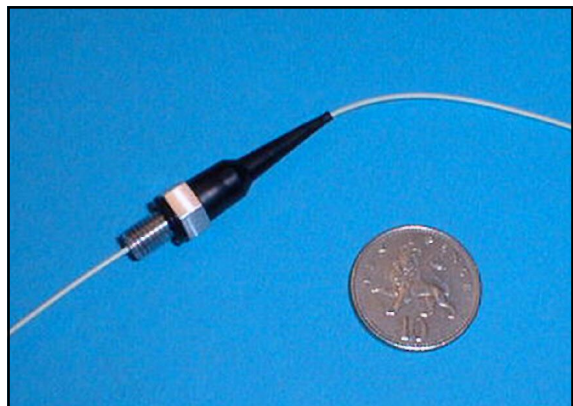


PDM

Subsea products and services

Courtesy Bofors Underwater Systems



Fibre Optic Penetrators

PDM Fibre Optic Penetrators



Fibre optic penetrators offer unique optical properties. Unlike connectors which include several optical interfaces, penetrators have one at the most. This results in a very low loss termination - less than 1dB. In addition the overall interface cost of a penetrator is much lower than an equivalent connector system. Long term reliability is also high due to the optical simplicity of the product.

The PDM range of penetrators can be produced for single or multimode fibres and the component is fully water blocked. The penetrators are cleared for use at pressures in excess of 200bar (2000m).

The penetrators are available as either dedicated fibre optic components or as hybrids, with a combination of optical and electrical cores. With the development of new safety regulations, hybrid fibre optic units offer a safe solution to the combination of power and signal transmission in a single cable.



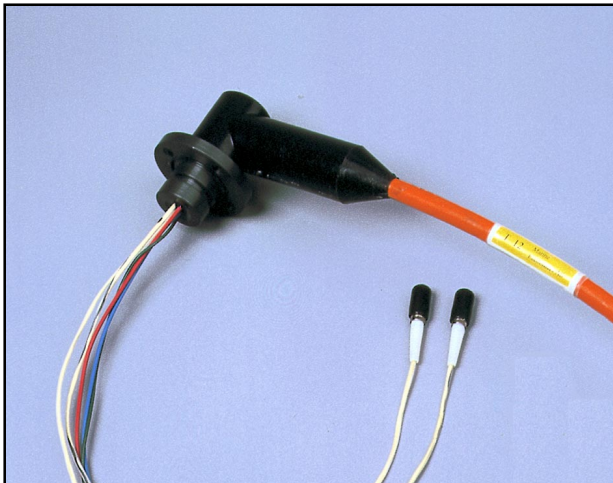
Production fibre optic terminations

PDM Fibre Optic Penetrators are now in use in several major underwater systems; including submersibles for mine disposal, communications and instrumentation.



PRODUCT DATA:

Configuration:	Bulkhead or panel
Mounting:	Flange mounted or threaded
Form:	Fibre optic or fibre optic/electrical
Connections:	As required by client
Optical Mode:	Single, multimode or combination
Threads:	To client specification
Shell:	Anodised Al, 316 SS or Titanium
Pressure:	Tested to 200bar
Format:	Fully waterblocked
Quality (Neptec):	BS EN ISO 9001:2000



Hybrid fibre optic penetrator assembly

Please contact PDM if you require advice on this product, or our range of underwater electrical connectors. Our applications engineering service is free.

Product brochures are available on

Cable Assemblies
Epoxy/Rubber Moulded Connectors
High Density Connectors
Design and Development Projects
Underwater Pluggable Connectors
Micro Wet Pluggable Connectors
Wet Pluggable Connectors
Polyurethane Elastomers
Transition Zone Connectors
Quickcure Moulding System

Defence Projects
Titan Connectors
Polyethylene Moulding
Encapsulated Products
Bend Control Products
IE55 Connectors
Hybrid Connectors
Fibre Optic Connectors
Penetrators
Polyethylene Products

PDM Neptec



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BS EN ISO 9001:2000