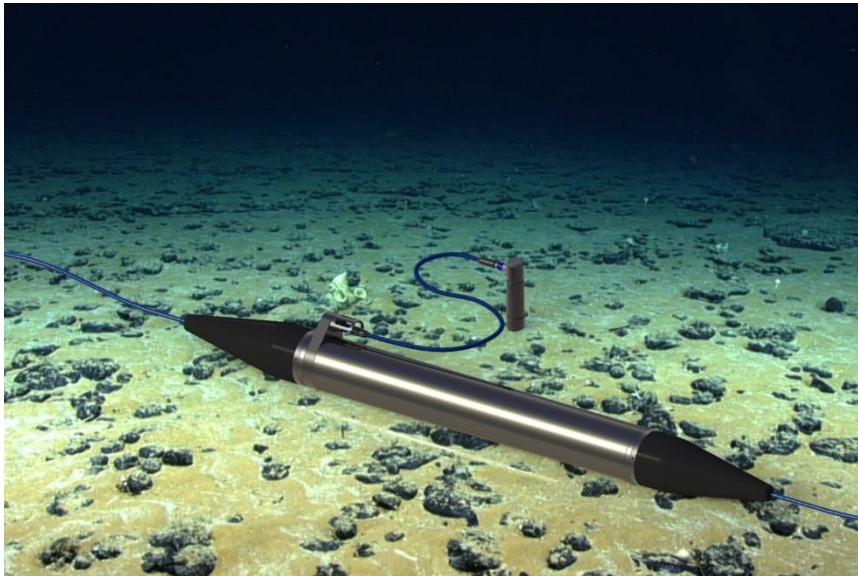


OceanTools

Fibre Optic Cable Termination

Repeaters, branches and tsunami warning

Deepwater fibre optic termination and repeater housings have been developed by **OceanTools** for subsea telecommunications links that will form part of a tsunami early warning network.



Overview

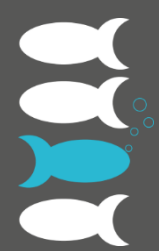
OceanTools has designed deepwater fibre optic termination housings for either telecommunications repeaters and branching units or as part of tsunami early warning systems. The standard product offers internal space measuring 1200mm long, with an additional mechanical termination and bend restrictor at each end, all rated for 7000m seawater deployment.

Inside the internal $\text{\O}150\text{mm}$ housing, fibre and electrical terminations are made up on an internal electrically insulated tray. The design of the housing allows for the whole termination to be wired and spliced, then to have the whole tube housing slid over the internal tray and one end termination making for easy assembly when in the field.

Each end of the main housing has the main mechanical strain termination onto the load bearing braid of the $\text{\O}15\text{mm}$ cable. Within these mechanical terminations are also the electrical and fibre feeds through into the main housing. A bend restrictor protects the strain terminations and cable exit from the housing assembly.

The assembly is designed to allowing for external additions using an adaptor plate. Each adaptor plate can have two external face pressure rated connectors for external electrical connections, in this case seismic and pressure sensors. Three adaptor plates can be added at one end allowing for up to six external connections if required.

The units are highly customisable including depth ratings to the client's specific requirements and a choice of materials including stainless steel, super duplex, titanium and beryllium copper.

