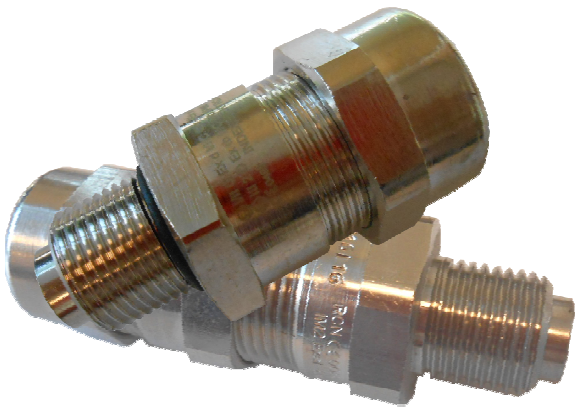
Product manual cable glands type IR and IB



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IR/IB 061217

Purpose of these instructions

- Working in hazardous areas, the safety of personnel and plant depends on complying with all relevant safety regulations.
- Assembly and maintenance staff working on installations therefore have a particular responsibility. They require precise knowledge of the applicable standards and regulations.
- These instructions give a brief summary of the most important safety measures. It supplements the corresponding regulations which the staff must study.

SAFETY INSTRUCTIONS

- Use the explosion-proof cable gland only for its intended purpose.
- Explosion-proof cable glands are not suitable for Zone 0 hazardous areas!
- Incorrect or impermissible use or non-compliance with these instructions invalidates our warranty provision.
- No changes to the device impairing its explosion protection are permitted.
- Use the explosion-proof cable gland only if they are clean and undamaged.
- Any damage can invalidate the Ex-protection.
- Observe the following during installation and operation:
  - National safety regulations;
  - National accident prevention regulations;
  - National installation regulations (e.g. IEC 60079-14);
  - Generally recognized technical regulations;
  - Safety guidelines in these operating instructions;

Conformity to standards

The explosion-proof cable gland is designed and manufactured according to standard of ISO 9001.
The explosion-proof cable glands is conformity to the directive 94/9/EC, ATEX and the following standards:

EN 60079-0 : 2009	EN60079-1 : 2007
EN 60079-7 : 2007	EN60079-31 : 2009

Applicable scope

The series product can be used in zone 1, 2, 21 and zone 22.

Model and implication

Explosion-proof Cable glands

I R/B□□ □ □ □ □

- B = Brass / N = nickel plated / S is Stainless Steel 316
- M = Metrical or N = NPT Thread
- Dimentiones of seals - K = all sizes
- Size of gland
  - 0 = M16 / 3/8"NPT - 01 / 1 = M20 / 1/2"NPT
  - 12 / 2 = M25 / 3/4"NPT - 3 = M32 / 1"NPT
  - 4 = M40 / 1.1/4"NPT - 5 = M50 / 1.1/2"NPT
  - 6 = M63 / 2"NPT - 7 = M75 / 2.1/2"NPT
  - 8 = M90 / 3"NPT
- Type of compression - N=single compression / AD=double compression
- Type of gland - R= standard gland / B=Barrier gland
- Productcode of Index Elektro BV

Technical data

Ex mark:
Ⓔx I/II 2G / Ex d I/IIC Gb
Ⓔx I/II 2G / Ex e I/IIC Gb
Ⓔx III 2 D / Ex tb IIIC Db IP66

Test certificate ISSeP 10 ATEX 034X

Special conditions for safe use (X)
- Group I only: Cable entries may not be exposed to specific chemical agents (oils, greases and hydraulic liquids for mining applications)

-Temperatures:
* EPDM sealing rings: - 40°C to +100°C
* Silicone sealing rings: - 70°C to +220°C

Accessories / Spare parts

Use only original spare parts as well as original accessories produceed by INDEX ELEKTRO BV.

Maintenance / repairs

- Observe the relevant national regulations for your country.
- Only parts from our company that can be used to replace or maintenance and the operation should be carried out by professional staf.
- The following points must be checked during maintenance:
  * Compliance with permitted temperatures
  * Check if the product has been fixed reliably.
  * Check if the gland is damaged.

Disposal / recycling

The respective valid national regulations for waste disposal shall be observed when disposing cable glands.
We are pleased to answer any special questions you may have, Please contact INDEX ELEKTRO BV.

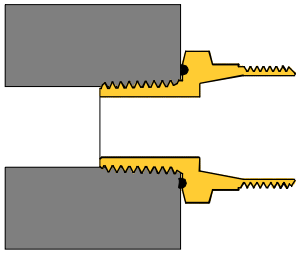
Operation/installation

- Transport and storage in original packaging only. National safety and installations regulations and the generally accepted rules of engineering practice must be observed when mounting and using this equipment.
- Explosion-proof cable gland is suitable for use in hazardous areas, zones 1, 2, 21 and 22.

