



Conductive Elastomer Moulded 'O' Rings

Worried about the join, then EMCEMI have the answer. We have a wide tooling range from ID's of 5mm up 915mm in cross sections of either 1.8mm or 2.6mm, therefore saving on costly mould tools. If you require another cross section then please get in touch as we may have this size also. These gaskets offer excellent EMC and environmental properties making this a popular choice of gasket. We recommend a comparison ratio of 15% to 20% as standard with all our conductive silicones. We can cater for single proto types, all the way up to many production runs.



Solid Round

How to order

Profile Code

11M - Moulded Core original

Size

XXX - Developed length in mm

Material Code

- | | |
|--|-------------------------------------|
| 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

Inner Diameter	Cross Section	Inner Diameter	Cross Section	Inner Diameter	Cross Section	Inner Diameter	Cross Section
6.6	1.8	12.5	1.8	21.9	1.8	34.6	2.6
6.9	1.8	12.7	2.5	23.4	3.5	34.6	1.8
7.5	1.2	14.0	1.8	23.5	1.8	34.7	1.8
7.6	1.2	15.5	1.8	25.1	1.8	37.2	2.0
9.2	1.8	16.1	1.6	25.4	6.4	37.8	2.6
10.5	1.4	17.2	1.8	27.9	1.8	37.8	1.8
10.8	1.8	18.8	1.8	28.3	1.8	40.9	2.6
11.3	1.3	19.2	2.5	30.0	1.7	44.1	2.6
12.4	1.8	20.3	1.8	31.5	1.8		

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	Beige	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

