

New Optical Fiber Cleaver S326

1. INTRODUCTION

When providing on-site connection for customers of Fiber To The Home (FTTH), of Local Area Network (LAN) and of others, a user friendly and high reliability optical fiber cleaver is required. Therefore, we have developed a more advanced optical fiber cleaver, the S326 (Figure 1) which is user friendly in handling while keeping the same operability of the conventional optical fiber cleaver S325 which has earned a good reputation.



Figure 1 Appearance of the S326.

2. FEATURES

2.1 Appearance

The shape is designed to fit comfortably in the palm of the hand. In the various working environments which are considered at splicing, it is possible to do cleaving operation holding the cleaver in the hand as well as to do cleaving operation with short excess length of the optical fiber since the body of the cleaver can be inserted in the closures.

2.2 Impact Resistance

In the conventional optical fiber cleaver, the precision parts which cleave the optical fibers are covered by Aluminum Die Cast (ADC) alloy parts. Therefore, external impacts can easily reach to the precision parts through the ADC alloy parts and can cause the deformation of the precision parts. Therefore, we collect the precision parts which cleaves optical fiber in the center of the cleaver and cover their surroundings by resin parts. External impacts are absorbed or dispersed by the deformed resin parts

and making the precision parts hard to reach, therefore the impact resistance is improved.

2.3 Portability

Since it is small and light in weight, it can be easily brought to various connecting work sites. As shown in Figure 2, a strap can be attached to the body and can prevent it from dropping by wearing the strap around the wrist when it is used. It is also possible to wear it around the neck by a choker chain.



Figure 2 High portability (suspended by strap).

2.4 Small and Light Weight

Figure 3 shows the new product and the conventional one. The body weight of the new product is reduced to approx. 250 g and we achieved a light weight of 30% reduction from the conventional optical fiber cleaver (ratio to our previous model S325).



Figure 3 Small body (S326 and S325).

2.5 Operability

It is more advanced in user friendliness in handling with at the same operability of the conventional optical fiber cleaver S325 which has earned a good reputation. In addition to a series of operations such as “cleaving of the optical fiber”, “collecting of the optical fiber waste” and “resetting” in one finger operation, a lid of the body pops up by a newly mounted cylinder and makes it possible to open with a small force when it is reset. Also, it is possible to set and take off the optical fiber to/from it without a lot of care to the tip of the optical fiber because the opening angle of the lid of the body is wide at approx. 110° and a large space is maintained in the optical fiber setting position (Figure 4).

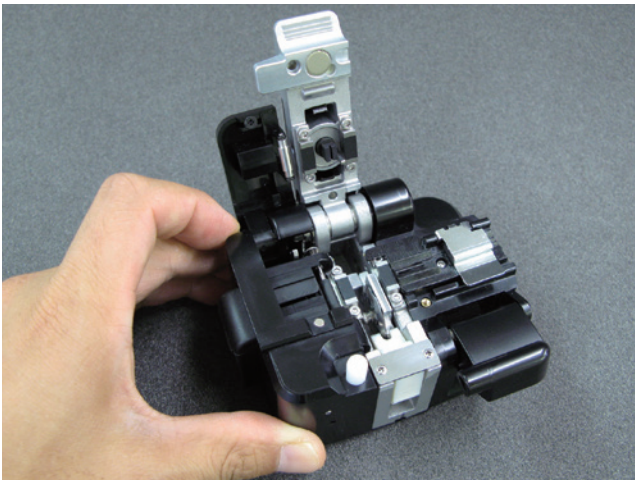


Figure 4 Wide opening angle of the lid of the body. Easy operation.

2.6 Maintenance

When the blade is worn, a good fiber cleaving is recovered with the rotation of the blade (Figure 5).

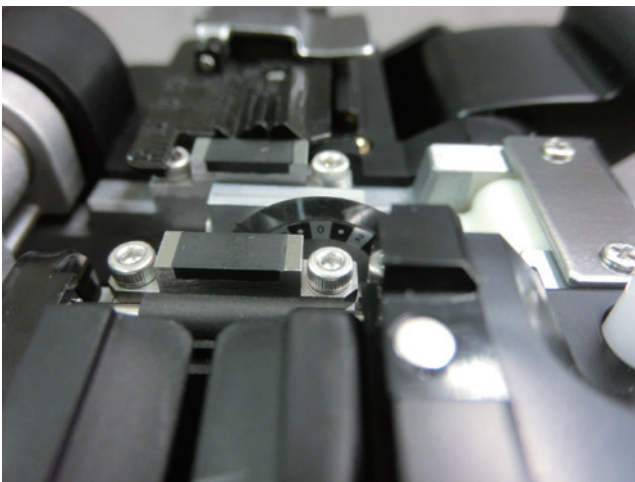


Figure 5 Easy to move cleaving position with rotation of the blade. Rotation of blade.

2.7 Options

It is acceptable not only for cleaving with an adaptor provided for a single fiber but also for cleaving of various fiber holder systems such as for fusion splicer or for mechanical splice.

3. SPECIFICATIONS OF THE PRODUCT

It can cleave optical fibers in predefined sizes with high precision. To obtain the stable cleaving quality, rubber clamps arranged one above the other are stuck to each other by a magnetic force and securely hold the optical fiber.

The specifications of the S326 are shown in Table 1.

Table 1 Specifications of S326.

Items	Specifications
Adaptive fiber types	SM, MM, DSF, NZD and others
Optical fiber count	Single Ribbon fiber (2 to 12-fibers)
Optical coating diameter	Single fiber: 0.25 to 0.90 mm Ribbon fiber : 0.30 to 0.40 mm x 0.25 pitch
Blade life	48,000 fibers
Optical fiber cleaving length	Single fiber, Variable length : 5 to 20 mm Single fiber, Fixed length : 10 mm & 16 mm Ribbon fiber: 10 mm
Dimensions (at top size)	96W x 79D x 56H mm
Weight	250 g (including the fiber waste box)

For more information, please contact:
 Access Network Department, FITEL Products Division
 CS2 Group
 Furukawa Electric Co., Ltd.
 Tel: +81-436-42-1657 Fax: +81-436-42-1786