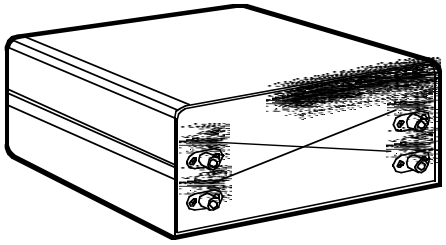
BLACK BOX®
NETWORK SERVICES

Fibre Optic Network Simulator



Imitate a fibreoptic installation with this portable simulator customized to fit your specifications.

Key Features

- *Enables you to perform functional and performance tests on equipment without a real network.*
- *Realistically simulates a two fibre, multimode backbone optical fibre link segment.*

Technically Speaking

Connectors at the ends of fibre #1 are labeled TX 1 and RX 1. Those at the ends of fibre#2 are labeled TX2 and RX2. In a typical application, TX1 and RX2 would be connected to one fibreoptic network device (for example, a gigabit Ethernet Hub), and TX2 and RX 1 to a second device (for example, a Gigabit Ethernet Network Interface Card or NIC). Note, however, that the two fibre cables are bi-directional.

Overview

The Fibre Optic Network Simulator duplicates an installed fibreoptic facility, providing a realistic environment for classroom simulations, technical demonstrations and and equipment testing.

In laboratories, the Fibre Optic Network Simulator can be used in performance testing of new designs and equipment on the workbench for data links, transmission equipment, or other prototype fiberoptic designs.

For technical schools and training seminars, it simulates a network on which students can perform loss-test sets, identify distances to splices, determine attenuation, and train how to use Optical Time Domain Reflectometers (OTDRs)—all without setting up a full-scale network in the classroom. And with all the custom options you can get, you can arrange the network to suit individual training requirements. Then have your students identify distance to each splice, type and value of the splice, attenuation of the entire link or other useful information.

Field technicians can test fibreoptic equipment before it is installed. It is truly field-portable for troubleshooting, so you can use it to analyze connector loss measurements at the patch panel.

The unit is fully characterized for loss, attenuation per km, and splice location/value.

See customizing options under ordering information **below**.

Specifications

Fibre Length — 275 meters, ± 5 meters, dual-channel

Fibre Type — 62.5/125 µm graded-index Multimode

Maximum Loss per Channel — 2.5 dB @ 850 mn nominal

Connectors — (4) ST ceramic ferrule

Operating Temperature — -20 to 60° C

Size — 8.4 x 15.2 x 16 cm

Weight — 0.5 kg

For these and other components...

Call our expert Technical Support Staff for all your Testing needs. They'll help you find the best equipment for your application.

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME	ORDER CODE
Fibre Optic Network Simulator	TS226A-ST

Note: Custom options include the following:

- Connector types: ST®, SMA, FC, Biconic, and D4.
- Fibre types: Multimode 50/125 µm and 100/140 µm, and single-mode 8.7/125 µm.
- Fibre length available from 100 meters to 15 km.
- Fusion (standard) or mechanical splices are available upon request.