CONNECTED FIBERS
Connecting People To Quality Fiber Optic Technology

DATA SHEET

Data-Pixel Koncentrik Connector V2

Features

- Measure Ø2.5mm and 1.25mm PC-type connectors
- Ferrule end-face visual inspection at x400 magnification
- User adjustable quality level for high-speed measurements
- Easy calibration Koncentrik Software

Benefits

- Measurement data exported in standard text format
- Statistics on measurements available

Applications

- Connector concentricity
- Connector tuning

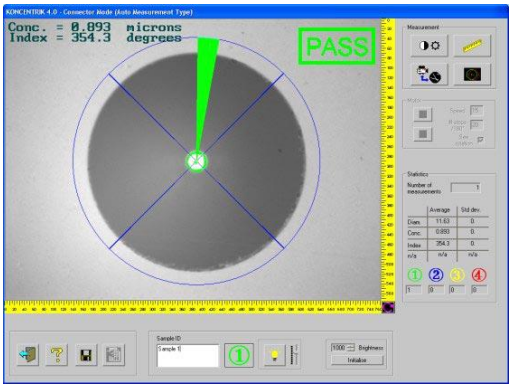
RoHS

Call now to place your order:
1-866-899-7953

High precision fiber-core to ferrule-envelope eccentricity and indexing measurements.

The new KONCENTRIK-V2 is a modular measurement system. Several mechanical modules adapt on it so that either fiber or ferrule eccentricity measurements can be performed.

The Ferrule end-face geometry characteristics are key factors to the quality of patch-cords interconnections. While interferometry measurement tools can measure some of these characteristics (Radius of polishing, Apex-offset, Fiber height, ...), they cannot measure the eccentricity of the fiber core with respect to the ferrule outer envelope. Fiber-core eccentricity can have various origins such as fiber cladding to core eccentricity, ferrule envelope to bore eccentricity and unmatched fiber diameter to ferrule bore diameter.
The result of eccentricity is a loss in optical power at interconnections and therefore a loss in performances. With this module, KONCENTRIK-V2 measures the eccentricity of the fiber core with respect to the ferrule outer envelope of a connector with a 0.15µm precision. It also measures the position of the core with respect to the connector key with a few degrees of precision. Applications Production of Reference and Master patchcords. Tuning of connectors so as to reduce the random mating insertion loss of fiber optic assemblies.



Specifications

Parameter	*Reproducibility	Range
Eccentricity measurement	±0.05µm	0 to 100µm
Indexing measurement	Up to 1°	0 to 360°
Measurement speed		10 sec + (user variable)
Wavelength (nm)		450nm
Power & Interface		12V external, USB 2.0

* 1 Sigma values.

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Ordering Guide

Part Number	Description
DPLC-01-V2	Basic Hardware System (without any measurement module) Parts included: KONCENTRIK Basic Hardware System version 2+ KONCENTRIK-V2 Software CD ROM + USB cable + 12V Power Supply
DPLC-42-125-V2	Patchcord Concentricity Measurement Clutch with variable Internal Diameter (1.25 mm)
DPLC-42-25-V2	Patchcord Concentricity Measurement Clutch with variable Internal Diameter (2.5 mm)

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