,38	.500 12,70
7750	.074 1,88	.750 19,10
7870	.070 1,78	.827 21,00
7871	.093 2,36	.827 21,00
7875	.090 2,29	.875 22,23

12) 双D型环境密封双层导电橡胶屏蔽条

Part #	H1	H2	W	D
16078	.084 2,13	.078 1,98	.078 1,98	.036 0,91
16114	.130 3,30	.125 3,18	.114 2,90	.046 1,17
16118	.159 4,04	.157 3,99	.118 3,00	.071 1,80
16134	.157 3,99	.152 3,86	.134 3,40	.091 2,31
16140	.143 3,63	.140 3,56	.126 3,20	.081 2,06
16187	.193 4,90	.187 4,75	.203 5,16	.093 2,36
16250	.256 6,50	.248 6,30	.250 6,35	.110 2,79
16375	.380 9,65	.372 9,45	.375 9,53	.188 4,78

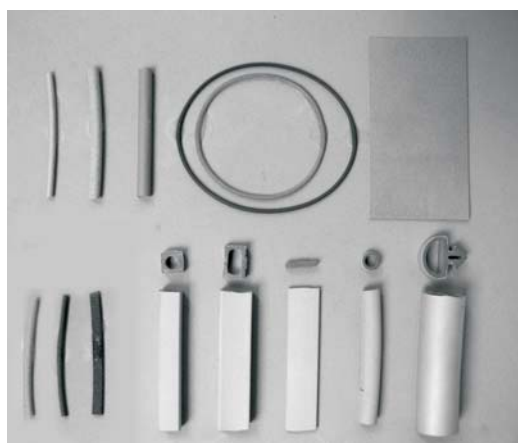
三、产品定型

Part #	1020-	01 -	D50 -	BLU -	NPS -	SPL -	1200
refer to chart	A	B	C	D	E	F	G

A	D
PART NUMBER FROM CATALOG	CORE MATERIAL
	ORA -Orange (STD)
B	GRA -Gray
CONDUCTIVE OUTER LAYER	WHI -White
01 - Standard Silver (Ag)	BLU -Blue
02 - Silver Plated Copper (Ag/Cu)	VIO -Violet
03 - Silver Plated Aluminum (Ag/Al)	BLA -Black
04 - Silver Plated Nickel (Ag/Ni)	RED -Red
05 - Silver Plated Glass Spheres (Ag/GL)	
06 - Gold (Au)	E
07 - Copper (Cu)	MOUNTING TAPE OR CLIP
08 - Nickel (Ni)	NPS -No Pressure Sensitive Tape
09 - Carbon, Low Resistivity (CL)	PSA -Pressure Sensitive Tape (min. width 0.1")
10 - Carbon, Standard (CS)	EPSA - Extended Pressure Sensitive Tape *(see
11 - Silver in Fluorosilicone (AgFK)	below)
12 - Silver in EPDM (AgEP)	CPS -Conductive Pressure Sensitive Tape
13 - Silver in Fluorocarbon (AgFC)	ECPS - Extended Conductive Pressure Sensitive
15 - Silver, Abrasion Resistant (AgX)	Tape *(see below)
16 - Blackened Silver (Ag-Dk)	DCPS -Double Coated Semi-Rigid Pressure
17 - Silver Aluminum (AgAl-Dk)	Sensitive Tape for Stiffness Enhancement
C	
DUROMETER	F
D30 -30 Shore A Durometer	PACKAGING
D50 -50 Shore A Durometer (Standard)	SPL -Spooled on a Reel
D75 -75 Shore A Durometer	CTL -Cut To Length
FR - Flame Resistant, 60 duro. (Brown Only)	COI -Coiled Loosely
SPG -Closed Cell Silicone Sponge	BND -O-Rings, bonded
LOG - Low outgassing silicone	FRM - Mitre-spliced window frame
	G
	LENGTH
	Standard - 1,200 Inches

