

EARTHING LOCKNUTS FOR GLANDS AND CONDUITS

The Earthing Nut represents a major leap forward in terminating and earthing metal cable glands associated with cables such as SWA, Mineral Insulated and braided flexible. In most cases, metallic cable glands form a vital part of the protective connection to a cable's metal sheath, armouring or braid. Where this connection is designed to be current carrying, it is seldom put to full test until a fault occurs. It is then required to withstand potentially heavy fault currents without failure until the protective device clears the fault.

The Earthing Nut is purpose made from brass. During fitting it is securely locked against the gland thread with a grub screw, providing a terminal to directly attach a suitable protective conductor. The Earthing Nut removes the box wall from the connection, enabling metal glands to be fitted to any thin walled enclosure. This now opens up more possibilities for using plastic enclosures where previously only metal ones were found suitable due to the metal glands being fitted.

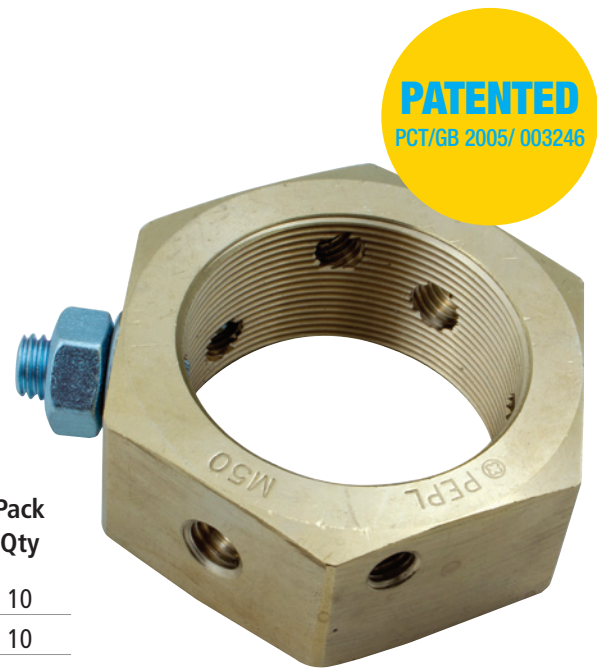
Earthing Nuts can be used with any metal cable gland in the range 20mm to 75mm and are available in standard sizes.

FEATURES

- Hexagon brass locknut with threaded holes for locking grub screws
- Quick fit earth for glands with SWA & EMC
- Safe and easy low resistance connection every time
- Secure and direct connection even when mechanically pulled
- Simple to use with one spanner fit
- Tested to BS EN 50262

SPECIFICATIONS

Part No.	Thread Size (mm)	Connection Hole Size	Hexagon Size (mm)	Nut Thickness (mm)	Pack Qty
EN20	20	M4	27	8	10
EN25	25	M6	35	12	10
EN32	32	M8	45	18	4
EN40	40	M10	56	22	2
EN50	50	M10	66	28	2
EN63	63	M12	80	38	1
EN75	75	M12	93	38	1



Earthing Nut 50mm
Part No: **EN50**

APPLICATIONS



Connection to steel conduit



Gland connection



Gland to plastic box connection



Gland connection

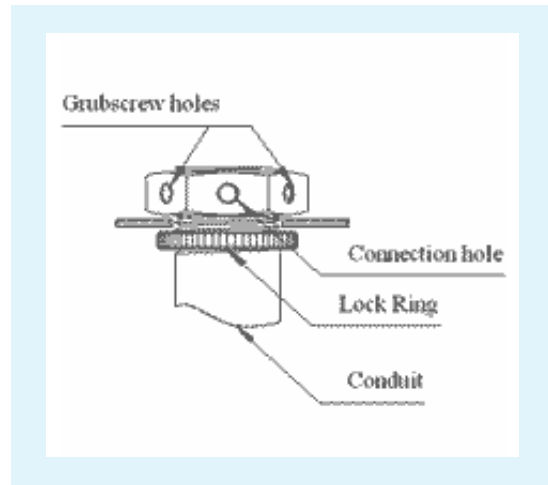
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FITTING INSTRUCTIONS FOR EARTHING NUTS

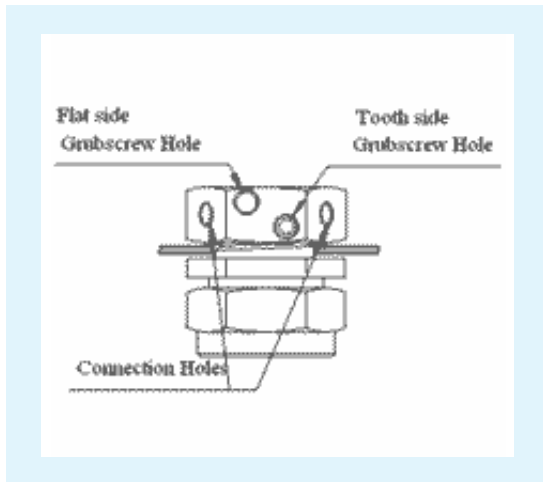
Earthing Nuts EN20 & 25 to Steel Conduit

1. Thread conduit long enough to accommodate locking, enclosure wall and nut plus 1/2 a thread or so.
2. Screw lock nut on to conduit to end of thread.
3. Pass conduit thread through hole in enclosure.
4. Screw nut onto thread until conduit end is level with or protruding slightly from face of nut, turn so that one hole faces the front.
5. Tighten locking from outside until connection is firm.
6. Fit and tighten grub screw to secure nut to thread. Avoid over distorting conduit wall by excessive tightening.
7. Fit suitable ring terminal to protective conductor and connect tightly to nut with screw and washer. Check connection is tight.
8. When using metal gland plates, ensure plate is adequately bonded. Check all connections are sound.



Earthing Nuts except EN20 & 25 to glands

1. Hold earth nut with teeth facing enclosure wall and offset hole nearest teeth accessible for fitting grub screw. Screw in gland body hand tight.
2. Fully tighten gland to nut from outside, teeth prevent nut from turning.
3. Ensure grub screw hole is at least half covered by gland thread
4. Terminate cable to gland in usual way. Note:- When terminating gland to cable first, fit nut with smooth side to enclosure wall and tighten from inside.
5. Fit and tighten short grub screw in offset hole to secure nut to gland. Avoid over distorting gland body by excessive tightening. Screw long stud into central connecting hole until tight.
6. Fit suitable ring terminal to protective conductor. Fit to stud and connect tightly with nut and washer. Check connection is tight.
7. When using metal gland plates, ensure plate is adequately bonded. Check all connections are sound.



Earthing Nuts EN20 & 25 to glands

1. Hold earth nut with teeth facing enclosure wall with one hole to front for earth connection. Screw in gland body hand tight.
2. Fully tighten gland to nut from outside, teeth prevent nut from turning.
3. Ensure grub screw hole is at least half covered by gland thread
4. Terminate cable to gland in usual way. Note:- When terminating gland to cable first, fit nut with smooth side to enclosure wall and tighten from inside.
5. Fit and tighten grub screw to secure nut to gland. Avoid over distorting gland body by excessive tightening.
6. Fit suitable ring terminal to protective conductor and connect tightly to nut with screw and washer. Check connection is tight.
7. When using metal gland plates, ensure plate is adequately bonded. Check all connections are sound.

