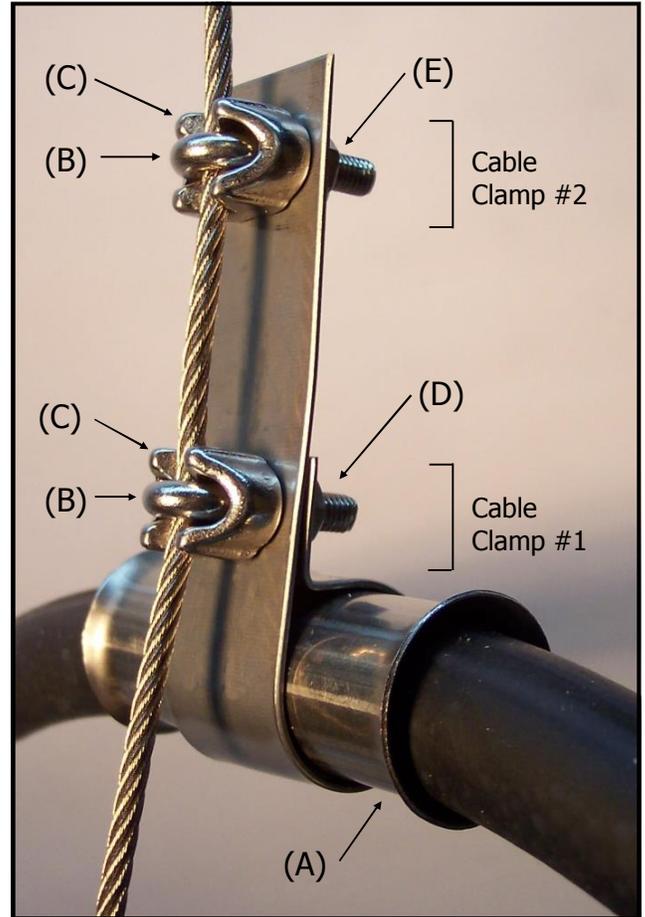


Series FS 90 Float Switch Cable Mounting Instructions

- 1) Connect the Cable & Anchor. String the 316 SS cable through the anchor's mounting eye and secure with two 316 SS mounting clamps. (Sold separately and not shown here.)
- 2) Position the Float Switches
 - a) Stretch the suspension cable (F) along the ground to allow easy measurement of each float's mounting position along the length of the cable.
 - b) Measure from the base of the anchor to each float switch mounting position. Mark each mounting position with tape. Lay each float across the cable at the marked position.
- 3) Fasten the floats
 - a) Open the J-Clamp so that the Cable Mounting tube (A) can be lowered into the clamp.
 - b) Remove the nuts from the two cable clamps that were supplied with the J-Clamp kit.
 - c) Leave the U-Bolt (B) in the saddle (C).
 - d) Compress the J-Clamp around the cord grip tube.
 - e) Install cable clamp #1: Insert the threaded end of the U-Bolt through the J-Clamp (D).
 - f) Loosely thread the nuts onto the end of the U-Bolt (D).
 - g) Install cable clamp #2: Insert the second U-Bolt through the upper portion of the J-Clamp (E).
 - h) Loosely thread the nuts onto the end of the U-Bolt (E).
 - i) Slide the cable through the center of the U-Bolts.
 - j) Securely tighten the U-Bolts
 - k) Periodically inspect the cable and tighten all screws.
 - l) Tie wrap the float cables along the length of the suspension cable to prevent entanglement.
- 4) Create a loop at the top of the cable for connection to an upper support. Create the loop at an estimated correct height for the installation - following installation, adjust the loop to remove slack. Ensure that the clamps are tight and that the mounting connection is secure.
- 5) Install the entire assembly.
 - a) Attach the top loop of the suspension cable (created in step 4) to the upper support.
 - b) Lower the entire assembly into the sump pit.
- 6) Electrical connections: (the float switch has a single-pole/double throw switch)
 - a) White - Switch Common
 - b) Black - Normally Open (NO)
 - c) Red - Normally Closed (NC)
 - d) Green - Ground (of float body)
 - Connect the green conductor of each float to ground as required by the NEC.
 - Refer to the "Notes" section below.



30021-0002-01 includes:

Qty 2 Cable clamps consisting of:

U-bolt

Saddle

Qty 2—nuts

Qty 1 J-Clamp Plate

All parts are type 316 SS

Notes:

1 - Avoid installing the floats in any location with excessive turbulence or where the floats may rub against nearby hardware. Avoid installation near a pump intake where debris may wrap around the float to inhibit operation or increase abrasion of the float.

2 - Observe the functioning of the floats and control system through several pumping cycles to ensure proper installation.

3 - If the float is applied in a 120 or 240 VAC circuit, it should be isolated with an earth leakage circuit breaker.

4 - In all two-wire applications, insulate the end of the third (unused) conductor. (It is "hot" when the float switch is in the "non active" position.)

5 - Hazardous Applications: This float switch is classified as a simple device. It cannot contain stored energy. Therefore, it requires no certification for usage in hazardous locations when applied with an approved intrinsically safe barrier.