



### Conductive Elastomer Moulded 'O' Rings

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.

### Solid Round



**SELECT  CONDUCTIVE ELASTOMERS**

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

**How to order**

<b>Profile Code</b>	<b>Size</b>
12M - Moulded Core original	XXX - Developed length in mm
<b>Material Code</b>	
1 - Silicone Carbon	6 - Fluorosilicone Silver Aluminium
2 - Silicone Nickel Graphite	7 - Silicone Silver Copper
3 - Fluorosilicone Nickel Graphite	8 - Fluorosilicone Silver Copper
4 - Silicone Nickel Graphite Flame Retardant	9 - Silicone Nickel
5 - Silicone Silver Aluminium	10 - Fluorosilicone Nickel
	11 - Silver Plated Nickel
	12 - Silver Glass

Example: CE-12M-2-0018-100 = Moulded Nickel Graphite O ring 1.8mm C/S and 100mm D/L

Dim A (mm):	Part Number:		
1.0	CE-1-X-0010		
1.2	CE-1-X-0012	4.8	CE-1-X-0048
1.4	CE-1-X-0016	5.0	CE-1-X-0050
1.8	CE-1-X-0018	5.5	CE-1-X-0055
2.0	CE-1-X-0020	6.0	CE-1-X-0060
2.4	CE-1-X-0024	6.4	CE-1-X-0064
2.6	CE-1-X-0026	7.0	CE-1-X-0070
2.8	CE-1-X-0028	7.5	CE-1-X-0075
3.0	CE-1-X-0030	8.0	CE-1-X-0080
3.2	CE-1-X-0032	8.5	CE-1-X-0085
3.5	CE-1-X-0035	9.0	CE-1-X-0090
4.0	CE-1-X-0040	9.5	CE-1-X-0095
4.5	CE-1-X-0045	10.00	CE-1-X-0100

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 Aluminium (65)	Silver Copper	Nickel	Fluoro Nickel Graphite (70)	Fluoro Silver Aluminium	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	2.2	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

