Cable and Bulkhead Connector Maintenance

Cautions

→ Corroded connectors can cause loss of data and additional costs for service.

→ Corroded connectors can cause damage to the sensor that is unserviceable.

→ Do not use cleaners that contain petroleum or ketones.

→ Do not use the cable to lift the sensor. The cable, cable splices, and bulkhead connectors can be damaged.

Notices

✓ Attach cleaned and lubricated dummy connectors to the sensor immediately after each deployment to prevent the bulkhead connector from damage.

✓ Do not connect or disconnect connectors under water.

1. The manufacturer recommends that the user examines, cleans, and lubricates bulkhead connectors each time they are connected. Connectors that are not lubricated cause wear and tear on the rubber that seals the connector contacts.

2. Clean the connector contacts with isopropyl alcohol. Apply as a spray or with a nylon brush or lint-free swabs or wipes.

3. Flush the contacts with de-ionized or distilled water. Use a wash bottle with a nozzle to flush inside the sockets.

4. Shake or wipe the water from the contacts.

5. Examine the sockets and the rubber on the pins to make sure there are no problems.
   a. Use a flashlight and magnifying glass.
   b. Look for cracks, frayed scores, and delamination of the rubber on the pins and inside the sockets.
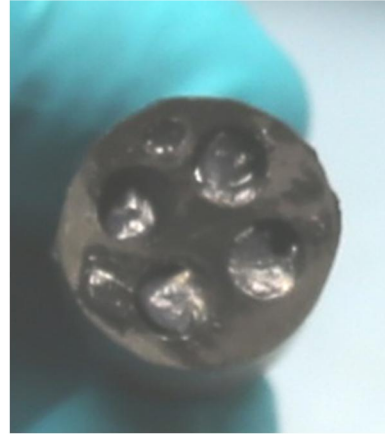
Corroded connector	Damaged contact	Damaged socket face

6. Use a finger to place a small quantity, approximately 1.5 cm in diameter of Dow Corning® 4 Electrical Insulating Compound on the socket end of the connector.

Lubricant on socket end of connector

Lubricant pushed into the sockets of the connector

7. Use a finger to push approximately 10% of the lubricant into the sockets.

8. Connect the connectors.
    - There should be lubricant pushed to the sides of the connectors.

9. Clean the unwanted lubricant from the sides of the connectors.
    - The connectors are now lubricated and the connection is waterproof.

Visit http://macartney.com/support for videos showing how to care for connectors.