FLS-230A

NETWORK TESTING–OPTICAL

- Bright and powerful red laser at 650 nm
- Optimized visibility for short and long range (up to 5 km)
- –0.5 dBm power output
- Continuous and pulsed operation
- Three-way powering with automatic shut-off function
- Modulation mode: 1 Hz and 50 % duty cycle
- Universal 2.5 mm connector

Highly visual fault location

The FLS-230A helps you visually pinpoint the location of breaks, faulty splices, or connectors within CO splice trays and patch panels. The bright red glow of the FLS-230A indicates where attenuation is reducing your system's performance. Its highly visible laser signal warns you in the event of abnormal losses.

On-the-spot applications

- Locates breaks, pinches, or tight bends, even through light-colored fiber jackets
- Troubleshoots faults within OTDR dead zones
- Accelerates end-to-end fiber identification

Maximum visibility at short and long ranges

Since it uses a 650 nm laser source, the FLS-230A offers optimal performance, both at short and long ranges. It appears three times brighter than conventional 670 nm fault locators at the launch point, and provides long-distance range for end-to-end identification. In bright ambient light, the flashing mode increases the visibility of the red signal.

Durability and portability

You can take the FLS-230A anywhere. It is designed to withstand demanding field conditions in a number of environments. A shock-absorbent protective holster provides a convenient tilt stand and a shoulder strap. The tough polycarbonate casing protects the fault locator in case of accidental drops, and the sealed keypad resists splashes and harsh weather.

Three-way powering goes a long way

The FLS-230A relies on three complementary power sources for extended operation. When the rechargeable NiCd battery runs low, the unit automatically switches to the 9 V alkaline battery backup. An AC adapter/charger is also supplied for continuous operation.

SPECIFICATIONS [a]

Model		
Operation mode		CW
Power output [b]		
high (dBm) (typical)		–0.4
Emission wavelength (red) (nm)		650 ± 10
Range (km) (typical)		Up to 5

GENERAL SPECIFICATIONS

Size (H x W x D)	22.7 cm x 12 cm x 6 cm	(8 7/8 in x 4 3/4 in x 2 1/4 in)
Weight		
unit	0.75 kg	(1 1/2 lb)
shipping	2.5 kg	(5 1/2 lb)
Temperature		
operating	–10 °C to 40 °C	(14 °F to 104 °F)
storage	–30 °C to 60 °C	(–22 °F to 140 °F)
Power	Built-in NiCd batteries 20 hours (CW) or 27 hours (1 Hz), 14 hours recharging; 9 V alkaline batteries, 7 extra hours; AC adapter/charger for continuous use.	

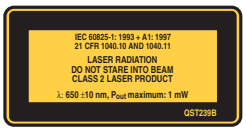
STANDARD ACCESSORIES

User guide, AC adapter/charger, built-in NiCd batteries, 9 V alkaline batteries, carrying case, protective holster, shoulder strap and Certificate of Compliance.

NOTES

a. At room temperature.

b. Measured at output of instrument, using a multimode fiber (62.5/125 mm).



ORDERING INFORMATION

FLS-230A-XX

Model ■

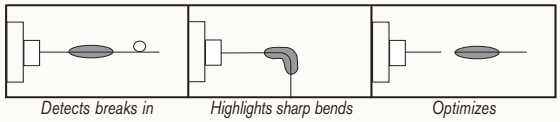
Connector ■
U25 = Universal 2.5 mm

Example: FLS-230A-U25

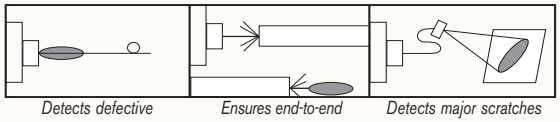
BELLCORE PRODUCT CODE

Model	CPR#	ECI#	CLEI#
FLS-230A	674408	682325	LGTE92C3AA

SIX WAYS TO USE A VISUAL FAULT LOCATOR



Detects breaks in OTDR dead zone. | *Highlights sharp bends where losses occur.* | *Optimizes mechanical/fusion splices.*



Detects defective connectors. | *Ensures end-to-end fiber identification in multifiber cables.* | *Detects major scratches on connector surfaces.*

PRODUCT SELECTION GUIDE

Choosing the right wavelength for your applications is important. The 635 nm and 650 nm (wavelength options) have different properties. Each wavelength has its own merits and should be selected in light of its intended purpose.

Model Number	Wavelength/Features	Applications	Selection Criteria	Comments
FLS-240 (Ask for a separate data sheet)	635 nm • Excellent visibility • Highest attenuation • Universal 2.5 mm or 1.25 mm connector	• Short distances • Fault location at, or near the launch point • OTDR front-end dead zone	• Appears approximately six times brighter than 670 nm at launch point • Light intensity will decrease more rapidly along the fiber	• Has the brightest appearance • Best short-range visibility/price ratio
FLS-230A (Ask for a separate data sheet)	650 nm • Very good visibility • Moderate attenuation	• All applications • Both short and long ranges	• Optimized for high visibility and distance range	• Best overall performance • Provides the most flexibility

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