

# Conductive Particle Filled Elastomers



## Description:

These elastomers are a unique composite of high quality silicone and conductive microscopic particles, manufactured to strict formulations, yielding gasketing materials that meet nearly every military and/or electronic requirement. Metal Textiles produces a wide variety of conductive elastomers to choose from. This enables you, the user, to select the best-suited compound for your application; keeping in mind not only performance characteristics, but economics as well. If you fail to find the perfect compound to fit your needs, within our current listing, we will custom compound.

### Conductive Elastomers Specifications

Military Grade / Standard Silicone
Military Grade / Fluorosilicone
Military Grade / EPDM
Military Grade/ Fluoroelastomer Co-polymer
Military Grade/ Combination: Conductive / Non-conductive
Commercial Grade / Standard Silicone
Commercial Grade / Fluorosilicone
Silver Coated Silicone
One Part "Form-In-Place" Gasket Material
Two Part Room Temperature Cure "Form-In-Place" Material

### Standard Conductive Fillers

Non-Corrosive Particle
Carbon
Nickel
Silver Plated Glass
Silver Plated Nickel
Silver Plated Aluminum
Silver Plated Copper
Silver - Low Density
Silver - High Density
Reinforced Silver Plated Copper

### Standard Shapes

Sheet Stock
Extrusion - Round
Extrusion - Rectangular
Extrusion - "D-Shaped"
Extrusion - "P-Shaped"
Extrusion - "U-Channel"
O-Rings
Flat Washer
Standard Connector
Standard Waveguide

## Application:

Frequently, your applications may require extremely high shielding effectiveness, environmental sealing, reliability, and durability. Metal Textiles's family of conductive silicone elastomers can fill these needs.

Commercial grade shielding elastomers are for those applications that require slightly less performance and are price sensitive. The Military Grade material is produced to meet the more demanding EMI/RFI requirements of our industry, and can be certified to meet the requirements of MIL-DTL-83528, Missile and Weapons Specifications.

# Conductive Particle Filled Elastomers Performance Characteristics



## Military Grade Material Types Per MIL-DTL-83528

Series	U of M	11C	11	31	12	32	13	33	14	34
Filler	—	C	Ni/Gr	Ni/Gr	AG/Glass	AG/Glass	AG/Ni	AG/Ni	AG/Al	AG/Al
Elastomer	—	Silicone	Silicone	Fluoro-silicone	Silicone	Fluoro-silicone	Silicone	Fluoro-silicone	Silicone	Fluoro-silicone
MIL-83528 TYPE	—	—	—	—	M	—	L	—	B	D
Operating Temp. (°C)	Min	-55	-55	-55	55	55	-55	-55	-55	-55
	Max	+200	+150	+150	+160	+160	+125	+160	+160	+160
Hardness	Shore A	70	30-70	65	65	65	75	70	65	70
Specific Gravity	g/cc	1.2	1.95	1.95	1.9	1.9	4.0	4.4	2.0	2.0
Compression Deflection	% min	3.5	3.5	3.0	3.5	3.5	3.5	3.5	3.5	3.5
Tensile Strength	#/in sq	650	150	150	200	200	200	180	200	180
Elongation	Min	100	100	100	100	100	100	60	100	60
	Max	—	—	—	300	300	300	260	300	260
Compression Set	%	40	35	25	30	30	32	30	32	30
Tear Strength	#/in	40	40	35	30	30	30	35	30	35
Volume Res.	Ohm-cm	7.0	.10	0.1	.006	.006	.005	.012	.008	.012
Shielding Effectiveness as tested per Mil-DTL-83528	100 MHz	80	100	100	100	100	120	120	120	120
	500 MHz	80	100	100	100	90	120	120	120	120
	2 GHz	60	100	100	90	90	120	115	115	115
	10 GHz	50	100	100	90	90	110	110	115	115

