

## Section C ALUMINIUM & MONEL MESH IN SILICONE

Codes - 822

### DESCRIPTION

SURSHIELD Mesh gasketing is manufactured with two different meshes embedded in silicone rubber. 56-WWS-600 is made from woven aluminium mesh and provides a conductive gasket with about 25 contact points per cm<sup>2</sup>. 57-EMS-300 has approximately 33 contact points per cm<sup>2</sup> and is a conductive gasketing material with expanded Monel sheet embedded in silicone. In both cases the mesh apertures are filled with a sealing compound to provide additional environmental sealing properties. 56-WWS-600 and 57-EMS-300 utilise a silicone elastomer formulation.

### APPLICATION

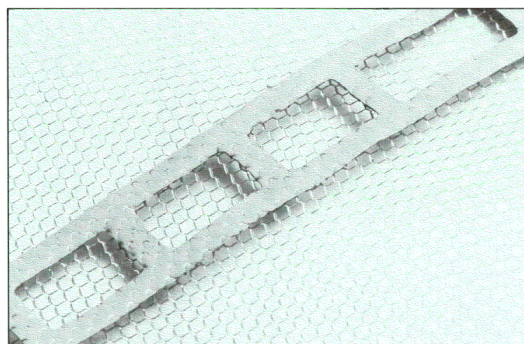
Both types of gasketing material are particularly recommended for RFI/EMI shielding of electronic enclosures. 56-WWS-600 is designed for military, industrial and commercial shielding applications, where an excellent weather seal is required. 57-EMS-300 provides a tough conductive gasket material, combined with some sealing performance. For both types the minimum recommended closure pressure is 345 KPa (50 psi).

### CUSTOMISED PRODUCTS

Gaskets can readily be die cut or cut with shears from sheet. Securing or locating holes should be cut to leave a minimum of 2.5 mm between hole and material edge. When this is not possible, slots should be used in preference to holes. For effective use the mating surface must be cleaned to bare metal — protective conductive coatings may then be applied (see Section A). 57-EMS-300 can be provided with pressure sensitive adhesive backing for ease in location and assembly. Both types can be slit to width to suit customer's requirements.

### TYPICAL PROPERTIES

| Gasket Material             | Attenuation: |       |        |      | Temperature Range<br>(°C) | Part Number |
|-----------------------------|--------------|-------|--------|------|---------------------------|-------------|
|                             | 100kHz       | 10MHz | 100MHz | 1GHz |                           |             |
| Woven Aluminium in Silicone | 95           | 85    | 82     | 78   | -62 to +260               | 56-WWS-600  |
| Expanded Monel in Silicone  | 89           | 84    | 79     | 75   | -62 to +260               | 57-EMS-300  |



### STANDARD DIMENSIONS

56-WWS-600 is made in 0.5mm thickness with standard width of 300mm.  
57-EMS-300 is made in 0.5 and 0.75mm thicknesses with standard width of 300mm.  
Tolerance on thickness is ±0.1mm.