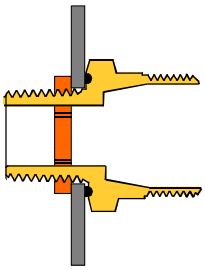
- The choice, application and mounting of the cable gland must be at all times in accordance with the EN IEC 60079 part 14

- For cable entry in Ex d enclosures:
  * Single compression cable glands must be used for unarmoured cable.
  * Double compression cable gland must be used for armoured cable.
- Use barrier glands ore use cable according IEC EN 60079-14

Mounting cable glands



1. Screw the gland for Ex d or Ex e applications into the box or device
   For Ex d application at least 5 windings



2. Glands for Ex e applications may be mounted with a locknut

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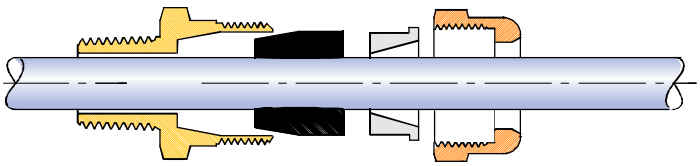
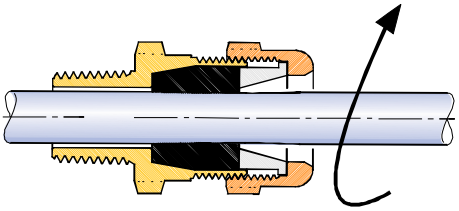
Type IRN(x) for non armoured cable

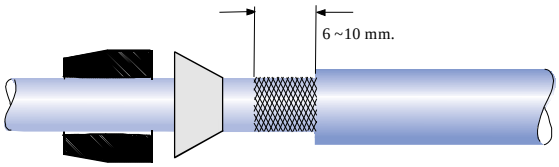


1. Feed the cable through the gland

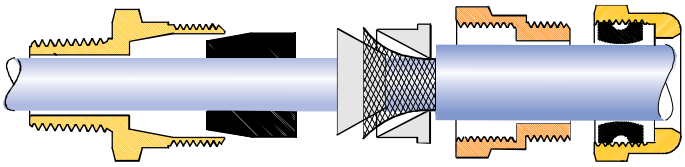


2. Turn the head untill the cable is locked

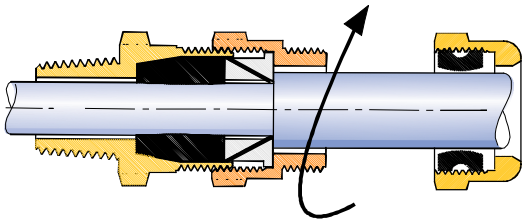
Type IRAD(x) dubble compression for armoured cable



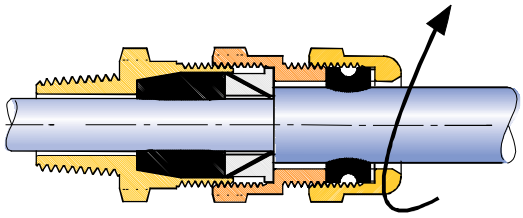
1. Remove the external sheath of the cable and cut the amour to a length of 6~10 mm



2. Feed the cable through the gland and insert sheath between the conical rings

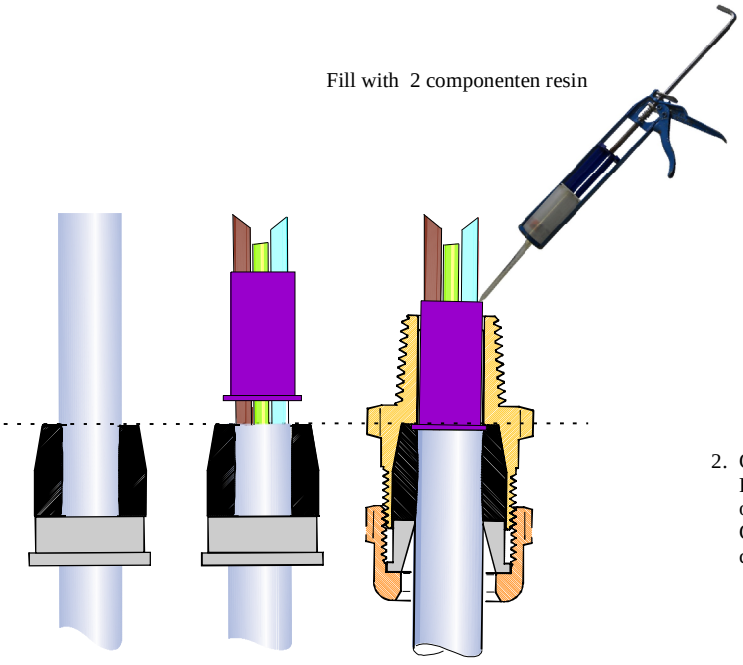


3. Turn the middel part untill the cable under the sheat is locked



3. Turn the head untill the cable is locked

For all types IB - barrier glands



1. Mount the cable as described above

2. Cut the cable sheat just above the rubber and remove this
From this point follow mounthing instructions of the IRN or IRAD type cable glands.
Compound resin can be filled after wires have been connected.