

DATA BUOY PASS-THROUGH PLATE

INSTRUCTIONS

What's Included

Pass-Through Plate

- (6) UW bulkheads with blank retainers
- (1) Vent Port
- (1) 6-pin power bulkhead with molex connector and power/ground wires

Pass-Through Plate Kit

- (6) PG-9 flex fittings with UW pass-through retainers
- (1) Packet of Molykote 111 compound O-ring grease
- (5) Spare UW retainers and port O-rings
- (2) Spare power port O-rings

Pass-through Port Installation

- 1 Remove one of the UW port bulkheads and blank retainers from the pass-through plate.
 - a. Separate the blank retainer from the threaded UW port bulkhead.
 - b. The blank retainer will not be utilized further.

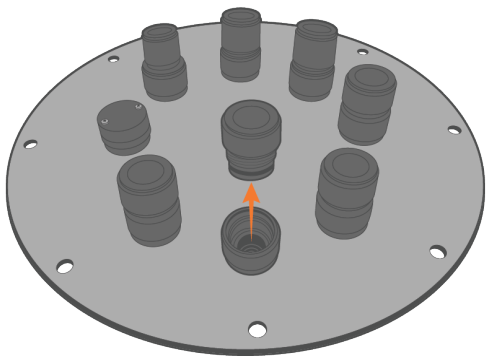


Figure 1: Remove a UW port bulkhead.

- 2 Separate the PG-9 flex fitting from one of the included pass-through retainers.

- 3 Slide the components onto the user-supplied cable in the following order:

1. UW threaded bulkhead
2. PG-9 flex fitting
3. Pass-through retainer

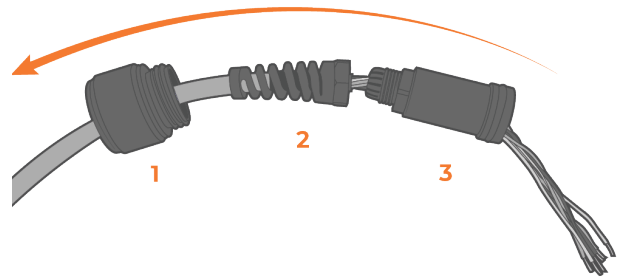


Figure 2: Install the included pass-through plate components.

- 4 Pull the necessary length of wire through the PG-9 flex fitting and pass-through retainer.
 - a. Ensure the cable wires are completely passed the threaded area of the pass-through retainer.
- 5 Hand tighten the PG-9 flex fitting onto the pass-through retainer. Use a crescent wrench to further tighten until the cable is immobile.
 - a. Ensure no part of the cable wires are exposed above the connection between the PG-9 flex fitting and pass-through retainer.

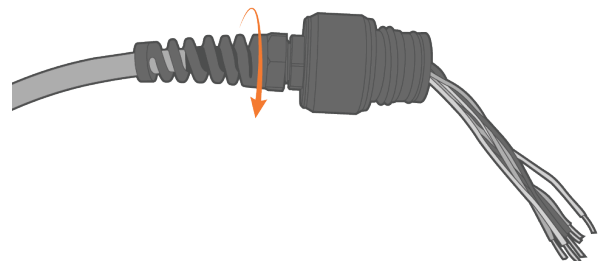


Figure 3: Tighten the PG-9 flex fitting.

- 6 Route the wires through the open bulkhead port on the pass-through plate.
 - a. Before tightening down the UW bulkhead, ensure O-rings are present on the pass-through retainer and within the bulkhead port.
 - b. For proper maintenance, use the included tube of O-ring grease to grease the O-ring on the pass-through retainer.

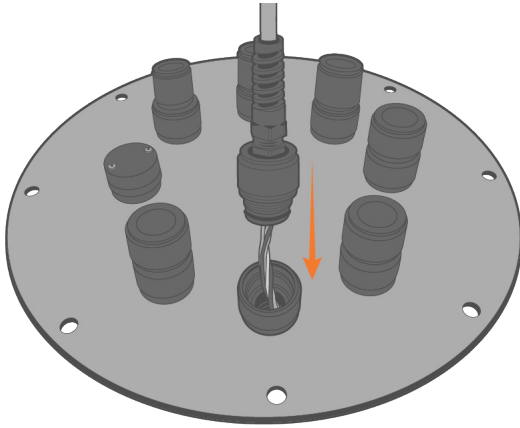


Figure 4: Install cable(s) through the pass-through plate.

- 7 Repeat this process for all cables that will be inserted through the pass-through plate and into the buoy well.
 - a. For the remaining unused UW bulkhead ports and blank retainers, ensure to grease the O-ring of the blank retainers before deployment to ensure a proper seal.

UW6 Power Bulkhead Wiring Information

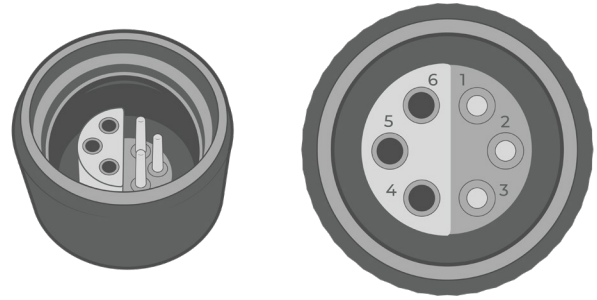


Figure 5: UW6 receptacle pin numbers.

Table 1: UW-6 Bulk wiring information.

UW6 Receptacle Pin	Wire Color
3	Red (Only on molex connector)
4	Black ^a (Both black wires)
5	Yellow ^a
6	Orange/Red ^b

Note: Information below refers to connection with a NexSens solar tower.

^aThe solar tower plug is connected to both black wires (ground) and the single yellow wire (power).

^bThe orange molex wire and the red flying lead wire are shorted together.