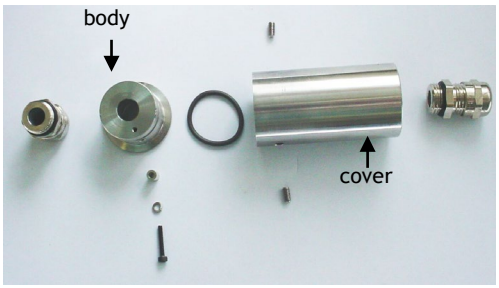
Strain Bridge Wiring & Output Wiring

This procedure assumes that the recommended two-pair individually shielded cable is used.

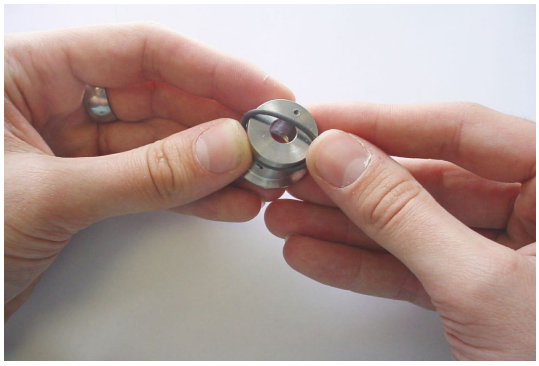
Package Contents

- EMC "O" ring
- enclosure body
- enclosure Cover
- 2 x EMC PG7 cable glands
- 2 x grub screws
- 1 x M2 spring washer
- 1 x M2 cylindrical spacer
- M2 x 12mm cap screw

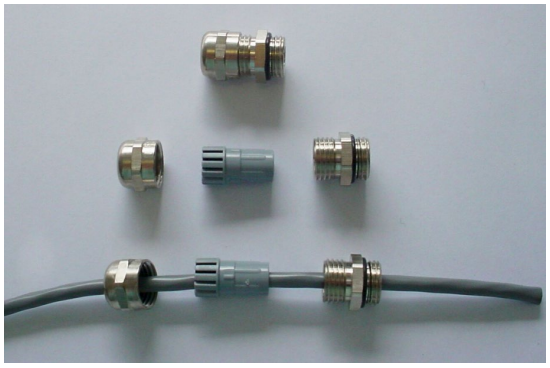


Assembly Method

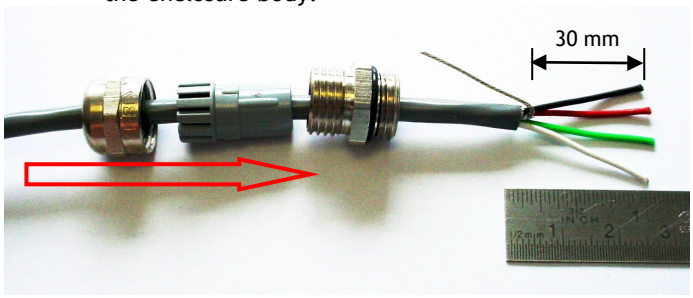
1. Carefully fit the "O" ring to the body



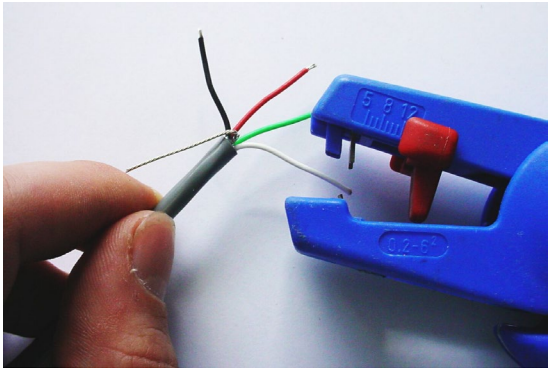
2. Remove the cable gland nuts and plastic inserts from the bodies of the EMC glands and slide them onto the ends of the cables.



3. Lay the cable drain wire back along the cable outer insulation and pass the prepared end of the cable through the gland shell on the enclosure body.



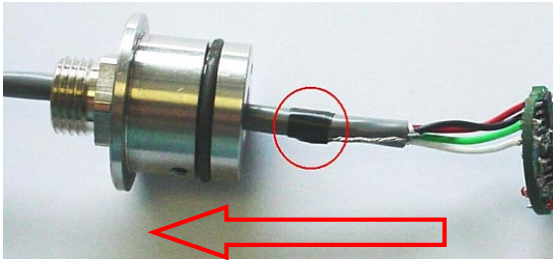
4. Strip 2mm of insulation from the individual wires before tinning the ends and soldering to the PCB.



5. Feed the cable back through the gland shell taking care to ensure that the drain wire passes through the gland.

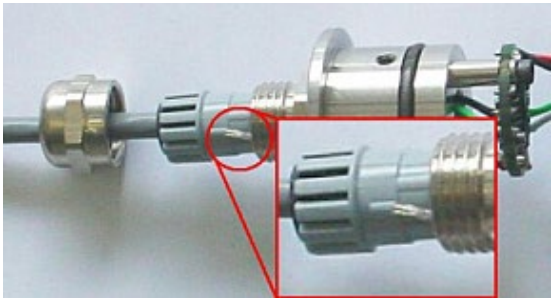
   Use the 12mm cap-screw, spring washer and 7mm long cylindrical spacer to mount the PCB to the enclosure body.

   Note - a small piece of tape may help guide the drain wire through the gland.



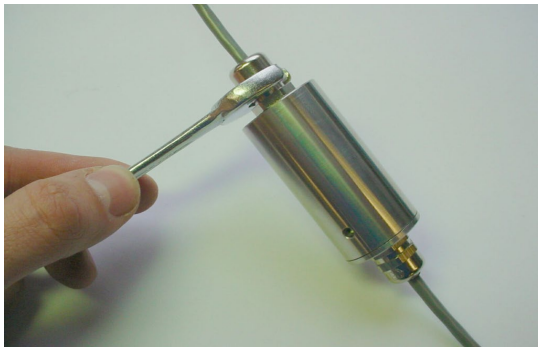
6. Slide the EMC gland plastic insert into place ensuring that the drain wire passes between the plastic insert and the gland shell and ends at the step in the insert; note that there are slots in the shell to accommodate the raised areas on the outside of the plastic insert.

   Any excess drain wire may need to be trimmed.



7. Push the plastic insert fully home and check to ensure that no strands from the drain wire are visible; slide the gland nut into place and tighten so that the cable is firmly gripped by the lining of the plastic insert.

   A torque of 2.5 Nm is recommended for the tightening of glands.



8. Taking care not to damage the EMC 'O' ring, and making sure that the cable drain wire passes back through the gland, carefully assemble the enclosure body with the PCB mounted on it, to the enclosure cover and fit the two retaining grub-screws.



NOTE - For use in high vibration environments, internal cavities should be filled with suitable potting materials such as Dow Corning Sylgard 527 or RayTech Magic Gel.

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