

## Weatherproof Extension Case (Part # S-EXT-CASE)

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The Weatherproof Extension Case is a PVC housing designed to enclose the coupler that connects two modular cables, such as two smart sensor cables or two phone cables. This case allows you to use modular extension cables in outdoor or condensing environments.



**IMPORTANT:** Failure to follow the mounting instructions properly may result in sensor failure. See Mounting on page 6 for details.

### Inside this Package

- Weatherproof Extension Case
- Silicone grease tube

### Assembly Instructions

The Weatherproof Extension Case is shipped fully assembled. To use the case with the extension cable, coupler, and other modular cable, you will need to take it apart, insert the extension cable, coupler, and modular cable, seal the ends, and then reassemble it. The following steps explain how to do this.

### Items Required

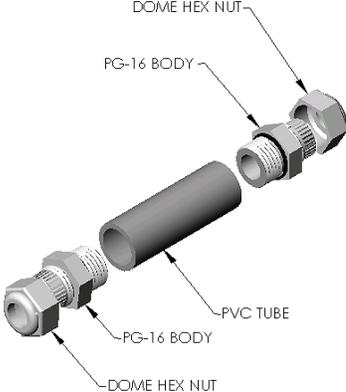
To complete the assembly instructions, you will need:

- Weatherproof Extension Case from this package
- Silicone grease tube from this package
- Extension cable with coupler (Part # S-EXT-MXXX)
- Smart sensor for HOBO Weather Station or HOBO LCD Temp/RH logger, or other modular cable
- Adjustable 8 inch or 10 inch crescent wrench
- Knife
- Pen, pencil, or other blunt instrument

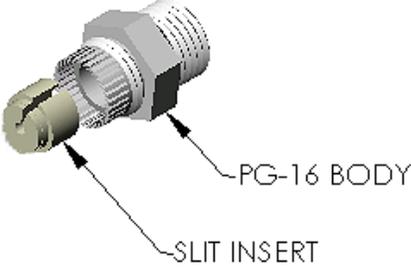
### Steps

1. Loosen and remove the dome hex nuts and the PG-16 bodies from both ends of the PVC tube.

**Weatherproof Extension Cable**



- 2. Push the slit insert out from the inside of the PG-16 body. You may need to push the slit insert out using the capped end of a pen, eraser end of a pencil, or other blunt instrument.



- 3. Some cables have an anti-snag device on the connector as shown below. If your cable has this device, check that the connector fits through the PG-16 body.

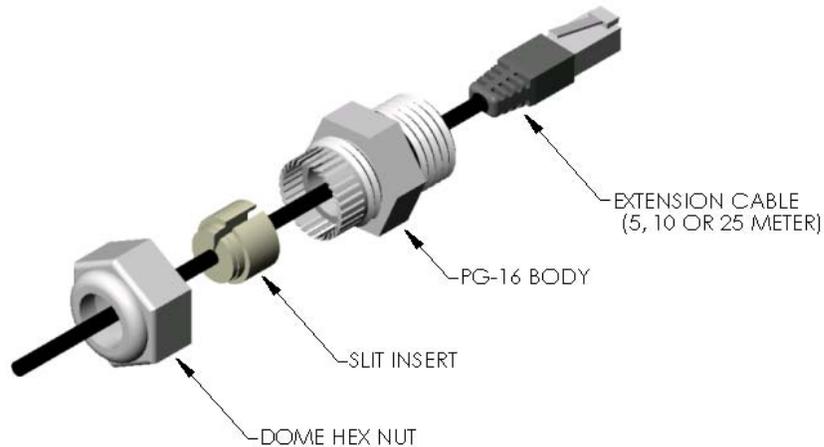


If the connector does not fit through the PG-16 body, you will need to trim the anti-snag device with a knife so that the connector looks like the one below.



### **Weatherproof Extension Cable**

4. Slide the dome hex nut onto the end of the extension cable (this is the same cable from which you may have just removed the anti-snag device). The threaded side of the dome hex nut should be facing towards the connector. Then, slide the extension cable through the serrated end of the PG-16 body. Push the cable into the slit insert and position it as shown.



