

Flexlok - Tether & Umbilical Management



A Strong Alliance

Flotation Technologies and Dunlaw Engineering have signed an alliance agreement enabling the two companies to develop and manufacture products jointly. The first alliance product to be launched is FLEXLOK. This product has been developed to support, decouple load, and prevent over bending for tethers and umbilicals used with ROV's, trenchers, subsea ploughs, and other equipment.

Joint Design and Manufacture

Flexlok is designed using Dunlaw's extensive elastomer engineering knowledge and experience with bend restrictors. Flotation Technologies brings expertise in the manufacture of high quality buoyancy materials capable of operating at depths to 3000m and beyond. The combination produces a product that takes tether and umbilical management to the next level.

Buoyancy and Bend Restriction

Flexlok outer shells are manufactured from an impact resistant grade of Flotec™ syntactic foam. These are linked together by a tough, resilient solid Polyurethane inner core. The number of element can be added or subtracted to give a flexible buoyancy content. These elements are cast in half-shell form to allow the product to be fitted at any stage of the vehicle deployment; additional elements are then added which interlock with those already in place. The design of the elements allows each one to move a small angular distance. When this distance is projected over the length of the restrictor, the lock up radius is formed.

This product is seen to be the most comprehensive solution to the problem of tether and umbilical management in the subsea marketplace. Extensive F.E.A. and OrcaBend analysis assure compatibility with *your* system. The product is easily removable, and elements can be taken in and out of the string without the need for complex banding which can lead to snagging and damage to overboarding tools.



Uses:

- ROV's
- Trenchers
- Subsea Ploughs
- Pipeline Pull-in Tools
- Submarine Rescue Vehicles

Benefits:

- Modules can be added/subtracted as requirements change
- Provides buoyancy and bend restriction in one design
- Polyethylene or Cast elastomer coatings can be added for additional impact protection

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