

OCEAN TECHNOLOGY SYSTEMS

3133 W. Harvard St. • Santa Ana, California 92704 • Telephone: 714/754-7848 • FAX 714/966-1639

OTS Hi-Use Connector Maintenance

Materials needed:

Silicone Grease, OTS PN: P076 (oz.), or Dow #7, Dow #111, or equivalent

Plastic bristle brush (toothbrush or similar)

Pipe cleaners

Applicator bottles with needle tips

Bottle each:

CLR (Calcium Lime Rust remover) or white vinegar

Alcohol

Water

Inspect and clean connectors. Clean connectors should be lubricated with a small amount of silicone grease. A small amount placed in the sockets of each is sufficient to lubricate the posts when the connectors are engaged. Wipe away excess. There are too many variables to suggest a specific frequency of silicone grease application so whether application is warranted, should be determined upon inspection.

Connectors that have been exposed to sand, dirt, mud or grit, should be cleaned prior to engagement. Use judgement to determine if a simple rinse will remove the debris or if additional cleaning is necessary. A pipe cleaner or similar small brush should be used to remove any debris from the sockets. Plastic bristle brush for gross cleaning of the posts and contact surfaces. The connectors are wet pluggable and waterproof, pressurized water can be used to remove debris as well.

If the connectors, especially the sockets, are found to be oxidized, soaking a small amount of CLR or white vinegar for several minutes (more or less depending on severity). Swab out the socket with a pipe cleaner. Repeat as necessary to remove as much corrosion as possible. Flush with water and alcohol and lubricate as described.

Always inspect prior to diving or using the connectors for whatever application. In utilizing silicone lubrication, the connectors are prone to collecting dirt, sand, and debris. During inspection, ensure they are free from debris prior to engaging connectors. Refrain from disconnecting underwater, especially salt water with communication equipment (hardwire communications) activated. This will result in squealing and potential damage of the pins to the connectors at the umbilical end. The connectors should be able to engage and disengage with a moderate push or pull.

