Fiber Distance Simulator

by LYNN







Bench mark testing of WAN, SAN, or Telecom Systems Engineering performance testing System Simulation for Optical Transport



Features

- · 19" Reversible Mounting Bracket to Support Both Datacom and Telcom Racks
- · 6RU Chassis with Plexi-Glass Front
- · Supports up to 225km using (9) 25km reels

Applications

- ·Telecommunications · Local Area Networks ·Testing laboratories
- · Fiber to the Home · Video Transmission · Fiber Optic Sensing
- ·Test Instruments · CATV

Specifications

- ·Terminations Types: LC, SC, FC, ST
- · Polish Types: UPC, APC, and PC
- · Fiber Types: Singlmode SMF28e, SMF28e XB, and other options available
- \cdot Passive: no active components
- · Low Insertion Loss Terminations and Industry Standard Fiber Specifications
- Material: Cabinet is Aluminum, Brackets Steel
- · Dimensions: Standard 6U height x 19" W x 30.35" D
- \cdot Dual supporting rail brackets
- · Custom plates with distance engraved

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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]	<0.35 <0.20 <0.24	[dB/km] [dB/km] [dB/km]
Attenuation vs. Wavelength Max. ∞ difference	1550 nm <0.20 [dB/km] 1625 nm <0.24 [dB/km]	<0.03 <0.02	[dB/km] [dB/km]
Dispersion Coeffcient	1550 nm 1625 nm	<18 <22	[ps/(nmkm)] [ps/(nmkm)]
Zero dispersion wavelength		1312 ±12	[nm]
Zero dispersion slope		<0.091	[ps/(nmkm)]
PMD Maximum Individual Fiber		<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 ∞		<1260	[nm]
Mode field diameter (MFD)	1310 nm 1550 nm	9.2±0.4 10.4±0.5	[μm] [μm]

Standards Compliance

- ·Telcordia 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 Requirement 🖉

Ordering information

FDS-SM-XXX-XXX-6U (call for specific part # details)

ENVIRONMENTAL CHARACTERISTICS

CHARACTERISTICS	CONDITIONS	SPECIFIED VALUES	UNITS	
Temperature dependence Induced attenuation at	-60°C to +85°C	<0.05	[dB/km]	
Temperature-humidity cycling	-10°C to +85°C, 98% RH	<0.05	[dB/km]	
Watersoak dependence Induced attenuation at	23°C, for 30 days	<0.05	[dB/km]	
Damp heat dependence Induced attenuation at	85 °C and 85% RH, for 30 days	<0.05	[dB/km]	
Dry heat aging at	85°C	<0.05	[dB/km]	
MACRO-BEND INDUCED ATTENUATION				
1 turn around a mandrel of 32 mm diameter	1550 nm	<0.05	[dB]	
100 turns around a mandrel of 50 mm diameter	1310 nm & 1550 nm	<0.05	[dB]	
100 turns around a mandrel of 60 mm diameter	1625 nm	<0.05	[dB]	