Series	U of M	15	35	15K	16	17	26	16H	15G	11E
Filler	—	Silver Copper	Silver Copper	Silver Copper	Silver Low Density	Silver Pure	Silver Pure	Silver Pure	Silver Copper	Nickel Graphite
Elastomer	—	Silicone	Fluoro-silicone	Silicone	Silicone	Silicone	Fluoro-silicone	Silicone	Silicone	EPDM
MIL-83528 TYPE	—	A	C	K	J	E	F	H	G	N/A
Operating Temp. (°C)	Min	-55	-55	-45	-55	-55	-65	-55	-45	-30
	Max	+125	+125	+125	+160	+160	+160	+160	+125	+100
Hardness	Shore A	65	75	85	45	65	75	80	80	75
Specific Gravity	g/cc	3.5	4.1	3.8	1.8	3.5	4.0	4.0	4.75	2.1
Compression Deflection	% min	3.5	3.5	2.5	8.0	2.5	3.5	2.5	2.5	2.0
Tensile Strength	#/in sq	200	180	400	150	300	250	400	600	200
Elongation	Min	100	100	100	50	200	100	90	20	75
	Max	300	300	300	250	500	300	290	N/A	—
Compression Set	%	32	35	35	35	45	60	60	N/A	40
Tear Strength	#/in	25	35	40	20	50	40	60	70	70
Volume Res.	Ohm-cm	.004	.010	.005	.010	.002	.002	.005	.007	5
Shielding Effectiveness as tested per Mil-DTL-83528	100 MHz	120	120	120	100	120	120	120	120	90
	500 MHz	120	120	120	100	120	120	120	120	90
	2 GHz	120	120	120	90	120	120	120	120	80
	10 GHz	120	115	120	90	120	120	120	120	80

## Commercial Grade Material Types

Series	08	02	03	04	05	06	07
Filler	Pure Nickel	Silver Glass	Silver Nickel	Silver Aluminum	Silver Copper	Silver Low Density	Silver Pure
Operating Temp. (C) MIN	-55	-55	-55	-55	-55	-55	-65
Operating Temp. (C) MAX	+125	+170	+180	+200	+125	+160	+180
Specific Gravity	3.05	1.8	4.0	2.0	3.5	1.7	4.0
Hardness Available (Shore A)	45-75	45-75	45-75	45-75	45-75	45-75	45-75
Tensile Strength (# / in. sq)	400	200	200	200	200	150	200
Elongation * (%)	300	280	300	280	300	100	300
Tear Strength* (#/in)	40	35	35	35	35	25	60
Volume Res.* (ohm-cm)	2.0	.05	.06	.08	.06	.1	.04
Shielding Effectiveness (20 MHz – 1 GHz) min	60	75	80	75	85	70	85

