PCS-100 Polyimide Coating Stripper

Polyimide coated optical fiber are now widely used in the oil and gas and medical industries. The polyimide coating has superior heat and chemical resistance to conventional UV curable coating material, but the coating requires additional care to remove. Dangerous chemical stripping using hot sulfuric acid or burning the coating off are common methods to strip the fiber due to the thin coating and strong coating adhesion to the fiber cladding. AFL's PCS-100 Polyimide Fiber Coating Stripper is the first tool that uses a mechanical stripping method, providing a safe, consistent and quick stripping solution.

Features

- **Quick stripping** – A razorblade is applied to the fiber with specific tension and the coating is precisely planed along the fiber automatically. The process requires less time than the conventional methods of acid or heat. For a 125 µm fiber, 4 stripping passes at 90° rotational positions are typically required, and complete stripping is accomplished within 25 seconds. Larger fiber sizes require more stripping passes (at smaller rotational angle increments).
- **Safe, high quality stripping** – Because hot acid is not used, the operation is much safer. In addition, the fiber quality degradation is kept at a minimum as the glass surface is not damaged by oxidization of the coating during burning or arcing.
- **Flexible** – Many parameters, such as the razor blade position and stroke, and fiber rotation angle are all adjustable for various fiber sizes and coating materials.

Specifications

STRIPPING PERFORMANCE	
Applicable Fiber	Silica based Single-mode and Multimode glass fiber
Fiber Count	Single
Applicable Coating	Polyimide coating and UV curable resin coating
Cladding Diameter Range	60 to 1200 µm
Coating Diameter Range	60 to 1,500 µm
Fiber Clamping	Adaptable to range of fiber/coating sizes by selection of applicable pair of FH-100-XXX series fiber holders
Strip Length	1 to 35 mm (Window stripping: 1 to 33 mm)
Stripping Time	4 stripping passes: 20 seconds
	8 stripping passes: 35 seconds
	12 stripping passes: 50 seconds
Blade Life	350 fibers / blade (In the case of 4 strips per fiber)
Stripping Modes	30 user-programmable modes
Proof Modes	30 user-programmable modes
PROOF TEST FUNCTION	
Maximum Proof Test Force	2 kgf
Typical Proof Test Cycle Time	3 seconds
DIMENSIONAL DATA	
Dimensions	230 mm (W) x 214 mm (D) x 151 mm (H)
Weight	5.0 kg excluding AC adapter
POWER SOURCE	
Power Input	AC100 to 240 V (50 Hz to 60 Hz)
OPERATION AND STORAGE CONDITIONS	
Operating Conditions	Temperature: 0 to 40°C, Humidity: 0 to 95% RH (Non-condensing)
Storage Conditions	Temperature: -40 to 80°C, Humidity: 0 to 95% RH (Non-condensing)

Ordering Information

DESCRIPTION	AFL NO.
PCS-100 Polyimide Coating Stripper Includes: FH-100-150, ADC-15 AC Adapter, ACC-02, Instruction manual and PCB-01 replacement blades	S014973

Accessories

DESCRIPTION	AFL NO.
FH-100-150	S014861
ADC-15	S014826
ACC-02	S001171
PCB-01 (Box of 50)	S015018