

# Test solutions for submarine networks

Ensuring cost-effective 100G/200G/400G  
submarine transmissions

Smarter  
network  
in sight.

**EXFO**

# Ensuring cost-effective 100G/200G/400G submarine transmissions

## Commissioning and turn-up



### **FTBx-88480—400G multiservice testing**

Compact, multiservice 400G test solution built with 112G electrical lanes and EXFO's modular open transceiver system (OTS).



### **FTBx-88260—100G multiservice testing**

Next-generation advanced multiservice testing for 1G-100G (including 25G/50G), plus ability to handle multiple transceiver types.



### **FTBx-8870/8880—10G multiservice testing**

Versatile 10G multiservice test modules for lab and field applications.



### **FTBx-5245/5255—optical spectrum analyzers (OSAs)**

Highly accurate, easy-to-use OSAs for current and next-generation networks.



FTBx-88260 featuring EXFO's OTS

### **Open transceiver system (OTS)**

The OTS is an evolutionary design enabling any transceiver (now or future) to fit into an EXFO test solution. Inserts to test specific transceiver types eliminate the need to replace entire testing modules and can be interchanged directly in the field. Available on the FTBx-88460 and FTBx-88260 test modules.

# Fiber characterization and troubleshooting for submarine networks



## FIP-500B—fiber inspection scope

Fastest inspection in the industry for both single-fiber and multi-fiber connectors, with the most reliable results. Self-contained, fully automated tool for zero-button testing.



## FTB-7600E—ultra-longhaul OTDR

The FTB-7600E OTDR offers a dynamic range of up to 50 dB; this module can test over distances of up to 250 km.



## FTB-5700—single-ended dispersion analyzer

Combined CD and PMD measurement in a highly automated, high-efficiency, single-ended test solution.



## FTB-5800—chromatic dispersion analyzer

Field-ready unit for all chromatic and polarization dispersion testing needs, from verifying the capacity of legacy fiber to upgrading a network to a given rate.



## FTB-5500B—PMD analyzer

Patented design: Test through EDFAs. Compliant with TIA-FOTP-124A standard. Testing time under 5 seconds for any PMD range.



## Remote fiber testing and monitoring

Remotely operated OTDR at the landing stations for qualification and proactive monitoring of immersed optical cables up 200 km from shore. Powered by iOLM's patented dynamic multipulse technology.

## Total link characterization

is an important step that provides a view of the entire link, including all interconnection points, fusion splices and fiber sections. Link characterization, which includes CD, PMD and OTDR tests, also serves as a future reference when performing commissioning and troubleshooting on the same link.

The critical weakness of undersea cables is their vulnerability to damage caused by fishing and vessel anchoring. Constant surveillance of these optical fiber cables requires an **OTDR monitoring solution**.

These easy-to-manage units cost-effectively monitor coastal route topologies (festoon style), and also keep you up to date on the status of the fibers and cables.

They also use various messaging channels to alert you of any potential impairment to your most valuable asset.

# 100G/200G/400G submarine network deployments

All-in-one 100G/200G/400G commissioning, turn-up and troubleshooting from a single test platform

## Scalable, versatile, high-density platform



FTB-4 Pro platform

## + Flexible, reliable best-in-class transport testing



FTBx-88480—400G multiservice testing



With iOptics, validate any pluggable transceiver from 10M to 400G, covering SFP, SFP+, XFP, CFP, CFP2, CFP4, CFP8, QSFP+, QSFP-DD and QSFP28

## + Agile, optical spectrum analyzer

FTBx-5245/5255 highly accurate OSAs



OTN

FLEXIBILITY

SCALABILITY

CAPEX SAVINGS

### LEARN MORE

#### Submarine network case study:

Hawaiki ushers in a new era of digital communications in the Pacific

#### Blog post:

Testing submarine cables: why it's a big deal

More about our test offering for submarine networks



Need advice or information?  
Reach out to our test experts or browse insightful content on [EXFO.com](https://www.exfo.com)