# Conductive Particle Filled Elastomers Series 720



## Standard Sheet Stock

Item No.	Thickness	Sheet Size	Tolerance
01	.020	10 x 10	+/- .004
02	.032	10 x 10	+/- .004
03	.062	10 x 10	+/- .005
04	.093	10 x 10	+/- .007
05	.125	10 x 10	+/- .010
06	.020	12 x 12	+/- .004
07	.032	12 x 12	+/- .004
08	.062	12 x 12	+/- .005
09	.093	12 x 12	+/- .007
10	.125	12 x 12	+/- .010
11	.020	15 x 20	+/- .004
12	.032	15 x 20	+/- .005
13	.062	15 x 20	+/- .005
14	.093	15 x 20	+/- .008
15	.125	15 x 20	+/- .010
16	.020	17.8 x 20.5	+/- .005
17	.032	17.8 x 20.5	+/- .005
18	.062	17.8 x 20.5	+/- .005
19	.093	17.8 x 20.5	+/- .008
20	.125	17.8 x 20.5	+/- .010
21	.027	10 x 10	+/- .004
22	.030	10 x 10	+/- .004
23	.040	10 x 10	+/- .004
24	.047	10 x 10	+/- .004
25	.060	10 x 10	+/- .005
26	.027	12 x 12	+/- .004
27	.030	12 x 12	+/- .004
28	.040	12 x 12	+/- .004
29	.047	12 x 12	+/- .004
30	.060	12 x 12	+/- .005
31	.027	15 x 20	+/- .004
32	.030	15 x 20	+/- .004
33	.040	15 x 20	+/- .005
34	.047	15 x 20	+/- .005
35	.060	15 x 20	+/- .005
36	.027	17.8 x 20.5	+/- .005
37	.030	17.8 x 20.5	+/- .005
38	.040	17.8 x 20.5	+/- .005
39	.047	17.8 x 20.5	+/- .005
40	.060	17.8 x 20.5	+/- .005
41	.020	10 x 20	+/- .004
42	.027	10 x 20	+/- .004
43	.030	10 x 20	+/- .004
44	.032	10 x 20	+/- .005
45	.040	10 x 20	+/- .005
46	.047	10 x 20	+/- .005
47	.060	10 x 20	+/- .005
48	.062	10 x 20	+/- .005
49	.093	10 x 20	+/- .008
50	.125	10 x 20	+/- .010
51	.020	12 x 18	+/- .004
52	.027	12 x 18	+/- .004
53	.030	12 x 18	+/- .004
54	.032	12 x 18	+/- .005
55	.040	12 x 18	+/- .005
56	.047	12 x 18	+/- .005
57	.060	12 x 18	+/- .005
58	.062	12 x 18	+/- .005
59	.093	12 x 18	+/- .008
60	.125	12 x 18	+/- .010

## Outgassing Of Conductive Elastomers

Many of the conductive elastomers produced by Metal Textiles Silicone are silicone compounds. Due to the high electrical insulative properties of silicone, there has been growing concern that the outgassing of volatile residues from silicone based conductive compounds may interfere with critical electrical contacts. **NASA** has set specification limits for both the **Total Mass Loss (TML)** and **Collected Volatile Condensable Materials (CVCM)** as determined by ASTM E595-84 for use in spacecraft applications. The normally accepted limit for **TML** is 1.00% and the **CVCM** is 0.10%.

Use of materials meeting the above listed "accepted criteria" does not deem the materials acceptable for your application. Metal Textiles Silicone has specific manufacturing procedures designed to reduce both **TML** and **CVCM** to well below acceptable limits, thereby further reducing the potential detrimental outgassing. Listed below are typical results you can expect of Metal Textiles produced Conductive Silicone Compounds when tested to **ASTM E 595-84**.

Series	Conductive Particle	TML%	CVCM%
18	Nickel	.09	.05
12	Silver Glass	.10	.02
13	Silver Nickel	.09	.03
14	Silver Aluminum	.11	.01
15	Silver Copper	.07	.02
16	Silver, Low Density	.20	.11
17	Silver, High Density	.10	.01

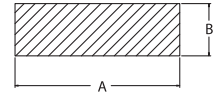
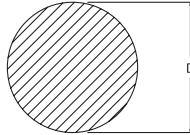
Further testing performed on Metal Textiles Series 15 using test parameters other than that required in ASTM E595 yielded the following results.

Temperature	Time (days)	Vacuum Torr	TML %
Room Temp	14	5 x 10 (-9)	.069
Room Temp	27	8 x 10 (-10)	.20
150°F	6	2 x 10 (-7)	.35
250°F	4	3 x 10 (-7)	.35

# Conductive Particle Filled Elastomers Series 722 Extruded

## Solid Round Stock

Item No.	'D'	M83528 Dash
01	.040	1/001
02	.053	1/002
03	.062	1/003
04	.070	1/004
05	.080	1/005
06	.093	1/006
07	.103	1/007
08	.112	N/A
09	.119	1/008
10	.125	1/009
11	.130	N/A
12	.139	1/010
13	.150	N/A
14	.160	N/A
15	.188	1/011
16	.216	1/012
17	.250	1/013

