EMI Shielding Cable Glands

Product Overview

EMI cable glands are manufactured in brass and consist of 4 parts. The body, cap, locknut and the mesh olive. The cable entry gland uses a wire mesh olive, which consists of knitted wire mesh over a silicone core which when compressed by the cap being tightened to the body provides circumferential pressure to both the cable and gland body, giving excellent electrical conductivity between the two.

Application

The Cable Entry Gland provides an excellent EMP/RFI/EMI shield for screened cable which pass through enclosure walls.

Availability

Manufactured in a range of sizes to accommodate cables with a diameter over the screen from 2mm up to 16mm.

Design Considerations

A round or threaded hole is required to mount the gland. (The gland can also be soldered into the enclosure wall).

Using a heat shrink boot (not supplied) can also provide a degree of environmental sealing.

Production Capabilities

Kemtron manufacture these glands as a standard part, however if you require something slightly different or with a plated finish we are able to accommodate requests subject to minimum quantities.

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Typical Shielding Performance

H Field			
MHz	0.01	0.10	1
Attenuation	72 dB	84 dB	90 dB

E Field				
MHz	0.10	1	10	100
Attenuation	>130 dB	>128 dB	>120 dB	>120 dB

Materials

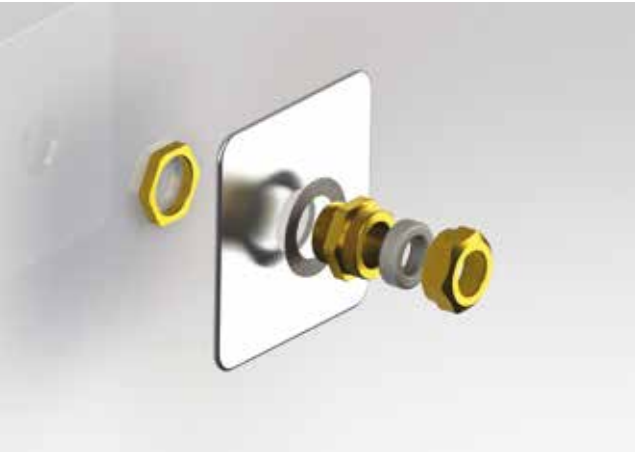
Brass Body
BS2870

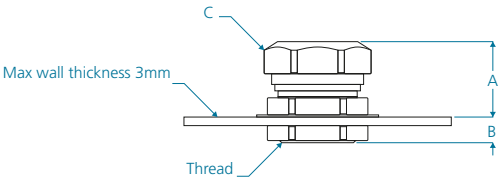
EMC Gasket
Kemtron 525 material
(Silicone ZZ-R-765 Class2 GR50 -60°C TO 200°C
Woven Aluminium: AMS 4182)

Knitted Wire Mesh
Tin Plated Copper Clad Steel (TCS):
Wire diameter 0.11mm
UK Specification BS2316*, BS4087*
USA Specification ASTM B277*, ASTM B452*,
ASTM B520, ASTM B33*, AISI 1010

* There is no complete specification for this material. Processes have been derived from parts of the above where applicable.

Profile





Silicone Ring
ZZ-R-765 2b 40 -60°C TO 200°C

Part No.	Max Ø over screen	Min Ø over screen	Dim A	Dim B	Dim C	Hole Ø	Thread
1500	4.7mm	1.5mm	15mm	7mm	15mm	10.5mm	M10
1501	7.7mm	4.0mm	17mm	7mm	18mm	12.5mm	M12
1502	9.7mm	6.0mm	20mm	8mm	22mm	16.5mm	M16
1503	11.7mm	7.5mm	20mm	8mm	24mm	20.5mm	M20
1504	16.0mm	12.0mm	25mm	9mm	30mm	26.0mm	M25

Notice

Information supplied in these data sheets is based on independent and laboratory tests which Kemtron believes to be reliable. Kemtron has no control over the design of customer's product which incorporates Kemtron's products, therefore it is the responsibility of the user to determine the suitability for his particular application and we recommend that the user make his own test to determine suitability.

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