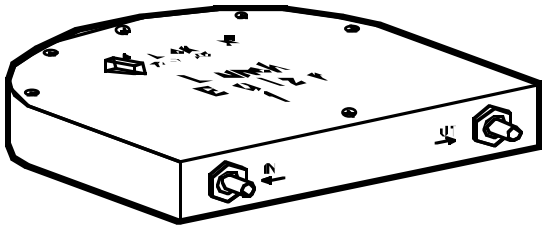
BLACK BOX®
NETWORK SERVICES

Launch Equalizer 100 and Launch Equalizer 500



Don't settle for guesses or for not really knowing: Dramatically reduce launch-pulse uncertainty in your fiber-cable test measurements.

Key Features

- *Delays optical launch pulses, making it possible to get accurate test results for initial lengths of fibreoptic cables.*
- *Launch Equalizer 100, a 100-m (328-ft.) fiber coil, delays the full width of a 500-ns pulse. Available in multimode and single-mode versions.*
- *Launch Equalizer 500, a 500 m (1640 ft.) fibre coil, delays the full width of a 2.5-µs pulse into single-mode cable.*
- *All versions have universal connectors for connection to cables with ST, SC, FC, DIN, E2000, or other types of 2.5-mm-ferrule termination.*
- *Daisychainable for longer pulse-delay times.*
- *Compact, weather-resistant, and modularly stackable cases.*

Testing fibreoptic cable usually isn't as much of a pain as testing copper cable. But there's one problem with fibre that can test the patience of a saint: Light pulses sent into the cable (the "launch pulse") by your Optical Time Domain Reflectometer (OTDR) or other test device might saturate the receiver so badly that you can't get a good reading for some time after the width of the pulse.

And given how far light can travel in the duration of a pulse, you might have no idea what's going on in the first 10 or 20 metres of your cable. Maybe not even in the first 50, 100, or even 500 metres or more!

That's where a Launch Equalizer comes in. If you put one between your OTDR/tester and the length of fiber cable you want to test, the Equalizer will delaythe launch pulse. By the time the light signal hits your cable, your test receiver should be able to handle it—and get all the measurements you need.

Our Launch Equalizer 100 contains a 328-ft. fibre-cable coil, and delays launch pulses 500 ns wide. The multimode version of the Equalizer 100 is designed to be used with 62.5/125-µm multimode cable (versions for other core/cladding diameters are available on a special-quote basis). The single-mode version is designed for 9/125-µm single-mode-cable.

Our Launch Equalizer 500 contains a 1640-ft. fibre-cable coil, and delays launch pulses 2.5 µs wide. It is designed to be used with 9/125-µm single-mode cable (multimode versions are available on a special-quote basis).

The Equalizers' universal connectors are compatible with any fiber termination that has 2.5-mm ferrules, including ST®, SC, FC, DIN, and E2000.

Their small, rugged cases are ideal for field use, and can be modularly stacked. You can also run patch cables between Equalizers in order to precisely match the fiber-length equivalent you'll need in order to delay wider launch pulses (at approximately 1 m/3.3 ft. for each 5 nanoseconds.)

Selected Specifications

Typical Loss — <0.5 dB at 1310 nm

Temperature Tolerance — –40 to 55° C

Humidity Tolerance — Up to 90% noncondensing

Enclosure — Delrin®

Size — 2.5 x 12.4 x 12.7 cm

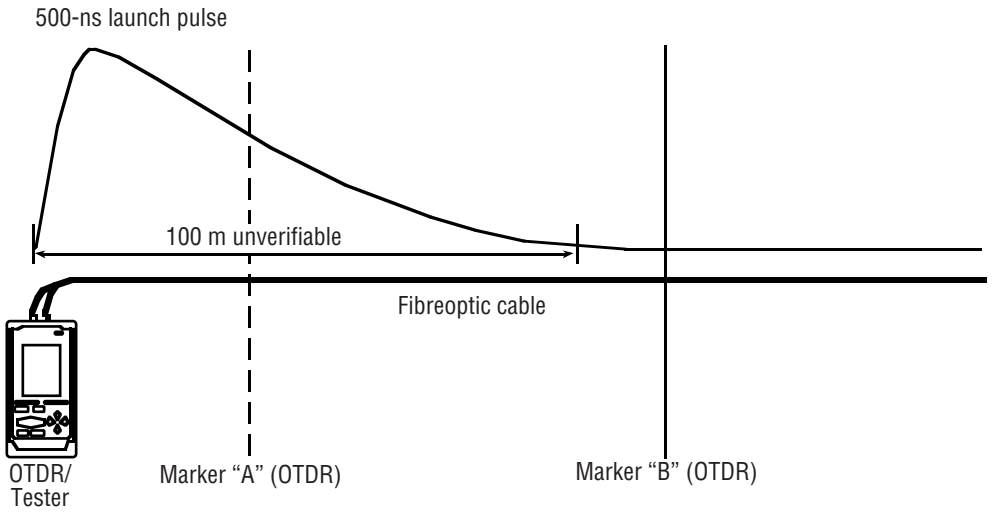
Weight — 0.3 kg

Ordering Information

PRODUCT NAME	PRODUCT CODE
Launch Equalizer 100, 62.5/125 Multimode	TS102A-MM
Launch Equalizer 100, 9/125 Single-Mode	TS102A-SM
Launch Equalizer 500 (9/125 Single-Mode)	TS501A-SM

(Selected other length-equivalents and core/cladding diameters are available as special quotes.)

Without a Launch Equalizer 100, you might test a cable with an OTDR and still be clueless about what's going on in the cable's first 100 m (328 ft.)...



...but with *the Equalizer, the problem of launch pulses masking the initial length of fibre is greatly reduced, and you can get accurate measurements—right from the start.*