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## Handbook on Marinized Terrestrial Cables Edition 2001



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The use of underwater optical cables, considered as coming under the heading of terrestrial links, has dramatically increased in recent years.

This handbook describes the characteristics, including the installation methods and testing, of a particular type of underwater cable known as marinized terrestrial cable (MTC), which, based on a conventional multiple fibre terrestrial cable core, is protected to withstand the shallow water environment and designed for specific repeaterless applications.

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# **Handbook on Marinized Terrestrial Cables**

## **Edition 2001**

The use of underwater optical cables, considered as coming under the heading of terrestrial links, has dramatically increased in recent years. A wide variety of application and environmental conditions can be encountered, and cable designs may differ according to customer requirements.

This handbook describes a particular type of underwater cable known as marinized terrestrial cable (MTC), which is designed for specific repeaterless applications and installation in shallow water in order to achieve the most appropriate solution.

The marinized terrestrial cable has been developed within the framework of terrestrial cable technology as a cost-effective means of extending terrestrial links to the underwater environment. It is suitable for certain low-risk applications, depending on the system requirements. It is optimized for use in non-aggressive shallow waters by virtue of having a reduced repair capability, varying from “repair at convenience” to simple replacement, depending on the application.

Many issues are similar, in principle, to those pertaining to submarine cables, and the main topics covered in the handbook include:

- cable characteristics, construction, design, structure and features;
- typical applications, environment, location and comparison with submarine cables;
- fibre splicing and closures;
- survey and route planning;
- characteristics of laying equipments/vessels;
- installation techniques and protections;
- repairs;
- testing.

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