

PRODUCT DATASHEET

OPTO/ELECTRIC CONNECTOR (POSITIVE PRESSURE COMPENSATION)



MINU-4FOSM/2#10/12#16-CCPL-PBOF

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

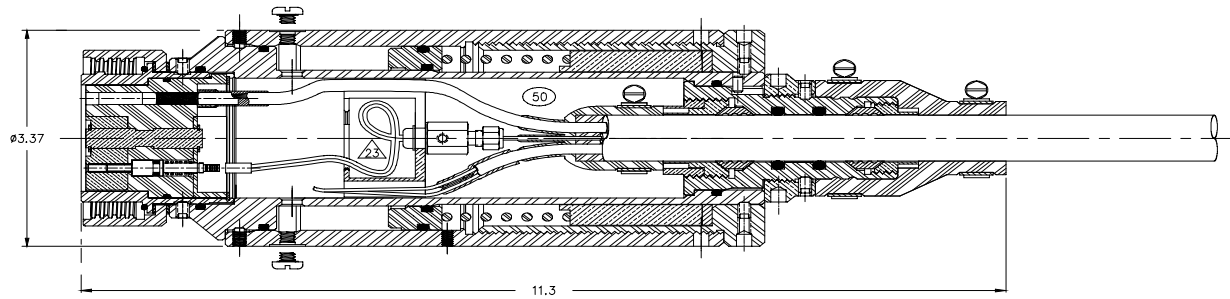
DESIGN RATINGS & TESTING

- 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

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MINU-4FOSM/2#10/12#16-CCPL-PBOF



MINU-4FOSM/2#10/12#16-FCRL-RA



FCRL-RA & CCPL-PBOF

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OPTO/ELECTRIC CONNECTOR

Rev 2

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