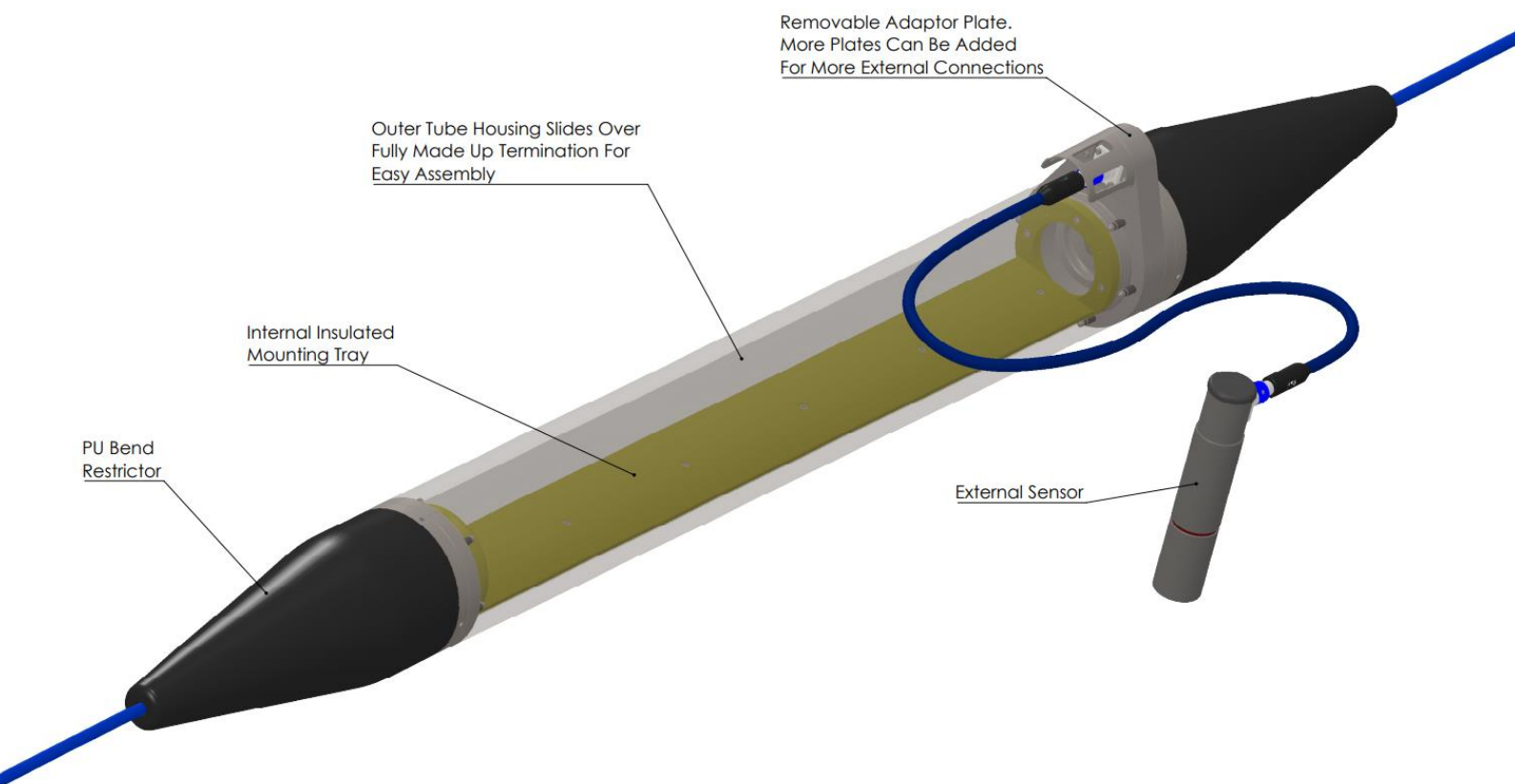
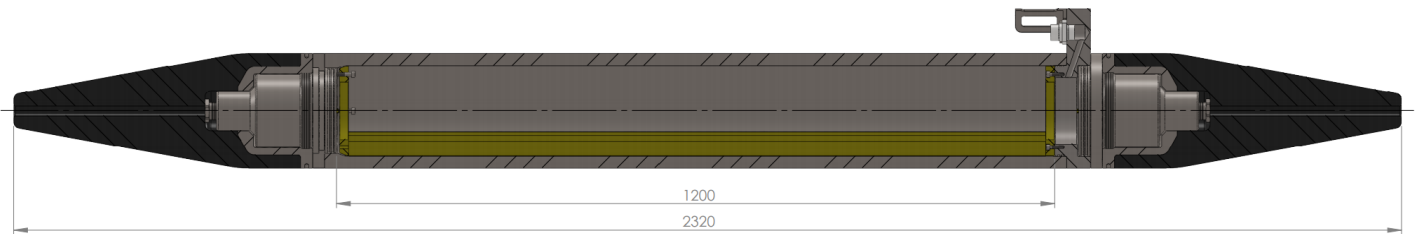


OceanTools

Fibre Optic Cable Termination

Repeaters, branches and tsunami warning

Drawings



Related Work

The OceanTools team of subsea design engineers has years of experience across a wide range of maritime engineering and subsea tooling disciplines. We have designed custom subsea pressure housings in a range of sizes, shapes and depth ratings down to full ocean depth. We can also design integrated underwater deployment frames to accommodate sensors and supporting equipment, and welcome the opportunity to undertake other custom engineering projects.

Product datasheets, GA drawings, case studies and other supporting documents are available to download from data.oceantools.co.uk

All specifications are subject to change without notice. E&OE.

Version 2 (29.09.2020)



OceanTools Ltd
OceanTools House Claymore Drive Aberdeen AB23 8GD
t: +44 1224 709 606 e: sales@oceantools.co.uk
www.oceantools.co.uk