

model Fiber 100

Specifications



Measurements

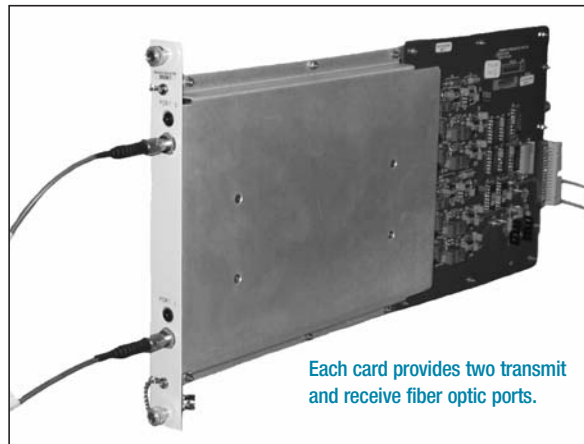
- Fiber Diameter:
 - 50/125 micron multi mode
 - 62/125 micron multi mode
 - 100/140 micron multi mode
 - 9/125 micron single mode
 - Other diameters and single mode available on request
- Wavelength:
 - 850 nm multi-mode
 - 1310, 1550 nm single mode
 - others per request
- Light Source: LED
- Launch Condition:
 - AS100
 - J5610
 - or your specification
- Measurement Range: 0 - 30 dB
- Accuracy: ± 0.5 dB plus connector variation
- Resolution: 0.01 dB
- Repeatability: 0.15 dB

Operating Conditions

- Relative Humidity: 30% - 80% (RH non-condensing)
- Temperature: 45 to 95 °F (7.5 to 35.0 °C)
- Power Options Available:
 - 115 VAC 50 – 60 Hz.
 - 230 VACS 50 – 60 Hz.

Test Configurations

- Eight (8) Port Module:
 - Width 10.0" (25.4 cm), height 12.0" (31.7 cm), depth 22.25" (56.5 cm)
- Twenty-four (24) Port Module:
 - Width 17.4" (44.1 cm), height 12.0" (31.7 cm), depth 22.25" (56.5 cm)



Each card provides two transmit and receive fiber optic ports.

- Standard Interface: ST Connector
- Optional interface:
 - MIL-38999
 - or your specification

Standard Software

- TestLink® software includes:
 - TestEdit® – Text Editor for test programs and address correspondence
 - TestExecutive® – with self-programming and Write Error Program (WEP)
 - Syntax Checker
- Requires host computer with RJ45 network port (TCP/IP)

Software Options

- Checksum

For more information

For the name of your representative or more information on:

- Technical specifications
- Pricing
- Services
- Other products
- Authorized sales and service agents

Please contact:

(800) 821-3487

DIT-MCO International
5612 Brighton Terrace
Kansas City, MO 64130-4530
Tel (816) 444-9700
Fax (816) 444-9737
Email infolink@ditmco.com
URL www.ditmco.com

In Europe:

Tel (44) 1482 662355
Fax (44) 1482 662356

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Automated Attenuation Loss Test

Designed for manufacturing environments, the Fiber 100 insertion loss test set utilizes simple programming and provides clearly understood results. You do not need to be a fiber expert to determine the insertion losses in your assemblies.

- An insertion loss test solution designed to your fiber specifications including:
 - Multi-mode 50/125, 62/125 and 100/140 micron fibers
 - Single mode 9/125 micron fiber
- Multiple transmit / receive ports to connect to all fibers simultaneously
- Simple operation requiring minimal training
- Fast and accurate results with digitized measurements that can be easily archived
- Expansion with multiple chassis to provide a port for every fiber termination in your assembly

Fiber cable suffers from handling which would not damage convention harnesses. Kinks may create losses or break the fiber. Connector backshells may create pinch points. Detection of these potential faults requires testing of the assembly to guarantee that your harness performs to specifications.

The Fiber 100 can integrate with tradition test systems to provide testing for electrical and optical connections. Standard cabinets provide storage for calibration tools and interfaces to the unit under test.



The Fiber 100 provides up to eight channels in a portable configuration or up to 24 in the full sized configuration.

Reliable Solid State Design

Each optic channel includes an LED source and power measurement capability eliminating any optical switching. By relying on solid-state components only, the system is less susceptible to vibration, dirt, humidity and temperature changes.

When a loss is measured between two ports, the source LED is activated and the source power measured. Then the received power is measured through the tested link and the power loss is calculated and reported as a measurement. If the measured loss is greater than the defined loss limit, a failure report documents the fault. The control software even lets you specify a tare value to compensate for losses in adapters to your tested assembly.

The launch condition specifies the condition of the light as it enters the fiber cable. The launch condition either fully fills the aperture of the fiber or the light is concentrated in the center of the fiber. DIT-MCO matches the system to your launch requirement whether it is AS-100, J5619 or something else.

Automatic Test Control

The DIT-MCO TestExecutive™ provides a robust test program and control environment. All insertion loss measurements execute in any random order as defined by an ASCII test program. The operator simply selects the test program and TestExecutive follows the test sequence.

The results can be displayed at the operator's screen, on a printer, or saved to disk for future reference. You can assign a text string of up to 64 characters to identify each optical port so that you know the exact location of the test in your terminology.



DIT-MCO® International

5612 BRIGHTON TERRACE • KANSAS CITY, MO 64130-4530

(800) 821-3487 • (816) 444-9700 • Fax (816) 444-9737 • Email infolink@ditmco.com • www.ditmco.com