四、材料性能

Description	Test Specification	VC3200	VC3220	VC3240	VC3260	VC3280	VC3300	VC3600
Suffix	Vanguard	-01	-02	-03	-04	-05	-08	-09
Conductive Matrix	Vanguard	Pure Ag in Silicone	AgCu in Silicone	AgAl in Silicone	AgNi in Silicone	Ag Glass Silicone	Pure Ni in Silicone	Low Resistivity Carbon in Silicone
Outer Jacket Material								
Elastomeric Support	Vanguard	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone
Inner Core Material								
Shielding Effective Frequency:	MIL-G-83528 para. 4. 6. 12							
200 Khz-H-Field		65db	65db	60db	65db	55db	65db	50db
100 KHz E-field		120db	110db	110db	100db	90db	75db	75db
500 MHz E-field		120db	110db	100db	100db	90db	100db	75db
2 GHz Plane wave		110db	100db	95db	95db	90db	95db	70db
10 GHz Plane wave		110db	100db	90db	95db	90db	110db	65db
Volume Resistency	ASTM D991	.001	.003	.005	.006	.010	.050	.500 ohm-cm
Surface Resistivity	V.P.C method V908	.150	.300	.400	.500	.750	2.00	10.0 ohm-Lin. in.
Durometer (Shore A)	ASTM D2240	50	50	50				
Tensile Strength	ASTM D412	1,500	1,500	1,500				p. s. i.
Elongation (5)	ASTM D412	320	320	320	320	320	320	300
Tear Strength (p. p. i.)	ASTM D624	120	120	120	120	120	120	100
Compression Set	1,000 hrs. @72° F	0%	0%	0%	0%	0%	0%	0%
Compression Set	70 hrs. @300° F	12%	12%	12%	12%	1' 2%	12%	10%
Life Test	1,000 hrs. @275° F then 48 hrs. @340° F	.004	.015	.018	.012	.027	.500	.650
Humidity Test	MIL-STD-202F Method	.006	.020	.025	.021	.020	.400	.550



Description	Test Specification	VC3200	VC3220	VC3240	VC3260	VC3280	VC3300	VC3600
Suffix	Vanguard	-10	-11	-12	-13	-15	-16	-17
Conductive Matrix (Outer Jacket Material)	Vanguard	Standard Carbon in Silicone	AgCu in Silicone	AgAl in Silicone	AgNi in Silicone	Ag Glass in Silicone	Pure Ni in Silicone	Low Resistivity Carbon in Silicone
Elastomeric Support Matrix (Inner Core Material)	Vanguard	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone
Shielding Effectiveness (db) Frequency: 200 Khz-H-Field 100 KHz E-field 500 MHz E-field 2 GHz Plane wave 10 GHz Plane wave	MIL-G-83528 para. 4. 6. 12	30 50 55 45 40	65 120 120 110 105	50 80 80 75 70	55 85 80 80 75	65 120 120 110 110	65 120 120 120 110	65 110 110 100 90
Volume Resistency (ohm-cm)	ASTM D991	4. 00	. 002	. 050	. 100	. 002	. 001	. 005
Surface Resistivity (ohm-Lin. in.)	V. P. C method V908	60. 0	. 250	1. 40	1. 30	. 200	. 050	. 400
Durometer (Shore A)	ASTM D2240	70	50	65	65	45	50	50
Tensile Strength (p. s. i.)	ASTM D412	875	1, 200	950	1, 800	1, 300	1, 500	1, 500
Elongation (5)	ASTM D412	240	250	210	220	230	320	320
Tear Strength (p. p. i.)	ASTM D624	100	80	170	200	100	120	100
Compression Set (room temp.)	1, 000 hrs. @72° F	0%	0%	4%	2%	0%	0%	0%
Compression Set (dry heat)	70 hrs. @300° F	10%	15%	20%	20%	10%	10%	10%
Life Test (vol. res. after heat aging)	1, 000 hrs. @275° F then 48 hrs. @340° F	6. 00	. 005	. 220	. 190	. 004	. 002	. 008
Humidity Test (vol. res. after steady-state exposure to moisture)	MIL-STD-202F Method 103B test condition No. 4 240 hrs. @104° F 90-95%R. H.	4. 50	. 005	. 300	. 200	. 005	. 004	. 016