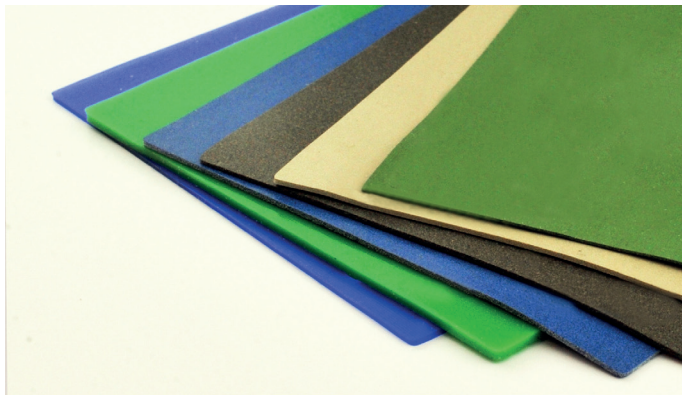




Conductive Elastomers

EMCEMI's own manufactured range of fully cured silicones and fluorosilicones with a wide range of metal particle fillers to suit your requirements. These gaskets offer excellent EMC and environmental properties making this a popular choice of gasket. We recommend a compression ratio of 15% to 20% and to avoid over compression we can fit 'limit' collars or stops to selected gaskets. We are able to offer fabricated and moulded gaskets as well as sheets which enables us to offer you the finished product to your specification or drawing as required.



Sheet Sizes

Sheet Size:	Part Numbers
50mm x 50mm	CE-8-X-X-XXXX-1
100mm x 100mm	CE-8-X-X-XXXX-2
150mm x 150mm	CE-8-X-X-XXXX-3
250mm x 250mm	CE-8-X-X-XXXX-4
300mm x 300mm	CE-8-X-X-XXXX-5
400mm x 400mm	CE-8-X-X-XXXX-6
420mm x 450mm	CE-8-X-X-XXXX-7

SELECT CONDUCTIVE ELASTOMERS

- CONNECTOR GASKETS
- ORIENTED WIRES IN SILICONE
- CONDUCTIVE ADHESIVES
- FABRIC OVER FOAM

How to order

Profile Code

8 - Sheet

Self Adhesive Backed

1 - SAB
 2 - Non SAB
(Please note SAB is not available on Fluorosilicone Products)

Material Code

- 1 - Silicone Carbon
- 2 - Silicone Nickel Graphite
- 3 - Fluorosilicone Nickel Graphite
- 4 - Silicone Nickel Graphite Flame Retardant
- 5 - Silicone Silver Aluminium
- 6 - Fluorosilicone Silver Aluminium
- 7 - Silicone Silver Copper
- 8 - Fluorosilicone Silver Copper
- 9 - Silicone Nickel
- 10 - Fluorosilicone Nickel
- 11 - Silver Plated Nickel
- 12 - Silver Glass

Example: CE-8-5-0020-7 = Sheet material in Silicone Silver Aluminium with a 2mm thickness and sheet size of 420mm x 450mm

Standard Sheet Thickness:

- 0.3mm = 0003
- 0.5mm = 0005
- 0.8mm = 0008
- 1.0mm = 0010
- 1.2mm = 0012
- 1.4mm = 0014
- 1.6mm = 0016
- 1.8mm = 0018
- 2.0mm = 0020
- 2.4mm = 0024
- 2.6mm = 0026
- 3.0mm = 0030
- 3.2mm = 0032
- 3.5mm = 0035
- 4.0mm = 0040
- 4.5mm = 0045
- 4.8mm = 0048
- 5.0mm = 0050
- 5.5mm = 0055
- 6.0mm = 0060
- 6.4mm = 0064



Part Number	CE-?-1	CE-?-2	CE-?-5	CE-?-7	CE-?-9	CE-?-3	CE-?-6	CE-?-8	CE-?-10
Conductive Filler	Carbon	Nickel Graphite	Silver Aluminum (65)	Silver Copper	Nickel	Fluoro Nickel Graphite (70)	Fluoro Silver Aluminum	Fluoro Silver Copper	Fluoro Nickel
Shielding Performance STD 285 /MIL-DTL 83528C (dB)									
10 MHz	30	115	111	115	114	116	114	116	110
100 MHz	65	121	120	122	115	122	122	125	116
400 MHz	60	119	120	119	121	119	118	118	124
1 GHz	N/A	122	121	123	114	122	121	124	117
2 GHz	40	122	119	122	122	122	123	121	112
6 GHz	N/A	115	115	116	117	114	109	117	111
10 GHz	30	114	112	115	114	107	114	115	113
18 GHz	N/A	106	105	104	105	105	103	104	103
Operating Temp Range (°C)	+160 -50	+160 -55	+160 -55	+125 -55	+160 -55	+160 -55	+160 -55	+125 -55	+160 -55
Colour	Black	Dark Grey	Blue	Dark Tan	Grey	Green	Light Green	Green	Dark Green
Shore Hardness (A +/-5) ASTM D2240	60	60	65	65	65	65	70	65	70
Volume Resistivity (ohms) ASTM D991	0.04	0.04	0.008	0.005	0.1	0.05	0.01	0.005	0.1
Specific Gravity (+/- 0.25)	2.0	2.0	2.0	3.5	4.5	2.2	2.0	4.0	4.8

*The results and procedures provides data applicable only to the test enclosure & cover panel design, but which is useful for making comparisons between gasket materials as stated in the MIL-DTL-83528C spec

