PHOTON KINETICS

FLS-M Multicore Full-Length Station

High-speed characterization of key transmission properties of multicore fiber spools

Features

Configurable Test Station for Long-Length MCFs

- FLS1 configuration performs attenuation, attenuation uniformity, spectral attenuation, point defect screening, fiber length, and mode field diameter by OTDR.
- FLS2 configurations add chromatic dispersion.
- FLS3 configurations include both chromatic and polarization mode dispersion capability.
- All FLS test stations require just one fiber preparation step for multiple measurements, which minimizes fiber handling time and maximizes test station output.

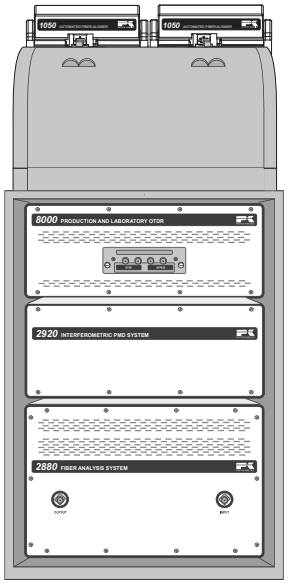
Automated Alignment

- The FLS's 1050F Aligners use both video profile alignment and OTDR methods to locate, align and couple single-core buffer fibers to each core of the multicore fiber with both low loss and reflectance.
- Automated location of waveguide-type markers.

High Performance

- Unrivaled OTDR performance enables long-length, bidirectional, multi-wavelength data acquisition in just seconds per fiber core.
- Integrated, high-speed, chromatic dispersion and polarization mode dispersion measurements in just 10 and 5 seconds, respectively.

For more information contact
sales@pkinetics.com



- OTDR
- Chromatic Dispersion
- Polarization Mode Dispersion
- Spectral Attenuation
- Mode Field Diameter
- Fiber Length

Specifications

Measurement	
Compatible Fibers	IEC Type B Single-mode (single-core and multicore designs)
Standards and Methods	
Attenuation [1]	IEC 60793-1-40, OTDR Method
Attenuation Uniformity	IEC 62316
Fiber Length	IEC 60793-1-22, OTDR Method
Mode Field Diameter	IEC 60793-1-45, OTDR Method
Chromatic Dispersion	IEC 60793-1-42, Phase Shift Method
Polarization Mode Dispersion	IEC 60793-1-48 Interferometric Method
Marker Identification Methods [2]	
Waveguide Marker	OTDR Method
Wavelengths	
OTDR (FLS1-M, FLS2-M, FLS3-M)	
• FLSX-M-10	1310, 1383, 1550 and 1625 nm
• FLSX-M-20	1310, 1383 and 1550 nm
• FLSX-M-30	1240, 1310, 1383, 1550 and 1625 nm
CD (FLS2-M and FLS3-M only)	C and L-band
PMD (FLS3-M only)	C and L-band
Performance	
Core Location and Coupling Time [3]	90 seconds
Data Acquisition Time (typical)	
OTDR [4]	15 seconds
Chromatic Dispersion [5]	10 seconds
Polarization Mode Dispersion [6]	5 seconds
Configurations	
System	
FLS1-M	8000 Production and Laboratory OTDR
FLS2-M	8000 OTDR and 2880 Chromatic Dispersion System
FLS3-M	8000 OTDR, 2880 Chromatic Dispersion System with 2920-1 Interferometric PMD System
Standard Accessories	1050-CS2 Fiber Coupling Station consisting of: 1050F Fiber Aligners (2), 2XXX-SCL Fiber Cleaver, Catenary Fiber Table, Characterized, 1500-meter IEC Type B-652 Buffer Fibers (2), 250 µm Fiber Holders (4); Station Interface w/Windows 11, PKSL Software Application

Notes:

1. *Spot and spectral attenuation plus attenuation uniformity.*
2. *Rod-type marker. For other marker types, contact factory..*
3. *Total time for all cores of a 4-core MCF.*
4. *4-wavelength,bidirectional, per core.*
5. *26 wavelengths, per core.*
6. *Per core.*

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Specifications subject to change without notice

CLASS 1
LASER PRODUCT

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