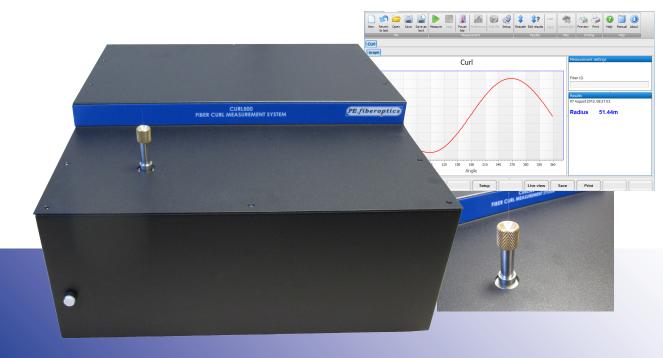
CURL500 Fiber Curl measurement system





Description

The **CURL500** Fiber Curl Measurement System is the latest addition to our 500 series product range.

The **CURL500** system uses industry standard laser scanning techniques as defined in IEC standards to provide fast and accurate characterisation of the radius of Curl for all types of optical fiber.

Features & Benefits

- Dual beam laser scanning makes measurements insensitive to mechanical and vibrational inputs.
- Real time acquisition and processing improves productivity.
- Simple sample preparation and loading with no focusing or optimisation of the sample required.
- Measurement as per IEC-60793-1-34
- 'PEcon' 500 series software running on Windows 7/8/10[™].

Overview

Quality control of fiber curl is critical in the battle to improve the inter-connectivity between Ribbon structured fibers.

The **CURL500** provides a High **R**esolution measurement that is consistent in its results, independent of the operator and is a first choice tool for the QA manager keen to stay on top in the battle to maintain a quality and cost-effective production facility.

Preliminary Specifications

CURL500 Fiber Curl measurement system

Measurement technique

Dual laser beam scanning measurement as per IEC-60793-1-34.

Operation overview

- Two parallel laser beams separated by 10mm are projected onto the outer surface of the stripped optical fiber.
- A CCD camera monitors the spacing of the two laser beams reflected from the fiber surface as it is rotated.
- Curl in the fiber will cause the distance between the laser beams to vary as the fiber rotates.
- The software applies industry standard algorithms to the acquired data to yield the radius of the Curl
- The optics are calibrated with traceability back to NPL in the UK.

Specifications

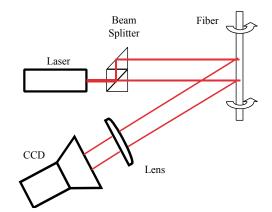
| Curl radius measurement range | |
|-------------------------------|--|
| Resolution | |
| Typical measurement time | |
| Weight | |

0.7 to 99m <0.05m @ curl of 2.5m <5 sec 12kg, plus PC

Ordering information

1. CURL500

Measurement system for Fiber Curl.



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All PE.fiberoptics,

products are designed and manufactured at our Wokingham facility in the United Kingdom.

System case and packaging may vary from images provided.

CURL500 Datasheet Issue 1.04 2017



PE.fiberoptics is certified ISO 9001 and attests to the quality of these products.

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