



Submersible Cap and Cable - S653/S653W

Mechanical Installation

CONDUIT CONNECTION. Submersible Combination Electrodes are mounted in the Threaded Cable Cap Assembly (see below for information about using the assembly with conduit). This cap assembly has a 1/2" NPT thread to which a coupling or reducing bushing and the needed length of supporting pipe can be attached. The pipe provides mechanical support for the electrode and protects the cable from contact with the liquid being measured. The coupling and pipe can be made of any material which is compatible with the chemicals and temperature in the system being measured. The upper end of the pipe should be sealed to prevent the entry of liquids. Refer to Figure 1 for installation details.

ELECTRODE INSTALLATION. The electrode mounts in the cable cap by a 1/4 turn which locks together the mating BNC-type connectors. Refer to Figure 2. It is important that the electrode be locked in position and the following stepwise procedure is suggested:

A. While pushing the electrode into the cap, rotate it clockwise until it slips into the notch of the mating connector. This step requires no real amount of force and, when completed, the cap will cover most of the electrode's top O-ring.

B. Now, without further rotation, push the electrode into the cap until the bottom O-ring is mostly covered and the black washer almost touches the cable cap.

C. Finally, again rotate the electrode clockwise until it "clicks" into the locking position (about 1/4 turn). Now the bottom O-ring will be fully covered and the bottom of the cap will rest firmly against the electrode's black washer.

ELECTRODE REMOVAL. Simply reverse installation procedure.

IMPORTANT NOTES: 1) As supplied the electrode's O-rings have a light coating of silicone grease. After several insertions and removals, it may be necessary to re-lubricate the O-rings. A stopcock or vacuum-type silicone grease should be used. 2) **DO NOT IMMERSE CAP AND CABLE ASSEMBLY INTO SOLUTION WITHOUT ELECTRODE ATTACHED!!!**

