



Manufacturer:
Phenix Fiber Optics

Product Name:
Phenix fibersect.single™, Mechanical Connector Cleaver for Single Fiber Connectors

Manufacturer Part Number:
PNX-FS-SGL

▶ [Click here for more details on the Phenix fibersect.single™, Mechanical Connector Cleaver for Single Fiber Connectors](#)

PHENIX FIBER OPTICS

Overview

The fibersect.single™ quickly cuts off the epoxy and fibers protruding from the face of connector ferrules during the installation process. In less than a second, it produces a flat cut close to the ferrule face, creating the ideal surface for polishing. Throughput is improved by eliminating manual steps such as hand cleaving, de-nubbing and epoxy removal. The fibersect.single is optimized for cutting Simplex and Duplex epoxied connector ferrules. With a simple one button operation, small footprint, and battery power, the fibersect.single provides exceptional versatility, portability, and ease of use in the production environment.

fibersect.single™ Epoxy Fiber Cutter



Inserting the LC connector



2.5mm SC ferrule, 75 µm cut

Features and Benefits

- Optimized for cutting Simplex and Duplex connector ferrules, such as the LC, LC-APC, LC-Duplex, SC, SC-APC, SMA and many others
- Simple one button operation; requires minimal operator training
- Fast cutting cycle
- Long saw lifetime
- Small footprint, lightweight, portable, battery powered
- Fast, easy cut length adjustment
- Quick adapter change
- Safely collects cutting waste
- Options: Connector and ferrule adapters, vacuum waste collection, footswitch cut actuator, cut counter

Specifications

- Recommended adapters: LC, LC-APC, LC-Duplex, SC, SC-APC, ST, FC, FC-APC, MDC, MDC-J, and SMA connectors with fiber diameter of <300 µm. Bare ferrule adapters are also available.
- Custom adapters are available
- Cut cycle time: ~1 sec
- Recommended cut length from ferrule face: 75 µm
- Adjustable cut length from ferrule face: 0-600 µm; 5 µm adjusting resolution
- Maximum fiber protrusion from ferrule face before cutting: 10 mm
- Cut angle: <+/- 0.5°
- Adapter changeover time: <30 sec
- Warranty: One year
- Expected saw lifetime: > 700,000 cuts when cutting LC or SC ferrules
- Power: 100-240 Vac, 50-60 Hz, 0.48 A; with rechargeable battery
- Battery capacity: >500 cuts when cutting LC or SC ferrules
- Dimensions: W x D x H / 3.75 x 5.25 x 3.50 in / 95 x 133 x 89 mm
- Weight: 2 lbs / 0.9 kg

Contact the professionals at Fiber Optic Center for a quote or to get more details.

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Product specifications and data are subject to change without notice. FOC last update 2/15/2026.



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Product Comparison
fibersect.multi.2 & fibersect.single

The Phenix Fiber Optics fibersects are designed to cut all epoxied ferrules and connectors, including the LC and SC using 125 µm fibers, the 4-72 fiber MT ferrules and SMA connectors with fibers up to 4000 µm in diameter. To achieve the best results with a fast cutting time and maximum saw lifetime, two distinct fibersects are now available: the fibersect.multi.2 and the fibersect.single. They both share a new cutting configuration that provides the smoothest cut possible, permitting a closer cut to the ferrule face and producing the ideal surface for polishing. The fibersect.single contains a finer saw, optimized for cutting smaller diameter epoxied fibers, while the fibersect.multi.2 uses a coarser saw best suited for cutting 4-72 fiber MT ferrules and large diameter SMA fibers. Shown below is a side-by-side comparison.



Specifications	fibersect.multi.2	fibersect.single
Cut Cycle Time	< 2 seconds for 12-fiber MT ferrules	< 3 second for LC or SC ferrules
Recommended Adapters	MT, MT-APC, SMA with 300-4000 µm fibers; custom adapters are available	LC, LC-APC, LC-D, SC, SC-APC, ST, FC, FC-APC, MDC, MDC-J, SMA with < 300 µm fibers, and others; custom adapters are available
Adapter Changeover	< 30 seconds	
Options	Connector and Ferrule Adapters, Vacuum Dust Collector, Foot Switch, Cut Counter, Adjustable Stand, Folding Stand	
Maximum Fiber Protrusion	7 mm from face of ferrule before cutting	
Cut Length	Adjustable, 0 - 600 µm from the face of ferrule; 5 µm adjusting resolution	
Recommended Cut Length	100 µm for MT and MT-APC; 150 µm for SMA with > 300 µm fiber diameter	75 µm for LC and SC ferrules; 100 µm for SMA with < 300 µm fiber diameter
Cut Angle	+/- 0.5°	
Warranty	One year	
Expected Saw Lifetime	> 600,000 cuts when cutting 12-fiber MT ferrules	> 700,000 cuts when cutting LC or SC ferrules
Power Supply	110-240 Vac, 50-60 Hz, 0.48 A, with rechargeable battery	
Battery Capacity	> 400 cuts when cutting 12-fiber MT ferrules	> 500 cuts when cutting LC or SC ferrules
Dimensions (W x D x H)	4.25 x 5.75 x 3.17 in / 108 x 146 x 80 mm	
Weight	2 lbs, 0.9 kg	

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