LEONI SeaLine®

Underwater cables with reduced biofouling effect

Optional characteristics:

- Seawater resistant
- Brackish water resistant
- Fresh water resistant
- Longitudinally and transversally water blocked
- For fixed and flexible installation

Biofouling is one of the biggest problems in long-term exploration of underwater cables as this process starts only after some hours using. The cables will increase in diameter and weight because of the growing of marine plants and animals like polyps, muscles, starfishes or algae.

LEONI has developed a new sheathing material for underwater cables which reduces the settlement and growing process mainly of first micro-organic livestock. The main advantage of the material is the implementation of lightly acid surrounding along the cable surface and therefore a long-time effect.

The effect was shown during several 6-month storage tests of cables with different sheathing materials and material surface variations in the Baltic Sea.

LEONI can implement the new developed material in all types of polyurethane based sheathing materials. The material is resistant against Sea water and also fresh water. It is suitable for fixed installed and also flexible cables. The material can be used for single layer and also for outer layer in multilayer sheath design.

The new designed sheathing material can be used for example for:

- Fixed installed underwater cables
- Underwater cables for flexible application
- Buoyant cables
- Towing underwater cables

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