



**somi**  
NETWORKS

RIPLEY – Professional tools for fiber optic cables

SOMI NETWORKS is proudly distributing RIPLEY tools in Baltic states. RIPLEY is Designing, Manufacturing and Assembling Quality Cable Preparation Tools In Connecticut Since 1936

- Ripley owns three brands of professional tools:
  - **Cablematic:** CATV, Telecommunications, Wireless, Satellite
  - **Miller:** Fiber Optic, Voice/Data and Telecommunications
  - **Utility Tool:** Splice and Terminate for Electrical Transmission and Distribution

FIND THE RIGHT TOOL FOR THE JOB WHILE YOUR ON THE GO



1

# Cut the cable



**Specialty Cutter for range of cables**

**High Leverage cutting action**

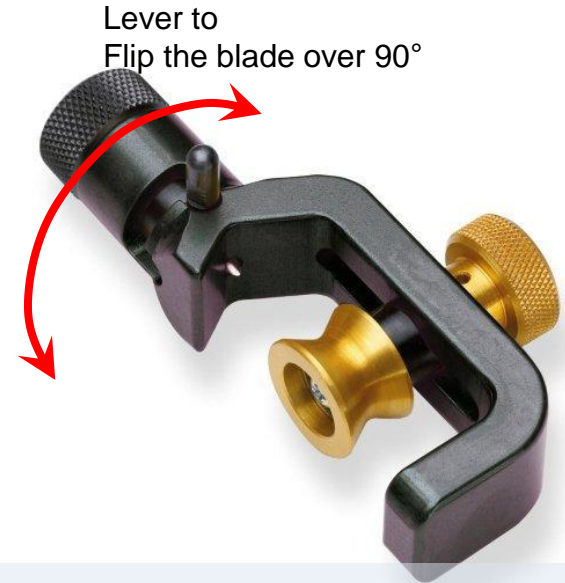
- Range up to app. 3 cm OD cable
- Can cut 9 mm CU conductor
- Can cut 11 mm ALU conductor

**UCC**

2

## Remove Jacket and armoring

### ACS - armored cable slitter



- For slitting corrugated copper, steel or aluminium
- Slits PE and armoring in one operation
- Range: 8 – 28,6 mm
- Cutting depth: max 5,5 mm

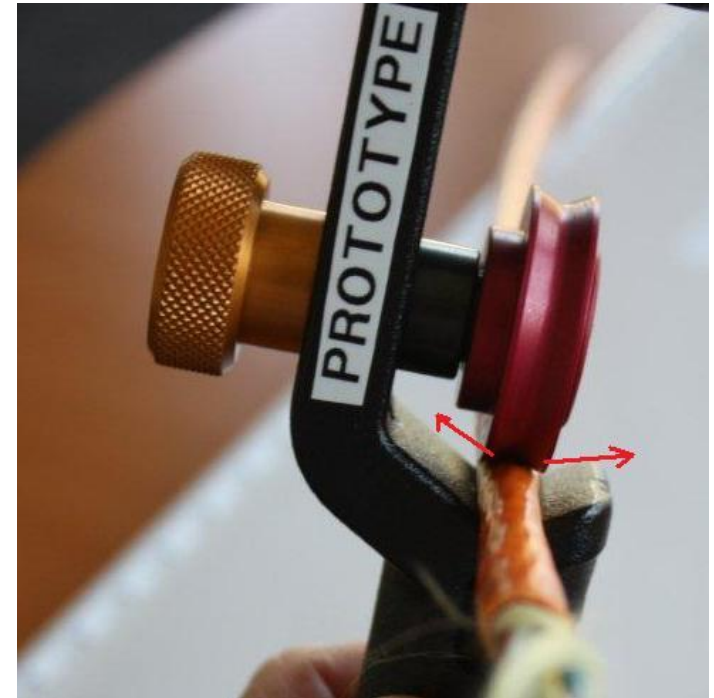
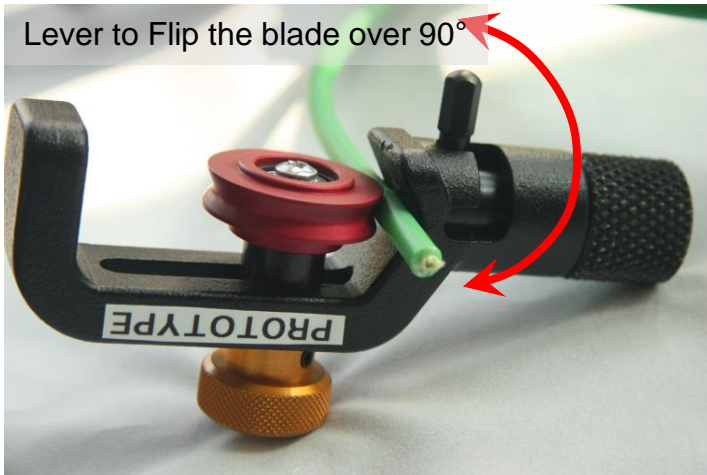
[YouTube Video](#)

