



Cost-effective solution for EMI Shielding & Environmental sealing

### DESCRIPTION

SSDP Composite Conductive Elastomers consist of a highly conductive elastomer along with Silicone elastomer. While being cost effective, it also provides high EMI shielding effectiveness and environmental sealing especially in corrosive environments on par with Conductive Elastomers.

### APPLICATION

It is a cost-effective solution for excellent EMI Shielding and Environmental sealing on par with Conductive Elastomers. These can be used in Marine environment and in the place of Conductive Elastomers when the cross sections are large. These are ideal for use in corrosive environments.

#### TECHNICAL SPECIFICATION - CONDUCTIVE ELASTOMER: (999)

#### (888)

Parameter	Material			Material	
	999	999 'A'	999 'B'	888	888 'A'
MIL - DTL - 83528 equivalent	Type 'E'	Type 'J'	-	Type 'A'	Type 'K'
Elastomer	Silicone			Silicone	
Conductive Filler	Ag			Ag-Cu alloy	
Volume Resistivity (ohm-cm, max.)	0.002	0.01	0.005	0.004	0.005
Durometer (Shore A ± 7)	65	45	65	65	85
Specific Gravity [±13%]	3.5	1.7	3.5	3.5	3.5
Tensile Strength (psi, min.)	300	150	200	200	400
Elongation (percent min./max.)	200/500	50/250	200(min.)	100/300	100/300
Tear Strength (lb/in, min.)	50	20	50	40	40
Temperature Range (°C)	-55 to +160			-55 to +125	-45 to +125

#### EMI SHIELDING PERFORMANCE:

Frequency	Shielding Effectiveness (dB)				
	999	999 'A'	999 'B'	888	888 'A'
200KHz (H-Field)	70	60		70	
100MHz (E-Field)	120	100	110	120	
10GHz (Plane Wave)	120	80	110	120	