NETWORK TESTING

VARIABLE ATTENUATOR

FVA-60B





Lab and Field Versatility

This portable variable attenuator performs just as well in a laboratory environment as it does in the field. Superior specifications make it the variable attenuator of choice for a number of applications. For lab or fieldwork flexibility, choose the FVA-60B.

Total Flexibility

Three attenuation display modes:

- Absolute (including insertion loss)
- Relative (in reference to 0.00 dB level)
- x + b (arbitrary value)

Program mode: Cycles through a repeatable sequence of up to 60 attenuation steps, pausing for one second or up to 60 hours at a time. The Program mode is particularly suited to accelerated bit-error-rate (BER) testing.

Fourteen available wavelengths: Matches your source wavelength to the nearest 10 nm for unbeatable accuracy.

Variable scanning speed: Scans the complete attenuation range at four different speeds according to the selected step size (0.05, 0.20 or 1.00 dB/step and variable step size).

Remote Control Capability

Operate the FVA-60B remotely from your PC using the standard RS-232 interface and control codes. Program software solutions are adapted to your testing needs.

Three-Way Powering Goes a Long Way

The FVA-60B features three complementary power sources for extended operation: a rechargeable NiCd battery, a 9 V alkaline backup battery and an AC adapter/charger for continuous operation.

KEY FEATURES

- Accurate system loss simulation
- Return loss of > 40 dB
- RS-232 computer interface for custom applications

Exceptional Specifications

High-quality optical components make the FVA-60B Variable Attenuator the standard for performance and flexibility. EXFO's computer-assisted calibration techniques deliver remarkable specifications:

- ± 0.15 dB linearity from 2.5 dB to 65 dB
- 0.05 dB resolution
- ± 0.10 dB repeatability

Multiple Applications

The FVA-60B enables consistent operation in various manual or automated testing situations.

- BER testing
- System testing and acceptance
- Power meter calibration and verification
- Optical margin analysis
- System loss simulation
- Field, manufacturing and R&D applications

SPECIFICATIONS¹

Model		FVA-60B-B-XX	FVA-60B-C-XX	FVA-60B-D-XX	FVA-60B-E-XX
Fiber type (µm)		9/125	50/125	62.5/125	100/140
Calibration wavelengths (nm)		1310/1550	1300	1300	1300
Attenuation maximum (dB)	70	65	65	65
Insertion loss ^{2,3} (dB)	typical	2.5	2.5	2.5	2.5
	maximum	3.5	4.0	4.0	4.0
Resolution (dB)		0.05	0.05	0.05	0.05
Linearity ⁴ (dB)		± 0.15	± 0.15	± 0.15	± 0.15
Repeatability (dB)	typical	± 0.03	± 0.03	± 0.03	± 0.03
	maximum	± 0.10	± 0.10	± 0.10	± 0.10
Return loss ² (dB)	typical	45	27	27	27
	minimum	40	20	20	20

GENERAL SPECIFICATIONS

Size		22 cm x 11 cm x 5 cm	(8 ³ / ₄ in x 4 ¹ / ₂ in x 2 in)	
Weight	unit	0.75 kg	(1 ¹ / ₂ lb)	
	shipping	2.5 kg	(5 ¹ / ₂ lb)	
Temperature	operating	-10 °C to 50 °C	(14 °F to 122 °F)	
	storage	-30 °C to 70 °C	(–22 °F to 158 °F)	
Relative humidity 0 % to 95 % non-condensing		0 % to 95 % non-condensi	ing	
Power		AC charger (continuous operation), NiMH (5 to 25 hours depending on usage),		
		9 V alkaline batteries (3 to 10 extra hours depending on usage)		
Speed	0 to 70 dB in 10 seconds at maximum scan rate			

NOTES

1. At 23 °C ± 2 °C unless otherwise specified.

At 1310 nm and 1550 nm for singlemode fiber; at 850 nm and 1300 nm for multimode fiber. The insertion loss is dependent on the input numerical aperture. 3. With FC/UPC connectors for singlemode fiber and FC/PC for multimode fiber.

4. At a calibrated wavelength, using a non-polarized light source with 0.002 dB stability (source accuracy of \pm 0.5 nm) and up to 50 dB of attenuation.

14 wavelengths available, of which two can be picked for quick toggling.

Multimode (nm)	820, 830, 840, 850, 860, 870, 880, 1270, 1280, 1290, 1300, 1310, 1320, 1330
Singlemode (nm)	1280, 1290, 1300, 1310, 1320, 1330, 1340, 1520, 1530, 1540, 1550, 1560, 1570, 1580

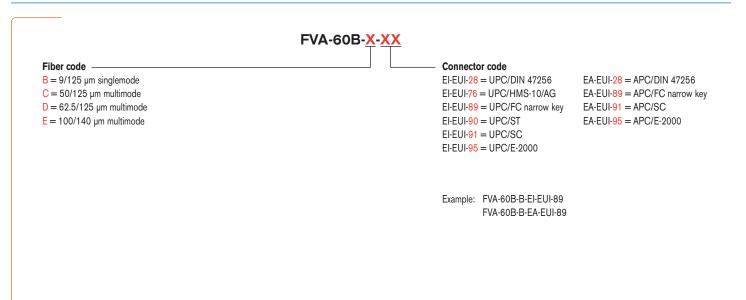
STANDARD ACCESSORIES

User guide, carrying case, protective holster, shoulder strap, RS-232 serial interface (comes with cable and application software), AC adapter/charger, 9 V alkaline battery, Certificate of Compliance

BELLCORE PRODUCT CODES

Model CPR# ECI# CLEI#
FVA-60B 574669 661071 LGTDJ20AAA

ORDERING INFORMATION





Corporate Headquarters > 400 Godin Avenue, Vanier (Quebec) G1M 2K2 CANADA | Tel.: 1 418 683-0211 | Fax: 1 418 683-2170 | info@exfo.com

		Toll-free: 1 800 663-3936 (USA and Canada) www.exfo.com			
EXFO America	4275 Kellway Circle, Suite 122	Addison, TX 75001 USA	Tel.: 1 800 663-3936	Fax: 1 972 836-0164	
EXFO Europe	Le Dynasteur, 10/12 rue Andras Beck	92366 Meudon la Forêt Cedex FRANCE	Tel.: +33.1.40.83.85.85	Fax: +33.1.40.83.04.42	
EXFO Asia-Pacific	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Tel.: +65 6333 8241	Fax: +65 6333 8242	
EXFO China	Beijing New Century Hotel Office Tower, Room 1754-1755 No. 6 Southern Capital Gym Road	Beijing 100044 P. R. CHINA	Tel.: +86 (10) 6849 2738	Fax: +86 (10) 6849 2662	

EXF0 is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXF0 has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. **Contact EXF0 for prices and availability or to obtain the phone number of your local EXF0 distributor.** For the most recent version of this spec sheet, please go to the EXF0 website at http://www.exfo.com/specs In case of discrepancy, the Web version takes precedence over any printed literature.



Printed in Canada 04/12