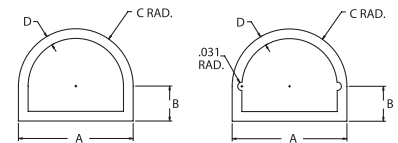
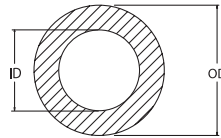


## Solid Rectangle Stock

Item No.	"A"	"B"	M83528 Dash
01	.032	.032	N/A
02	.063	.042	9/001
03	.095	.062	9/002
04	.120	.075	9/003
05	.125	.062	9/004
06	.156	.062	9/005
07	.250	.062	9/006
08	.500	.075	9/007
09	.500	.125	9/008
10	.500	.188	9/009
11	.750	.062	9/010
12	.880	.062	9/011
13	1.000	.250	9/012
14	1.180	.062	9/013
15	.060	.080	N/A

## Hollow Round Stock

Item No.	"OD"	"ID"	M83528 Dash
01	.070	.025	N/A
02	.093	.035	N/A
03	.103	.040	11/007
04	.125	.045	11/001
05	.125	.062	11/006
06	.156	.050	11/002
07	.177	.079	11/008
08	.250	.125	11/003
09	.312	.192	11/004
10	.375	.250	11/005
11	.437	.250	N/A

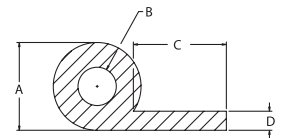
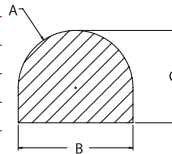


## "D" Profile - Hollow Stock

Item No.	"A"	"B"	"C"	"D"	M83528 Dash
01	.156	.045	.078	.045	N/A
02	.156	.078	.078	.045	7/001a
03	.187	.093	.093	.050	7/002a
04	.250	.125	.125	.065	7/007a
05	.312	.156	.156	.062	7/003a
06	.312	.156	.156	.062	7/004b
07	.487	.080	.244	.080	7/006a
08	.312	.200	.112	.062	7/005a

## "D" Profile - Solid Stock

Item No.	"A"	"B"	"C"	M83528 Dash
01	.031	.055	.064	N/A
02	.031	.062	.068	3/001
03	.047	.062	.068	N/A
04	.047	.094	.078	3/002
05	.039	.078	.089	3/003
06	.047	.094	.094	3/004
07	.031	.062	.100	3/005
08	.075	.150	.110	3/006
09	.061	.122	.131	N/A
10	.061	.124	.136	3/007
11	.059	.118	.156	3/008
12	.078	.156	.156	3/009
13	.089	.178	.175	3/010
14	.094	.188	.188	3/011
15	.125	.250	.250	3/012

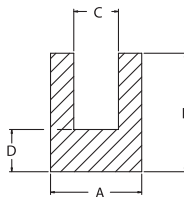


## "P" Profile - Solid Stock

Item No.	"A"	"B"	"C"	"D"	M83528 Dash
01	.200	.080	.275	.062	N/A
02	.200	.080	.650	.062	8/001
03	.250	.125	.250	.062	8/002
04	.250	.125	.375	.062	8/003
05	.250	.150	.375	.062	8/004
06	.250	.125	.625	.062	N/A
07	.312	.187	.563	.062	8/005
08	.360	.255	.420	.070	8/006
09	.200	.080	.275	.062	8/007
10	.250	.125	.625	.062	8/008

## "U" Profile Stock

Item No.	"A"	"B"	"C"	"D"	M83528 Dash
01	.100	.100	.034	.033	10/001
02	.126	.110	.026	.050	10/002
03	.126	.225	.020	.075	10/003
04	.156	.156	.062	.047	10/004
05	.175	.156	.047	.047	N/A
06	.175	.156	.047	.075	10/005
07	.327	.235	.062	.115	10/006



