

Teledyne Impulse-PDM

Defence Projects

Custom Engineered Subsea Connectors and Cable Solutions
Engineering for the underwater environment

EUROFIGHTER

TI-PDM have recently received a repeat order from Reliant Design and Development (RDD) for some highly specialised cable assemblies. RDD is a primary supplier of ground test equipment to the EuroFighter programme.



RDD-EuroFighter Cable Assemblies



TI-PDM Bulkhead Connectors

The test cable assemblies are for power & signal transmission within the aircraft's refuelling system. Designed and manufactured at TI-PDM, male & female versions have been produced depending upon which side of the power circuit will be live and two differing keyways have been incorporated so as to prevent cross connecting the AC and DC power cable assemblies. To minimize the potentially high tooling costs associated with manufacturing a number of differing designs, a degree of commonality has been engineered into the cable and flange connectors.

PAST PROJECTS

- Navigation buoy electrical cubicles
- Special underwater electrical (including high voltage) connectors
- Water blocked penetrators
- Polyurethane encapsulated sensors and transducers
- Submarine communication cable assemblies
- Underwater cable bend control devices
- Cable strain termination



TELEDYNE IMPULSE-PDM
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A Member of Teledyne Marine

Defence Projects

Custom Engineered Subsea Connectors and Cable Solutions

TYPE 45

Teledyne Impulse-PDM (TI-PDM) has been selected by BAE Systems to produce three specialised connectors for the new sonar fitted to the Royal Navy's Type 45 Anti-Air Warfare Destroyer. These connectors & cable assemblies link the transducers of the bow array to the electronics package.

The custom connectors (TI-PDM 516) have been manufactured from a client specified material and comprise what is essentially a double ended bulkhead unit and two mating connectors.



TI-PDM 516 Connectors for TYPE 45

Groups of transducers are linked via two way, wet pluggable cable assemblies and a breakout out moulding to a TI-PDM 516 connector. This connector plugs into the double ended unit.



Type 45 Navy Ship

A connector of opposite gender plugs into the other end, taking the signals to the electronics package. The configuration is repeated for each group of transducers.

All cables have a neoprene outer sheath and all moulding uses TI-PDM Elastomers. TI-PDM's well proven materials and bonding expertise is invaluable in ensuring the quality and reliability of the product.

TI-PDM has developed a good working relationship with MOD contractors based on its experience and its ability to produce high quality, competitively priced, products. It also has the necessary management and quality structures in place to handle defence projects.