

Overview

Up to 200 KM

In high performance engineering test labs, it is often a mandatory requirement to test equipment's transmission capability over distance. Using real fiber to simulate the actual field environment is the best approach to obtain equipment's benchmark performance.

w-Ignite™ Single-Mode (SM) Fiber-in-a-Box is the most reliable solution with flexible configurations. In a fully enclosed 6RU rack-mount chassis, the Fiber-in-a-Box product provides custom fiber length up to total 200 Kilometers. Available in either a 6 spool and 8 spool configurations; with each spool accommodating fiber links up to 25km length. The front termination panel can support LC, SC, FC or ST type connectors.

A user can order this product in any increment of 1km per link, and can order a customized configuration per their particular needs. However, it is recommended to consult a sales representative before an order is placed.



Features & Benefits

- 19" Reversible Mounting Bracket to Support Both Datacom and Telecom Racks
- Fully Secured 6RU Chassis with Plexi-Glass Front
- Configurable Adaptor Plate to Support LC, SC, ST and FC Connections
- Up to 200km Corning Single-Mode SMF-28e+ fiber
- 6 or 8 Spool Configurations to Support Multiple Links per Spool for High Customization
- Custom Fiber Length with 1km Increment
- Low Insertion Loss Terminations and Industry Standard Fiber Specifications

Applications

- Telecom Equipment Testing and Benchmarking
- Engineering Performance Tests and Qualifications
- Optical Transport System Simulation
- Storage Area Network (SAN) Fiber Channel Over
- Wide Area Network Benchmark Testing

Optical Specifications

- SMF-28e or Similar Type of Single Mode Bare Fibers
- Termination with LC, SC, ST, FC with UPC or APC Polish

Mechanical Specifications

- Dimensions: 17.2" x 20.3" x 10.5" or 17.2" x 29.6" x 10.5" (6RU)
- Rack Mountable: 19"

Optical Characteristics

Characteristics	Conditions	Specified Values	Units
Attenuation	1310 nm	<0.35	[dB/km]
	1550 nm	<0.20	[dB/km]
	1625 nm	<0.24	[dB/km]
Attenuation vs. Wavelength Max. ∞ difference	1285-1330 nm	<0.03	[dB/km]
	1525-1575 nm	<0.02	[dB/km]
Dispersion coefficient	1550 nm	<18	[ps/(nm-km)]
	1625 nm	<22	[ps/(nm-km)]
Zero dispersion wavelength		1312 ±12	[nm]
Zero dispersion slope	-	<0.091	[ps/(nm ² -km)]
PMD Maximum Individual Fibre	-	<0.2	[ps/√km]
PMD Link Design Value (M=20, Q=0/01%)	-	<0.1	[ps/√km]
PMD Typical Value	-	0.04	[ps/√km]
Cable cutoff wavelength λ _∞		<1260	[nm]
Mode field diameter (MFD)	1310 nm	9.2±0.4	[μm]
	1550 nm	10.4±0.5	[μm]

Standards Compliance

- Telcorida GR-326-CORE
- TIA/EIA-568B-B.3 Fiber Optic Cabling Components Standard
- IEEE802.3z Standards for Fiber Optic Cabling
- RoHS Approved for European Market Requirements



Product Selection

Part Number: 68AB-30EF-XXKM			
AB	E (Spools)	F	XX
31 (LC)	2	1 (UPC)	Length (Kilometers)
33 (SC)	4	2 (APC)	
34 (FC)	6		
40 (ST)	8		

8 x 25Km Duplex SMF Fiber Spools Configuration