2

## Remove Jacket and armoring

ACS-2 cable slitter for thin jackets

Remove jacket (end strip / mid span)

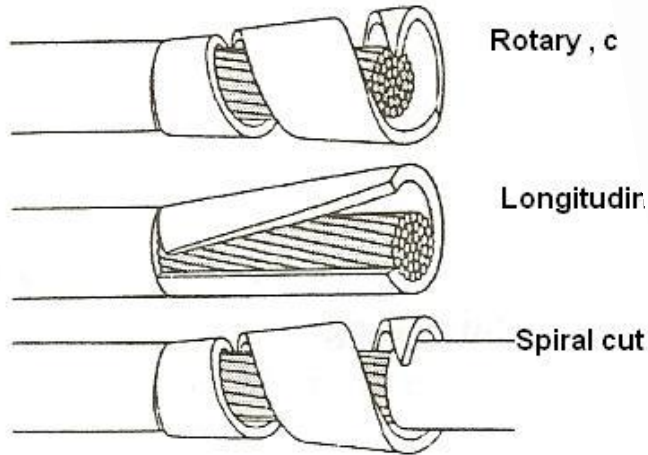
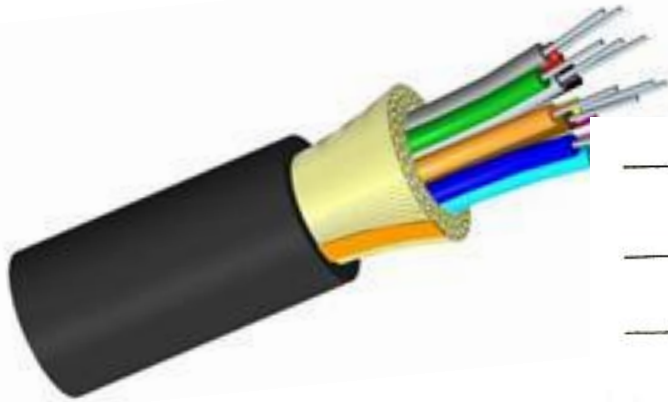


- For slitting thin jackets
- Range OD from: 4 mm up to – 10 mm
- Cutting depth: max 5,5 mm

[YouTube Video](#)

2

# Strip jacket with RCS



## 3 functions

1. Circumferential cut
2. Longitudinal cut
3. Spiral cut (also for midspanning)

### RCS:

Round Cable Stripper

RCS 114 : up to 29 mm OD

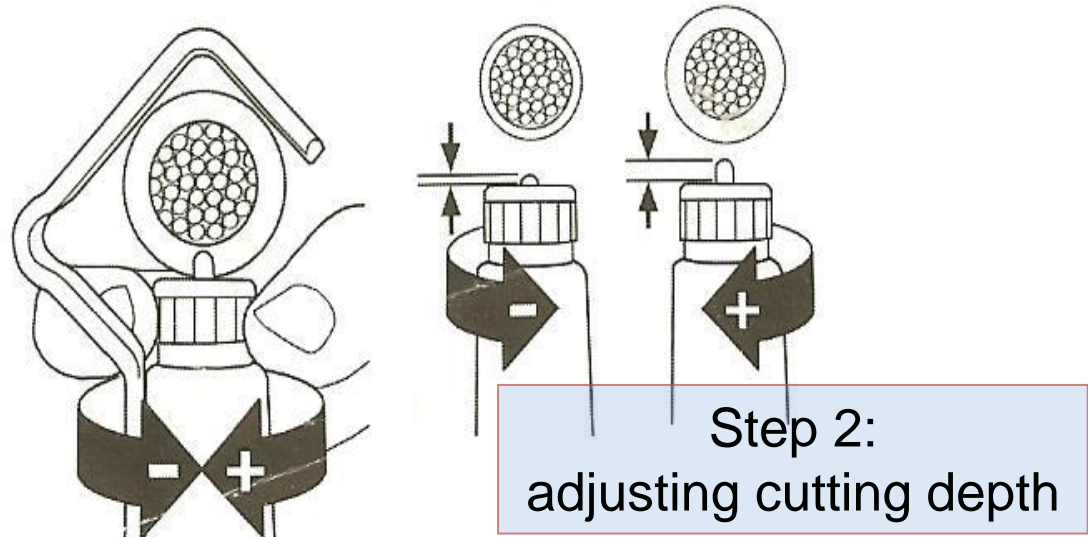
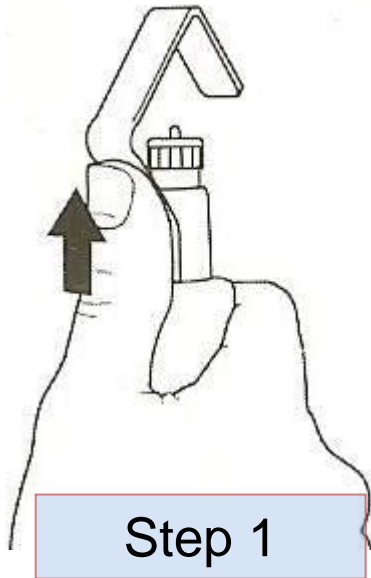
RCS 158: up to 40 mm OD



