



CURL400 Fiber Curl System



Description

The **PE.fiberoptics** CURL400 was developed as a result of Manufacturers of optical fiber and optical fiber cable increasingly being required to provide specifications on the degree of curl in the fiber that they are either making or using.

Curl is a critical parameter, used not only in determining a fiber's suitability for use in ribbon or tape structures, but it is also an indicator of the quality of the fiber drawing process, where parameters such as polarisation mode dispersion (PMD) can be influenced by the fiber curl.

Features

- Measures the degree of curl in optical fibers
- Curl measurement range of 0.7 to 999m
- Typical measurement time less than 40 sec (including fiber preparation)
- High resolution 360 degree scanning.
- Measurement as per FOTP111

Overview

Manufacturers are striving to increase the radius of curl in the fiber, a majority being able to reach Curl > 2.5m some achieving Curl > 4 m. **PE.fiberoptics** has recognised the need for a fast and precise tool to be used in qualifying this parameter, hence the release of the "CURL400".

CURL400 Fiber Curl System

Measurement technique

The Fiber Curl measurement as per IEC 60793- 1-34, FOTP111.

The deviation is measured on 10mm of free fiber, as per the standard, using "Dual Beam Differential Laser Triangulation".

Two laser spots, accurately separated on the fiber sample by 10mm, are recorded on a linear CCD array during motorised rotation of the fiber.

This all-optical technique avoids the limitations imposed by mechanical tolerances. It does not require precise fiber cleaving or difficult fiber positioning. The fiber is held in a special mandrel with fast loading and simple fiber location.

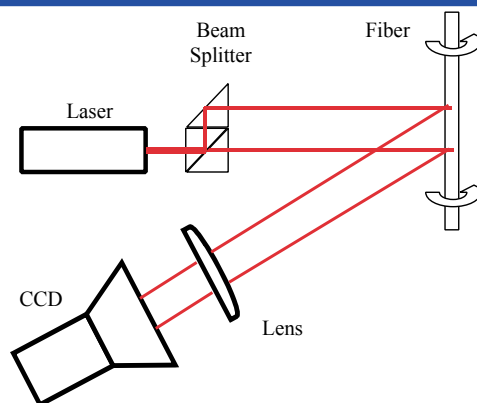
Specifications

Curl radius measurement range	0.7 to 999m
Resolution	<0.05m @ curl of 2.5m
Typical measurement time	<40 sec, including fiberprep
Weight	25kg, plus PC.
Size	47x43x20 cm

Specifications



Ordering information



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

PE.fiberoptics Limited
Sorbus House
Mulberry Business Park
Wokingham RG41 2GY
United Kingdom

Tel: +44 118 9773003
Fax: +44 118 9773493
Email: sales@pefiberoptics.com
www.pefiberoptics.com

©2005/09 **PE.fiberoptics** Ltd. All rights reserved

PE.fiberoptics