

## Peppers Cable Glands Limited


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### Accessories:- Insulating Adaptors - Type IA



IA series Insulated Adaptors provide a method of insulating the cable gland or connection device from the equipment into which it has been installed. IA series Insulated Adaptors maintain Flameproof Exd method of explosion protection and IP66, 68 for IEC type applications. Class I, Division 2 and NEMA 3, 6P for NEC/CEC type applications.

<b>CERTIFICATION</b>	<p><b>CENELEC</b>                  SIRA00ATEX1098 (Metric Female)                  SIRA99ATEX1117U (Non-Metric Female)                  II 2DG E Ex d IIC</p> <p><b>CSA / A Ex</b>                  Class I, Zone 1, Ex d IIC                  Class I, Division 2 ABCD                  Class II EFG, Class III</p> <p><b>GOST R-Exde IIC</b>                  POCC GB MTT14.B00030</p>	
<b>APPLICATIONS</b>	<p>To avoid relying on the contact between cable termination and equipment enclosure for grounding the cable armour, an insulated adaptor can be fitted to both ends of the cable with a grounding device (i.e. earth tag/lug) fitted between the adaptor and the termination. The armour current can then be taken from the grounding device to ground in a controlled, positive manner that can be inspected easily.</p> <p><b>Single Point Grounding:-</b></p> <ul style="list-style-type: none"> <li>- In many applications it is sufficient to ground the cable armour at one end. For single point grounding the insulated adaptors would again be used at both ends of the cable but with the earth tag fitted only to the end where grounding is required.</li> </ul> <p><b>Single Point Grounding can:-</b></p> <ul style="list-style-type: none"> <li>- reduce the circulating currents that can cause heating of high capacity cables.</li> <li>- reduce the risk of damage to electronic equipment within the enclosure in the event of a short circuit to ground through the enclosure.</li> <li>- reduce the problems of electrical noise on the armour affecting the clean earth required for some sensitive instruments.</li> </ul> <p><b>Electrical properties of insulating material</b></p> <ul style="list-style-type: none"> <li>- Dielectric strength: 90KV/mm</li> <li>- Volume resistivity: 8.6 x 10x14 O/cm</li> <li>- Minimum thickness of insulator: 5mm +/- 1mm</li> <li>- 2KV 'Wet Withstand' Tested</li> </ul>	
<b>INGRESS PROTECTION</b>	IP54, CSA Enclosure Type (NEMA) 3 IP66 68 can be maintained with the use of either IP washers or a non-hardening thread sealant	
<b>IMPACT RESISTANCE</b>	7Nm	
<b>OPERATING TEMPERATURES</b>	-20°C to +60°C	
<b>MATERIALS</b>	Brass CZ121 (IA) 316 Stainless Steel (IAS) Aluminium Alloy (IAA)	
<b>THREADS</b>	ISO Metric; NPT; NPS; ISO Pipe Thread (BSP Taper, BSP Parallel); PG	
<b>PLATING</b>	Zinc (ZP); Nickel (NP); Tin (TP); Electroless Nickel (EN)	

EXAMPLE PART NUMBER

Sample: IA/NP/M20/050NPT

IA - Body material (Brass)  
 NP - Nickel plating  
 M20 - Male thread size  
 050NPT - Female thread size (1/2" NPT)

DIMENSIONAL INFORMATION FOR METRIC TO METRIC VERSIONS						
Metric	Hex A/F	Hex A/C	Total Length	Male Length	Female Depth	Bore
M20	30.5	35.5	54.0	16.0	17.0	13.5
M25	37.6	43.2	54.0	16.0	17.0	19.0
M32	47.2	54.3	54.0	16.0	17.0	25.0
M40	55.9	64.1	54.0	16.0	17.0	30.0
M50	70.1	80.8	54.0	16.0	17.0	40.5
M63	80.0	92.0	54.0	16.0	17.0	53.0
M75	95.3	109.5	54.0	16.0	17.0	65.0
M80 x 2.0	100.0	114.0	63.0	20.0	22.0	70.0
M85 x 2.0	106.4	114.0	63.0	20.0	22.0	75.0
M90 x 2.0	106.4	114.0	63.0	20.0	22.0	80.0

**All Dimensions are in Millimetres**

**NOTES:**

- Full installation instructions are supplied with insulated adaptors, the instructions must be read prior to installation and adhered to in full
- Unless otherwise stated ISO Metric entry threads have a 1.5mm pitch
- For Flameproof Exd applications the female thread into which the adaptor is to be fitted must comply with clause 5.3 of EN 50018:2000 (clause 5.3 IEC 79-1)