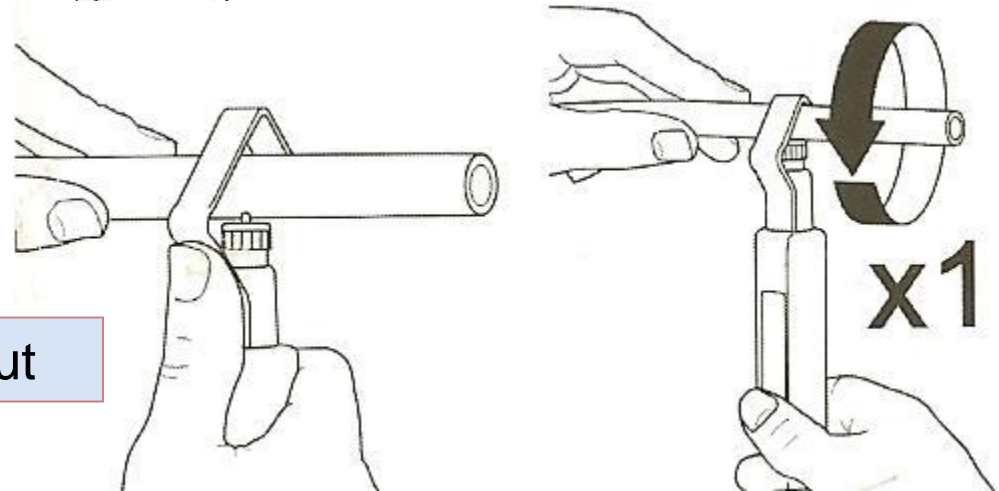
[YouTube Video](#)

