Insulated (Exd) adaptors - AID Series

Type AID

Technical specification

Code of protection categories
ATEX: Ex d IIC
GOST: Ex d IICU
Compliance standards
ATEX: EN 50014, EN 50018, EN 50019, EN 5081-1-1
Certificate details
ATEX: Sira 00ATEX1073U
GOST: TC RUC-G B.ГБ06.B.00105
Temperature
Temperature range -20°C to +130°C
Part number:
Please refer to page 10 for part numbering system

Features

- International Ex approvals
- IP54, CSA Enclosure Type (NEMA) 3
- Available in brass, stainless steel and aluminium
- Glass filled nylon insulating material

Benefits

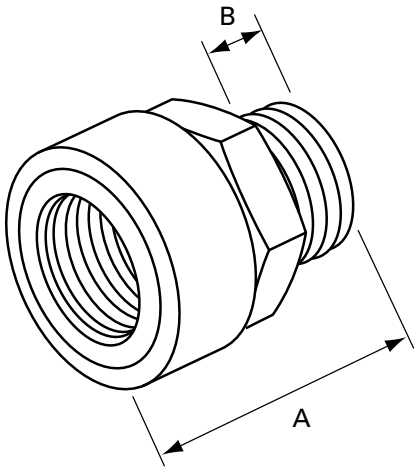
- Provides method of insulating connection device from the equipment
- Allows armour current to be controlled in a positive manner
- Inspection of grounding made easy

Materials

- Brass CZ121
- 316 stainless steel
- Aluminium

Threadforms

- Metric
- NPT
- NPSM
- PG
- ISO pipe (BSP)
- ET



Dimensions of metric versions

Size	Total length (A)	Male length (B)
M20	60.00 (min)	15.00 (min)
M25	60.00 (min)	15.00 (min)
M32	60.00 (min)	15.00 (min)
M40	60.00 (min)	15.00 (min)
M50	60.00 (min)	15.00 (min)
M63	60.00 (min)	15.00 (min)
M75	60.00 (min)	15.00 (min)

Application

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.

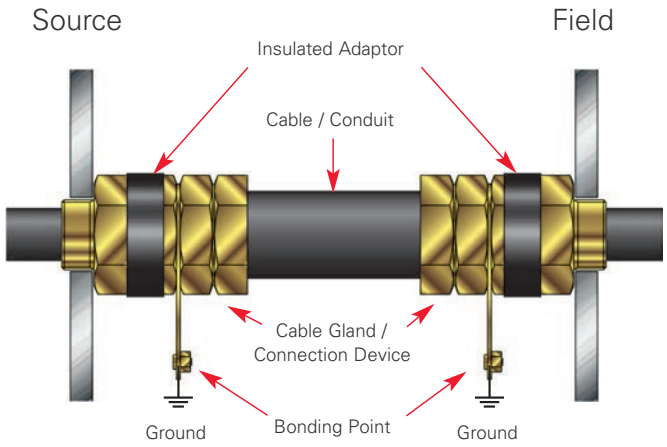
Single point grounding

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.

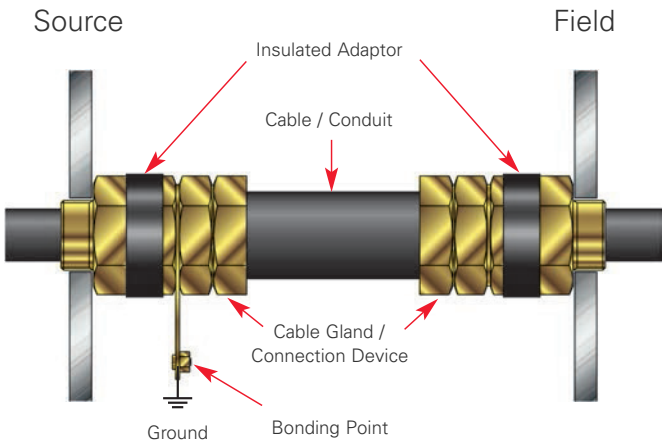
Single point grounding can:

- Reduce the circulating currents that can cause heating of high capacity cables.
- Reduce the risk of damage to electronic equipment within the enclosure in the event of a short circuit to ground through the enclosure.
- Reduce the problems of electrical noise on the armour affecting the clean earth required for some sensitive instruments.

Standard application



Single point grounding



Note: Graphic representation only - actual appearance may differ.