

INSULATED ADAPTOR

Class I / II / III Div. 1,2

Class I / II / III Zone 1 & Zone 21



Insulated Adaptor

Features and Benefits

- Provides electrical insulation between a cable gland or conduit fitting and electrical apparatus.
- Helps to prevent the formation of eddy currents.

Technical Data

Product:	Insulated Adaptor
Material:	Brass (Marine Grade Electroless Nickel Plated) or Stainless Steel
Gasket:	HDPE or Nylon 66
Note:	The installer should check that the materials are suitable for the installation environment
Temperature ranges:	The insulated adaptors should only be used in the temperature range of -20°C to +95°C

Standards and Certifications

Type	Certificate	Protection Level
NEC / CEC:	E115595	Class I/II/III Div. 1, 2; Class I, Zone 1; Zone 21 AEx / Ex db IIC Gb, AEx/ Ex eb IIC Gb, AEx/ ' Ex ta IIIC Da

In accordance with NEC/CEC the products can additionally be used in Zones 2 and 22



Other certification types are available for this product e.g. IECEx.

Specific Conditions of Use - X

1. Products have a minimum IP rating of IP65 with no sealing gasket. Metric threads can have an IP rating of IP66/67/68 if fitted with the supplied sealing gasket. NPT threads can have an IP rating of IP66/67/68 if fitted using a suitable thread sealant.
2. Suitable for use in indoor and outdoor locations.
3. NEC / CEC approved insulated adaptors are available in thread sizes from ½" NPT /M20 up to 1" NPT /M25 only. (IEC Ex approved insulated adaptors are available with thread sizes up to 4" NPT /M100).

Product Code Structure

The product codes are made up as follows:-

1st Digit:	2nd Digit:	3rd to 5th Digit	6th Digit	7th to 9th Digit
A = Adaptor	N = NPT thread (male) M = Metric thread (male)	Thread size (see table below)	N = NPT thread (male) M = Metric thread (male)	Thread size (see table below) Followed by "-INSA-MNA"

NPT Code	Thread Size	Metric Code	Thread Size
012	½"	020	M20 x 1.5
034	¾"	025	M25 x 1.5
001	1"		

For example:-

AN001N001-INSA-MNA is an Insulated Adaptor with a 1" NPT male thread and a 1" NPT female thread.

Fitting Instructions

Insulated adaptors must be installed with care to prevent damage to the insulator. When fitting, tighten to the torque levels shown in the table below using a spanner which engages the entry item only. When fitting a cable gland to the insulated adaptor, the bush component must be held with a spanner to resist the torque applied to the cable gland during installation.

Thread Size	Torque Nm / lb ft
½" NPT	'wrench tight'
¾" NPT	'wrench tight'
1" NPT	'wrench tight'
M20	21 / 16
M25	30 / 22

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