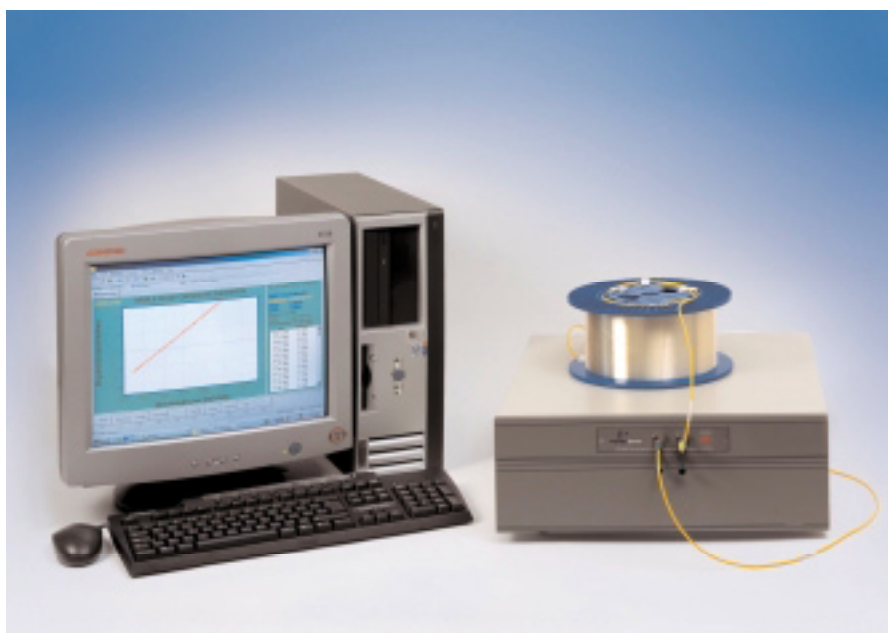


SPL400

Cable Strain Measurement Systems



Description

The **PE.fiberoptics** SPL400 Strain Measurement System is a fiber test instrument based on the latest DIGITAL DSP technology, designed to measure the elongation and transmitted power in optical fiber cables during various mechanical and environmental tests.

Features

Fiber strain and elongation in single mode and multimode fibres, cable and ribbons

- Fiber length with millimeter resolution
- Transmitted Optical power
- Fully compatible with TIA and IEC standards
- Multiplex option to automatically measure up to 90 fibers in a cable
- Options for: Chromatic Dispersion, Pmd And Ribbon Fiber Skew

Overview

The **PE.fiberoptics** SPL400 Strain, transmitted optical Power and fiber length measurement system is a member of a new range of digital instruments for the characterisation of optical cables. The SPL400 offers high accuracy and repeatability and no moving parts for trouble-free use. In addition, the SPL400 offers higher measurement speeds with a compact design to minimise work space requirements –and of course the SPL400 is based on the very latest state-of-the-art digital technology. It operates by measuring the transit time (and hence fiber length) of light of known wavelength through the fiber.

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Changes in fiber length (strain) in the fiber are automatically processed and presented graphically to required. Standard Tests include measuring fiber strain versus cable strain, fiber elongation versus temperature. The optical power transmitted by the fiber is always simultaneously available. Systems purchased with the optional multiplexers can automatically measure multiple fibers in the test cable, and includes a reference channel facility for the ultimate in measurement stability. In addition, one fiber can be used as a simple cable extensometer. Special software to allow ribbon fiber skew to be measured is also available.

Outline specifications

Fiber Connectors:	FC-APC, fitted as standard others available on request
Dimensions:	17" x 6" x 19" (43 x 15 x 49 cm)
Weight:	42 lb (19 kg) approx.
Power Requirements:	110/220/240 V , 50/60Hz AC, 270W
Recommended Operating Conditions:	15-30 °C, 0-70% RH

Ordering information

The SPL400 is available in three versions:

- SPL400-1 Includes measurement of strain, transmitted power and length at 1310nm OR 1550nm fixed wavelength (specify wavelength)
- SPL400-2 Includes measurement of strain, transmitted power and length at 1310nm AND 1550nm fixed wavelengths
- SPL400-3 Includes measurement of strain, transmitted power and length at programmable wavelengths in the range 1230-1630nm

All systems include an analog dual input/output feature. Each system includes a PC controller, all required cables, accessories package and software.

Options for SPL400 include:

- CD409SKW Ribbon Fiber Skew
- CD416/N N-channel integrated multiplex option package, N can be specified as any number of channels between 2 and 90
- CD461 Depolariser for improved performance with CD416
- SPL420/PC Software suite for multiplex strain and transmitted optical power measurements.
- SPL-CD Chromatic Dispersion measurement
- SPL-PMD Polarisation Mode Dispersion measurement

PE.fiberoptics reserves the right to change or amend specifications and/or configurations at any time without notice.

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