# Conductive Particle Filled Elastomers Series 722 Extruded

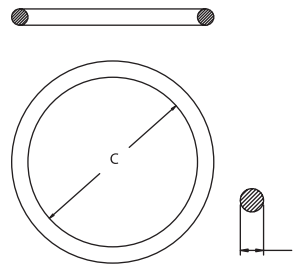
## "O"- Rings

Item No.	CS "B"	I.D. "C"	GRP I	GRP II	GRP III	GRP IV
01	.030	.442	—	—	—	5/001
02	.030	.577	—	—	—	5/002
03	.030	.692	—	—	—	5/003
04	.030	.817	—	—	—	5/004
05	.039	.425	—	—	—	5/005
06	.048	.295	—	—	—	5/006
07	.050	.533	—	—	—	5/007
08	.051	.446	—	—	—	5/008
09	.057	.415	—	—	—	5/009
10	.063	.541	—	—	—	5/010
11	.063	.648	—	—	—	5/011
12	.068	.847	—	—	—	5/012
13	.068	1.182	—	—	—	5/013
14	.068	3.165	—	—	—	5/014
15	.070	.145	—	—	2/007	—
16	.070	.301	—	—	2/011	—
17	.070	.364	—	—	2/012	—
18	.070	.426	—	—	2/013	—
19	.070	.489	—	—	2/014	—
20	.070	.495	—	—	—	5/015
21	.070	.551	6	—	2/015	—
22	.070	.610	—	—	—	5/016
23	.070	.635	—	—	—	5/017
24	.070	.667	—	—	—	5/018
25	.070	.676	8	—	2/017	—
26	.070	.735	—	—	—	—

Different Military specifications call for the same size O-Ring. The following table shows which Military Specs. use common O-Ring Shell or Dash # designators.

The following Item number listing cross-references the above Military Specs with their corresponding dimensions.

Group I Shell	Group II Shell	Group III Dash	Group IV Dash
MC38999	MC81511	MS29513	M83528/5
MC26482		MS9021	
		M83528/2	



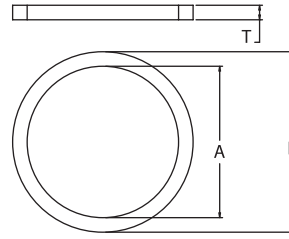
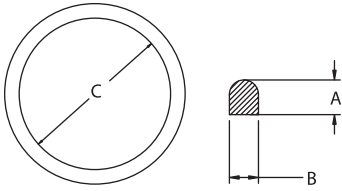
## "O"- Rings

Item No.	CS "B"	I.D. "C"	GRP I	GRP II	GRP III	GRP IV
27	.070	.739	—	8	2/018	—
28	.070	.801	9,10	—	2/019	—
29	.070	.860	—	—	—	5/019
30	.070	.864	9,10	—	2/020	—
31	.070	.926	—	—	2/021	—
32	.070	.989	11,12	—	2/022	—
33	.070	1.046	—	—	—	—
34	.070	1.110	—	—	—	—
35	.070	1.114	13,14	13,14	2/024	—
36	.070	1.176	—	—	025	—
37	.070	1.230	—	—	—	5/020
38	.070	1.239	15,16	15,16	2/026	—
39	.070	1.296	—	—	—	—
40	.070	1.364	17,18	17,18	2/028	—
41	.070	1.485	—	—	—	—
42	.070	1.609	—	—	—	—
43	.070	1.614	—	—	030	—
44	.070	1.674	—	—	—	—
45	.070	1.735	—	—	—	—
46	.070	1.864	—	—	032	—
47	.070	1.980	—	—	—	—
48	.070	3.009	—	—	—	—
49	.070	3.170	—	—	—	—
50	.070	3.489	—	—	043	—
51	.076	.656	—	—	—	—
52	.076	.779	—	—	—	—
53	.084	.852	—	—	—	—
54	.084	2.678	—	—	—	—
55	.087	1.250	—	—	—	—
56	.087	2.360	—	—	—	—

