PHOTON KINETICS

FLS Full-Length Station

High-speed characterization of key transmission properties of single-mode fiber spools

Features

Configurable Test Station for Long Fiber Lengths

- 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.

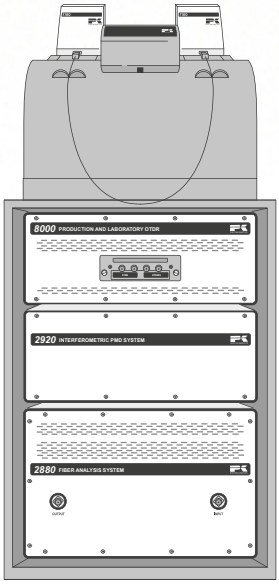
Instantaneous Fiber Coupling

- 1100 Single Fiber Aligners provide virtually instantaneous, low loss, low reflectance coupling of fibers under test to characterized buffer fibers.
- 1100s also provide the highly stable coupling losses required for Mode Field Diameter by OTDR.

High Performance

- Unrivaled OTDR performance enables long-length, bidirectional, multi-wavelength data acquisition in just seconds per fiber.
- 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)
Standards and Methods	
Attenuation [1]	IEC 60793-1-40, OTDR Method,
Attenuation Uniformity	IEC 62316, OTDR
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
Wavelengths	
OTDR (FLS1, FLS2 and FLS3)	
• FLSX-10	1310, 1383, 1550 and 1625 nm
• FLSX-20	1310, 1383 and 1550 nm
• FLSX-30	1240, 1310, 1383, 1550 and 1625 nm
CD (FLS2 and FLS3 only)	C and L-band
PMD (FLS3 only)	C and L-band
Performance	
Data Acquisition Time (typical)	
OTDR [2]	15 seconds
Chromatic Dispersion [3]	10 seconds
Polarization Mode Dispersion	5 seconds
Configurations	
System	
FLS1	8000 Production and Laboratory OTDR
FLS2	8000 OTDR and 2880 Chromatic Dispersion System
FLS3	8000 OTDR, 2880 Chromatic Dispersion System with 2920-1 Interferometric PMD System
Standard Accessories	1150-CS Fiber Coupling Station consisting of: 1100 Single Fiber Aligners (2), 1100-YCL Fiber Cleaver, Catenary Fiber Table, Characterized, 1500-meter IEC Type B-652 Buffer Fibers (2), 250 µm Fiber Holders (4); plus Station Interface w/ Windows 11, PKSL Software Application

Notes:
1. *Spot and spectral attenuation, plus attenuation uniformity.*
2. *4-wavelength, bidirectional.*
3. *26 wavelengths.*

Photon Kinetics, Inc.
9305 SW Gemini Drive Beaverton, OR 97008 USA
Tel +1 503 644 1960

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Specifications subject to change without notice

CLASS 1
LASER PRODUCT

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