5. Open the tube of silicone grease by tearing off the top and apply a small amount to the inside of the slit on the insert as shown below.



6. Push the slit insert back into the PG-16 body and slide the cable up so that the plug can be moved aside. Pushing the slit insert in at a slight angle and with a slight twist may help it slide in more smoothly.

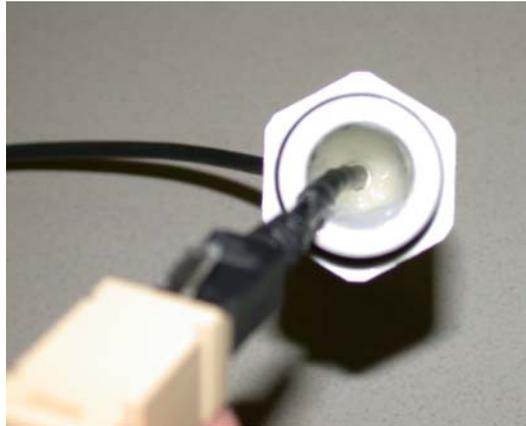


### **Weatherproof Extension Cable**

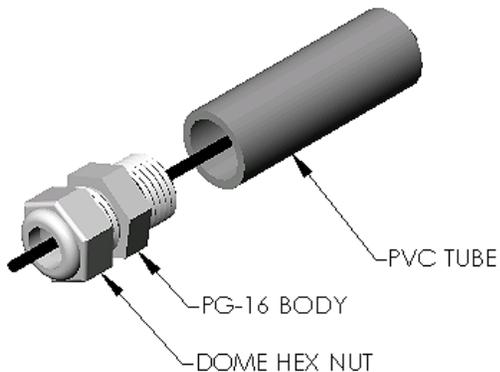
7. Apply a liberal amount of silicone grease (about half the tube) around the inside of the PG-16 fitting, making sure to cover the end of the slit insert and the extension cable.



8. Plug the cable into the coupler included with the extension cable.

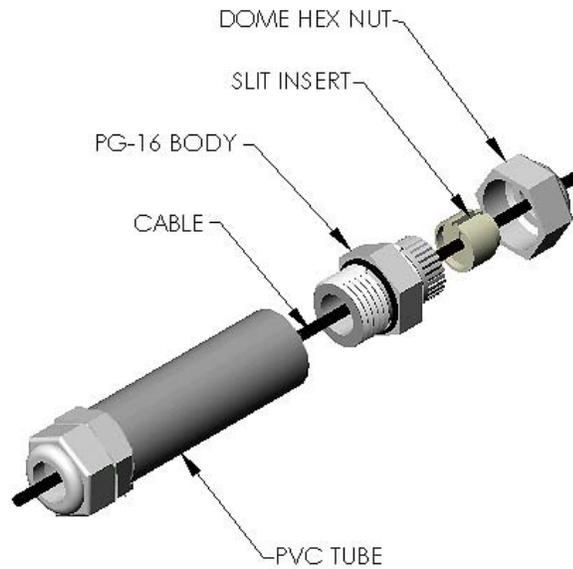


9. Slide the PVC tube over the coupler. Screw the PG-16 body onto the PVC tube and tighten by hand. At this point, you should adjust how much cable goes through the PG-16 body so that the connector is positioned in the middle of the PVC tube. Screw the dome hex nut onto the PG-16 body loosely.



### ***Weatherproof Extension Cable***

10. Repeat steps 2 through 9 on the other end of the extension case with the other cable. Be sure to slide the dome hex nut onto the cable before running the cable through the PG-16 body.



11. With an adjustable wrench, tighten the two PG-16 bodies on both ends of the PVC tube an additional  $\frac{1}{2}$ -turn, or until tight against the PVC tube.
12. Tighten the two dome hex nuts by hand, and then an additional  $\frac{1}{2}$ -to- $\frac{3}{4}$ -turn with an adjustable wrench. The dome nuts must be very snug.

## ***Weatherproof Extension Cable***

### **Mounting**

- Onset recommends mounting the sensor horizontally, if possible, high enough so that the housing will never be under water.
- The housings should not be buried.
- To prevent moisture from entering the logger connection, make sure the cables slope away from housing back down to the ground level. See below.