## "O"- Rings

Item No.	CS "B"	I.D. "C"	GRP I	GRP II	GRP III	GRP IV
57	.094	.750	—	—	—	—
58	.095	.897	—	—	—	—
59	.095	1.074	—	—	—	—
60	.100	1.005	—	—	—	—
61	.101	2.805	—	—	—	—
62	.101	3.153	—	—	—	—
63	.101	3.613	—	—	—	—
64	.103	1.040	—	—	—	—
65	.103	.612	—	—	2/114	—
66	.103	.676	—	—	2/115	—
67	.103	.799	—	—	2/117	—
68	.103	1.240	—	—	—	—
69	.103	1.362	—	—	2/126	—
70	.103	1.487	19,20	—	2/128	—
71	.103	1.612	21,22	—	130	5/022
72	.103	1.737	23,24	—	2/132	—
73	.103	1.790	—	—	—	5/023
74	.103	1.862	—	—	2/134	—
75	.103	2.362	—	—	2/142	—
76	.103	2.550	—	—	2/145	—
77	.103	3.987	—	—	2/155	—
78	.115	2.683	—	—	13/029	—
79	.115	2.876	—	—	—	—
80	.139	2.011	—	—	13/022	—
81	.147	2.265	—	—	—	—
82	.147	3.690	—	—	—	—
83	.188	.673	—	—	—	—
84	.210	3.475	—	—	—	—
85	.243	3.409	—	—	—	—
86	.394	3.464	—	—	—	—

# Conductive Particle Filled Elastomers Series 722 Extruded



## "D" -Rings

Item No.	"A"	"B"	I.D. "C"	"Radius"	M83528 Dash
01	.048	.078	.587	FULL	13/004
02	.048	.078	.587	FULL	—
03	.056	.082	.410	.041	13/002
04	.059	.093	2.705	FULL	—
05	.059	.095	3.193	FULL	—
06	.061	.025	.180	FULL	—
07	.061	.039	.151	FULL	—
08	.062	.069	.893	FULL	—
09	.062	.096	1.562	FULL	—
10	.065	.099	1.122	.049	13/008
11	.066	.059	.565	FULL	—
12	.067	.097	1.094	FULL	—
13	.069	.094	1.072	FULL	—
14	.070	.065	.809	FULL	—
15	.073	.034	.230	FULL	—
16	.076	.095	1.397	FULL	—
17	.076	.097	1.581	FULL	—
18	.076	.097	1.460	FULL	—
19	.076	.113	1.262	FULL	—
20	.077	.103	1.511	FULL	—
21	.077	.115	1.310	FULL	13/012
22	.078	.105	1.550	FULL	13/017
23	.083	.093	1.357	FULL	—
24	.085	.095	1.392	FULL	13/014
25	.088	.095	1.340	FULL	13/011
26	.101	.130	.592	FULL	—
27	.118	.174	1.385	FULL	—
28	.120	.152	.865	FULL	—
29	.123	.123	.853	FULL	—
30	.125	.138	2.859	FULL	—
31	.125	.155	.885	FULL	13/006
32	.130	.180	3.412	FULL	—
33	.188	.234	3.837	FULL	—
34	.188	.240	3.910	FULL	13/036

