



Manufacturer:
Phenix Fiber Optics

Product Name:
Phenix fibersect.multi.2™, Mechanical Connector Cleaver for Multi-Fiber Connectors

Manufacturer Part Number:
PNX-FS-02



▶ Click here for more details on the Phenix fibersect.multi.2™, Mechanical Connector Cleaver for Multi-Fiber Connectors

PHENIX FIBER OPTICS

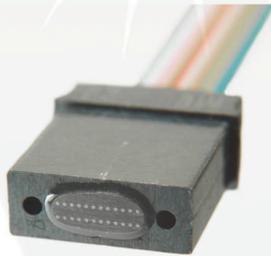
fibersect.multi.2™ Epoxy Fiber Cutter

Overview

The fibersect.multi.2™ quickly cuts off the epoxy and fibers protruding from the face of connector ferrules during the installation process. In less than one second, it produces a flat cut close to the MT 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 multi.2 is optimized for cutting 4 to 72 fiber MT ferrules as well as large diameter fibers used with SMA connectors. With a simple one button operation, small footprint, and battery power, the fibersect.multi.2 provides exceptional versatility, portability, and ease of use in the production environment.



Inserting the MT ferrule



2x12 MT ferrule, 100 µm cut

Features and Benefits

- Optimized for cutting up to 72 fiber MT and MT-APC ferrules as well as SMA connectors with larger fiber diameters
- 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: MT, MT-APC, and SMA with fiber diameter of 300-2000 µm
- Custom adapters are available
- Cut cycle time: <1 sec for MT and MT-APC ferrules; <4 sec for SMA connectors with 1000 µm fibers
- Recommended cut length from ferrule face: 100 µm for MT and MT-APC; 150 µm for SMA connectors
- 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: > 600,000 cuts when cutting 12-fiber epoxied MT ferrules
- Power: 100-240 Vac, 50-60 Hz, 0.48 A; with rechargeable battery
- Battery capacity: >400 cuts when cutting 12-fiber epoxied MT 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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PHENIX

fibersect.multi

fibersect.multi benefits

SIMPLE

- zero training required
- one button operation
 - none of the complicated monitors or tools required of laser or hand cleaving
- increased safety for user
 - protects user from stray fibers or other harmful exposures
- easy maintenance
 - waste bin collects scraps for easy clean-up
- palm size portability
- battery powered
- automate production and reduce human variables
- simplifies process
 - no more hand scribing
 - no more denubbing
 - no more air polishing

PRECISE

- cuts flat
- cuts close to ferrule
- consistent, repeatable cuts
- superior end face geometry
- no heat exposure

ADJUSTABLE

- cuts all single and multiple fiber ferrules
 - easy change adapter plates enable use with any ferrule or connector
 - MTO (4-72 fibers), LC, LC-APC, LC-Duplex, SC, SC-APC, SMA + others
- cuts parallel to ferrule face - 0° or 8° (APC)
 - compatible with pre-angled ferrules
- adjustable cut length
 - easily adjusts to cut from 0-600 um from face of ferrule
- customizable options
 - vacuum dust collector
 - foot switch
 - cut counter
 - adjustable stand
 - folding stand

AFFORDABLE

- fraction of the cost of the laser
 - allows for process automation that is not cost prohibitive
 - allows for multiple units for multiple production lines
- savings in production
 - increased throughput
 - rework costs go down, yield goes up
 - high first pass yield
 - reduced polishing and manpower
 - minimize wasted cable length

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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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