

**CONNECTORS, PATCH
CORDS AND OTHERS**



BY FIBER SYSTEM

PRODUCT MANUAL

FIBER CLEAVER

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Product Overview

A fiber optic cleaver is a piece of tool or equipment to make an almost perfect fiber end face cut. Just like using a diamond scribe tool when cutting glass, a fiber cleaver's cutting wheel (blade) makes a very tiny cut on the fiber first, then the fiber is pressed against the little cut to force it to break at 90° angle and expose a mirror like fiber end face.

Optical fiber needs to be cleaved for fusion splicing. Optical fiber fusion splicing nearly always requires that the fiber tips exhibit a smooth end face that is perpendicular to the fiber axis.

This sufficiently perpendicular and planar fiber end face can be achieved via the fiber cleaving process. In this cleaving process, the brittle glass fiber is fractured in a controlled manner.

Polishing a fiber tip can result in even higher quality fiber end faces, but polishing requires more expensive equipment and more processing time, so it is very rarely employed for fusion splicing.

An optical fiber is cleaved by applying a sufficient high tensile stress in the vicinity of a sufficiently large surface crack, which then rapidly expands across the fiber cross section at the sonic velocity.

This idea has many different practical implementations in a variety of commercial cleaving equipment. Some cleavers apply a tensile stress to the fiber while scratching the fiber's surface with a very hard scribing tool, usually a diamond edge.

Main Characteristics



- Provides approximately 36,000 cleaves
- Compact body & light weight
- High Precision Cleaves
- 250um Coated or 900um Buffer fiber
- Singlemode or Multimode Use
- 12 Position Rotatable and Replicable Blade

Technical Specifications

Applicable fibers:	Single mode or Multimode Use
Fiber Diameter:	125um
Coating Diameter:	250um ~ 900um
Typical Cleave Angle:	0.5 Degrees
Cleave Length:	9 - 16mm (Single Fiber - 0.25mm Coating), 10 - 16mm (Single Fiber - 0.9mm Coating), Single Core (ϕ 0.25 & 0.9mm) – 12-core Ribbon Fiber – 2.5 Covered Wire
Blade Life Time:	36,000 cleaves (3,000 per blade position)
Cutting Length for Optical Fiber:	18mm
Cleaver Dimensions:	71.3(W) x 67.2(D) x 51(H) mm
Weight:	230g



CONTACTOS


 @szfibersystemcoltd

 @szfibersystemcoltd


 <http://szfibersystem.com/>

 sale@szfibersystem.com

Matriz (China):
Sala 201, Bloque A, Edificio Digital Garden City, 1079 Nanhai Avenue, Distrito Nanshan, Shenzhen, China

 +8618927463845
+8613714906306

Sucursal Ecuador:
Urbanización 6 de Diciembre, Pasaje San Blas OE6-49 y Princesa Toa, Quito, Ecuador

 +593984510113
+593983373961

Sucursal Perú:
Calle Huaman Poma de Ayala 349 y Av. Los Patriotas entre la quinta y sexta frente al parque Virgen de Guadalupe, San Miguel, Lima Perú.

 Fijo: +5115005857
Móvil : +51973644663