## Flat Washer

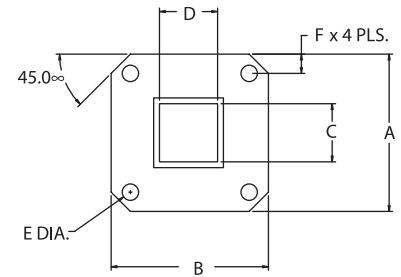
Item No.	"A"	"B"	"T"	MC5051/ MC26482	M83528 Dash
40	.250	.625	.031	—	12/001
41	.250	.625	.062	—	12/002
42	.319	.422	.075	8	—
43	.328	.391	.031	—	—
44	.375	.750	.031	—	12/003
45	.375	.750	.062	—	12/004
46	.406	.469	.031	10S/SL	—
47	.447	.550	.075	10	—
48	.500	.875	.031	—	—
49	.500	.656	.031	—	12/005
50	.500	.656	.062	—	12/006
51	.500	.656	.031	—	12/007
52	.500	.875	.062	12/008	—
53	.531	.594	.031	12/12D	—
54	.547	.703	.075	12	—
55	.641	.703	.031	14/14S	—
56	.671	.828	.075	14	—
57	.750	1.000	.031	—	12/009
58	.750	1.000	.062	—	12/010
59	.781	.844	.031	16/16S	—
60	.797	.953	.075	16	—
61	.891	.953	.031	18	—
62	.891	1.047	.075	—	—
63	.984	1.047	.031	20	—
64	1.000	1.438	.031	—	12/011
65	1.000	1.438	.062	—	12/012
66	1.039	1.172	.075	20	—
67	1.109	1.172	.031	22	—
68	1.141	1.297	.075	22	—
69	1.219	1.281	.031	24	—
70	1.266	1.422	.075	24	—
71	1.455	1.547	.045	28	—
72	1.672	1.766	.045	32	—
73	1.891	1.984	.045	36	—

# Conductive Particle Filled Elastomers Series 720 Die Cut



## Waveguide Connector Gaskets

Metal Textiles Silicone offers a complete selection of waveguide cover, choke, and contact flange gaskets for pressure and EMI/RFI sealing. All of our Silver Filled, "Non-Corrosive Particle" Filled elastomers can be produced into the configurations shown below. The thickness of the die cut gasket is .027+- .003 unless otherwise specified at time of order. The most commonly used waveguide flange requirements are separated into groups for clarification and ease of cross-reference to Metal Textiles Silicone's item number:



Group I	Group II	Group III Flange	Group IV Description	Group V	Group VI
M83528	EIA SIZE WR	JAN RG-/U	UG	CPR	CMR

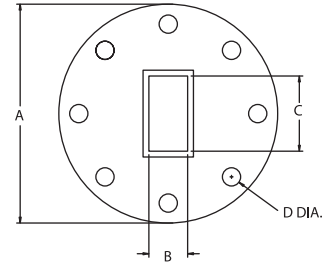
## Die-cut Square Rectangle Waveguide Connector Gaskets

