PHOTON KINETICS

FLS-H Hollow-core Full-Length Station

High-speed characterization of key transmission properties of hollow-core fiber spools

Features

Confurable Test Station for Long Fiber Lengths

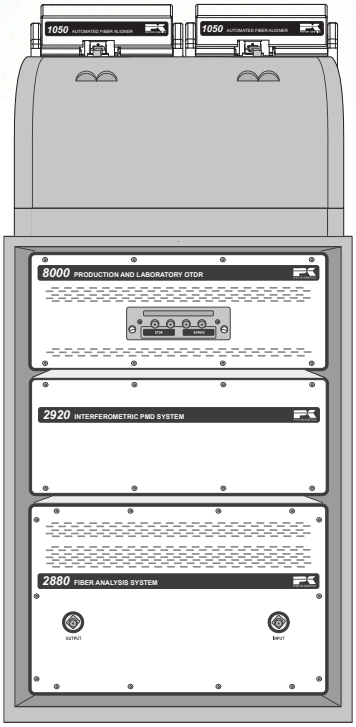
- FLS1 configuration performs attenuation, attenuation uniformity, point defect screening, and fiber length.
- FLS2 configurations add chromatic dispersion, and the FLS3 includes both chromatic and polarization mode dispersion capability.
- All FLS test stations require just one fiber preparation step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

Automated Alignment

- The FLS's 1050F Aligners use video profile alignment and OTDR methods to align and optimize coupling between a hollow-core launch-optimized buffer fiber and the HCF under test.

High Performance

- Unrivaled OTDR performance enables long-length, bidirectional, multi-wavelength data acquisition in just seconds.
- Proprietary OTDR reflection mitigation strategies reduce buffer fiber to HCF coupling dead zone.
- Integrated, high-speed, chromatic dispersion and polarization mode dispersion measurements in just 10 and 5 seconds, respectively.



- OTDR
- Chromatic Dispersion
- Polarization Mode Dispersion
- Fiber Length

For more information contact
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Specifications

Measurement	
Compatible Fibers	Hollow-core fibers (e.g., NANF, DNANF)
Standards and Methods	
Attenuation	IEC 60793-1-40, OTDR Method
Attenuation Uniformity	IEC 62316
Fiber Length	IEC 60793-1-22, OTDR Method
Chromatic Dispersion	IEC 60793-1-42, Phase Shift Method
Polarization Mode Dispersion	IEC 60793-1-48 Interferometric Method
Wavelengths	
OTDR (FLS1-H, FLS2-H, FLS3-H)	
• FLSX-H-10	1550 nm
• FLSX-H-20	1550 and 1625 nm
• FLSX-H-30	1550, 1570 and 1625 nm
CD (FLS2-H and FLS3-H only)	C and L-band
PMD (FLS3-H only)	C and L-band
Performance	
Coupling Time [1]	25 seconds
Data Acquisition Time (typical)	
OTDR [2]	6 seconds
Chromatic Dispersion [3]	10 seconds
Polarization Mode Dispersion [4]	5 seconds
Configurations	
System	
FLS1-H	8000 Production and Laboratory OTDR
FLS2-H	8000 OTDR and 2880 Chromatic Dispersion System
FLS3-H	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, 1500-meter HCF Launch-Optimized Buffer Fibers (2), 250 µm Fiber Holders (4); Station Interface w/Windows 11, PKSL Software Application

Notes:
1. *Typical. Includes automated search, cladding alignment and loss optimization.*
2. *Bi-directional, single wavelength measurement.*
3. *12 wavelengths, 1550 nm window.*
4. *C and L-band*

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ISO 9001:2015 certified. Printed in USA.
Specifications subject to change without notice

CLASS 1
LASER PRODUCT

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