PRODUCT DATASHEET

OPTO/ELECTRIC CONNECTOR
(POSITIVE PRESSURE COMPENSATION)

DESCRIPTION
This connector pair was developed for a Navy Sonar system. It is an Opto/Electric hybrid with 4 single-mode optical channels. The electrical channels include 2#10 and 12#16 contact sets. The plug features a Positive Pressure Compensator with internal reservoir.

KEY FEATURES
- Mated Length: Approx. 15-16”
- Seawater compatible features
- Extra length of fiber to be contained for later termination
- Oil filled and pressure compensated
- Depth Rating: 2,500 ft. min
- Positive pressure compensator (spring/piston system) incorporated

DESIGN RATINGS & TESTING
- Amount of leaking oil before pressure compensator fails: 4.0 cubic in. min
- System cannot be overloaded due to thermal expansion of oil (oil will leak out before internal parts get damaged due to high pressure)
- IR rating: 900 Mohms min. measured at 500 VDC
- Voltage rating: 2,500 VAC
- Optical rating:
  - Optical insertion losses: .5 dB max measured at 1310 and 1550 nm when mated with Assembly 7749-103
  - Back reflection: -40 dB max measured at 1310 and 1550 nm

MATERIALS
- 316 SST Per ASTM A484
- Passivated per QQ-P-35 or Electropolished
All reasonable efforts have been taken to ensure that the information contained herein is accurate at the date of publication, but no representation or warranty as to the accuracy or completeness of such information is intended or to be implied by its inclusion herein. Any and all representations and warranties pertaining to the information and products referred to herein shall be set forth in standard sales order form. In addition, SEACON reserves the right to make changes to the contents hereof without notice, therefore it is suggested that at the time of inquiry, the appropriate sales office or factory be contacted directly for verification of published specifications and products availability.

© 2014 SEACON
ALL RIGHTS RESERVED