Item No.	"A"	"B"	"C"	"D"	"E"	Group I	Group II	Group III	Group IV	Group V	Group VI
01	1.496	1.796	.760	.385	.155	13/007	75	—	—	—	—
02	.750	.750	.145	.285	.116	13/001	28	96	599	—	—
03	.875	.875	.175	.425	.116	13/003	42	53/121	595/97	—	—
04	1.313	1.313	.630	.320	.140	13/005	62	91/107	419	—	—
05	1.625	1.625	.905	.405	.169	13/009	90	52/67	39/135	—	—
06	1.875	1.875	1.130	.505	.180	13/015	112	51/68	51/138	—	—
07	3.750	5.440	1.710	3.410	.264	13/038	340	112/112	533/54	—	—
08	4.188	6.344	2.160	4.310	.266	13/040	430	104/105	435/37	—	—
09	5.438	8.688	3.260	6.510	.250	13/042	650	69/103	417/418	—	—
10	1.594	2.094	.405	.905	.169	13/010	90	52/67	1736/37	90F	—
11	1.937	2.687	.633	1.380	.206	13/020	137	50/106	1732/33	137F	—
12	2.438	3.188	.805	1.600	.257	13/024	159	—	1730/31	159F	—
13	3.500	2.500	4.880	.880	.266	13/027	187	49/95	1728/29	187F	—
14	2.750	3.875	1.155	2.300	.270	13/031	229	—	1726/27	229F	—
15	4.500	3.000	2.850	1.350	.266	13/034	284	48/75	1724/25	284F	—
16	3.750	5.438	1.710	3.410	.266	13/039	340	112/112	—	340F	—
17	6.344	4.188	4.310	2.160	.266	13/041	430	104/105	—	430F	—
18	1.531	2.281	.632	1.382	.150	13/021	137	51/106	—	—	137
19	1.750	2.500	.800	1.600	.160	13/025	159	—	—	—	159
20	1.784	2.781	.882	1.882	.156	13/028	187	49/95	—	—	187
21	2.000	3.156	1.155	2.300	.150	13/032	229	—	—	—	229
22	3.844	2.344	2.850	1.350	.172	13/035	284	48/75	—	—	284
23	1.750	2.500	.505	1.130	.171	13/016	—	—	—	—	—
24	6.344	4.188	4.300	2.150	.147	—	—	—	—	—	—
25	4.188	6.344	2.150	4.300	.328	—	—	—	—	—	—
26	3.750	5.438	1.715	.281	.264	—	—	—	—	—	—
27	2.000	3.156	1.155	3.000	.188	—	—	—	—	—	—
28	1.875	1.875	1.182	.527	.250	—	—	—	—	—	—
29	1.875	1.875	1.182	.527	.180	—	—	—	—	—	—

## Series 720 Die Cut

### Die- Cut Circular Waveguide Connector Gaskets

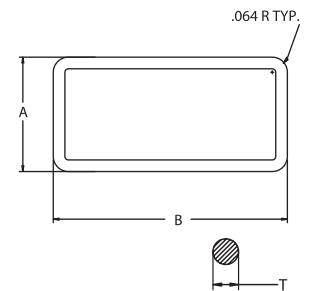
Item No.	"A"	"B"	"C"	"D"	Thick.	Group I	Group II	Group III	Group IV	Group V	Group VI
01	3.125	.632	1.382	.234	.027	13/019	137	50/106	344/441	—	—
02	3.625	.882	1.882	.234	.027	13/026	187	49/95	149A/407	—	—
03	5.312	1.350	2.850	.290	.027	13/033	284	48/75	53/584	—	—



## Series 721 Molded

### Molded Rectangular/"O" Cross Section Waveguide Connector Gasket

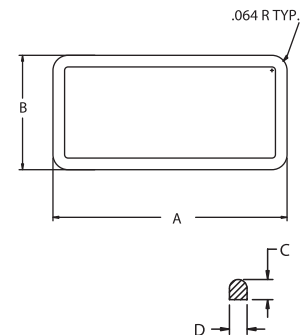
Item No.	"A"	"B"	"T"	Group I	Group II	Group III	Group IV	Group V
01	1.368	.868	.103	13/013	90	52/67	1360/61	90-G
02	1.616	.991	.103	13/018	112	51/68	1494	
03	1.866	1.116	.106	13/023	137	50/106	1356/57	137-G
04	2.449	1.449	.139	13/030	187	49/95	1352/53	187-G
05	3.451	1.951	.139	13/037	284	48/75	1348/49	284-G



## Series 721 Molded

### Molded Rectangular With "D" Cross Section Waveguide Connector Gaskets

Item No.	"A"	"B"	"C"	"D"	Group I
01	.988	.290	.083	.127	6/001
02	.988	.490	.083	.127	6/002
03	3.000	.830	.083	.127	6/003
04	5.280	1.340	.083	.127	6/004
05	2.980	1.480	.125	.127	6/005
06	5.970	1.500	.125	.187	—
07	3.000	.830	.135	.187	—
08	3.000	1.273	.135	.187	—
09	5.280	1.340	.135	.187	—



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