2

# Strip jacket with RCS



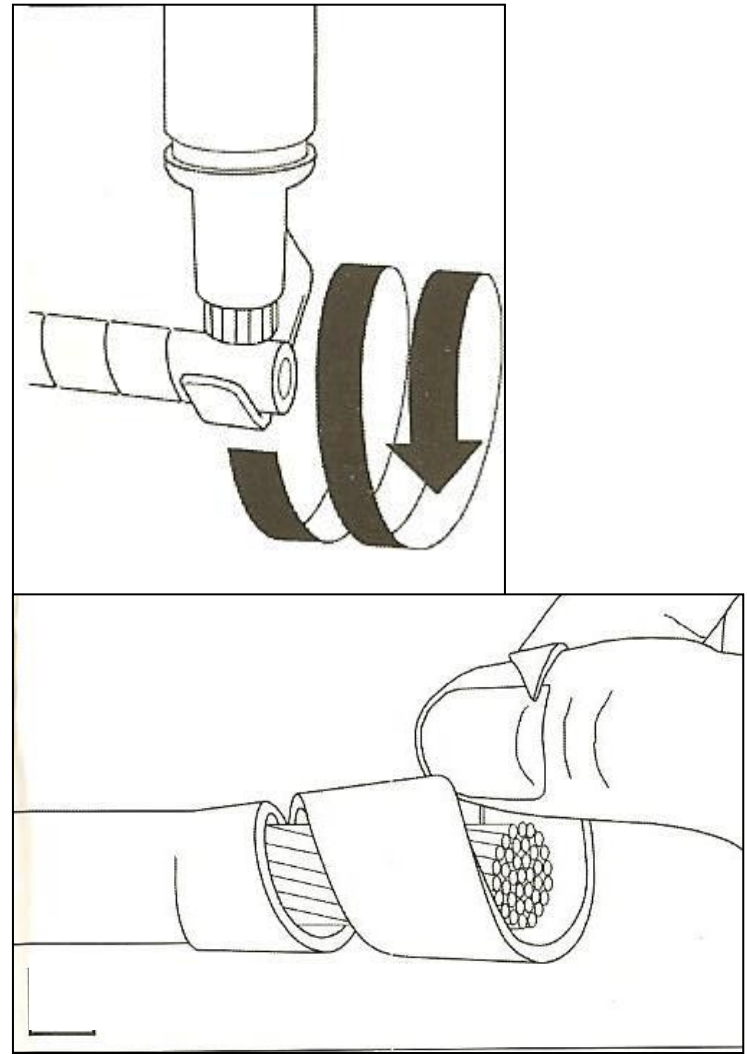
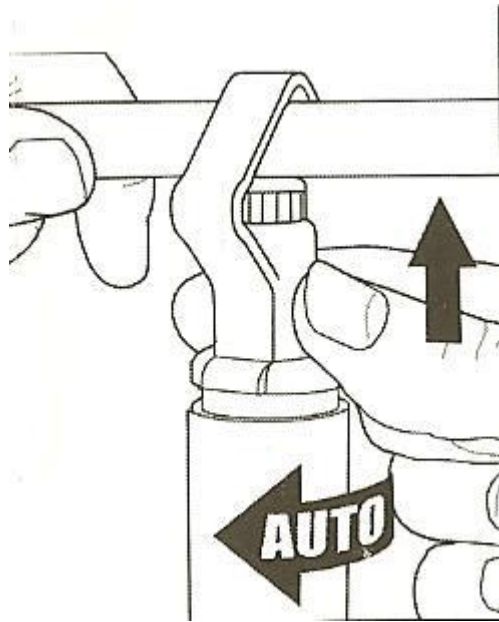
Step 3, circumferential cut



2

# Strip jacket with RCS

Spiral cut





2

## Remove Jacket and armoring

AJS -Adjustable Jacket Slitter



# Remove Jacket and armoring

## AJS Adjustable Jacket Slitter

- Designed for longitudinal, circumferential and mid-span slitting
- For corrugated ALU or Copper shielded cables and ducts (MDPE, HDPE)
- Precision ground steel blade
- Adjustable blade depth – max 6,3 mm
- Cam adjustable lever allows blade dig-in in mid-spanning
- Blade fully retracts inside body for storage
- Lever teeth for soft and hard jackets

### Ranges

- Longitudinal: > 12 mm
- Circumferential : > 38 mm
- Window cutout : > 38 mm

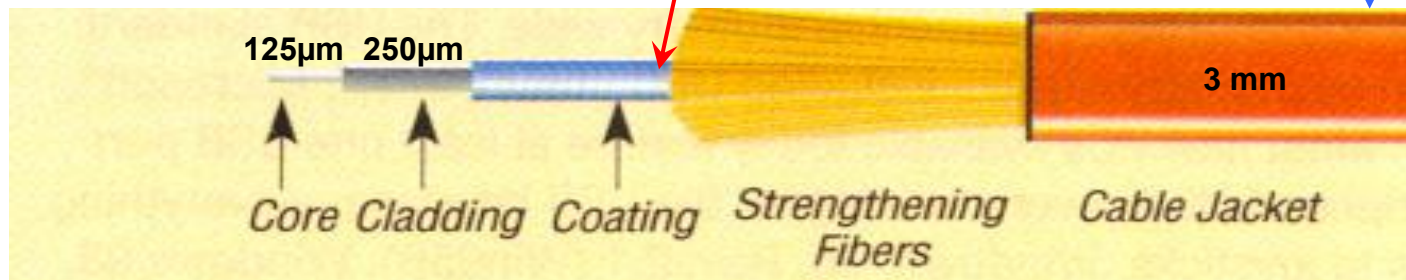


[YouTube Video](#)

# Simplex / duplex cable

Characteristics	Unit	Cable Type					
		A	B	C	D	E	F
Buffer diameter	µm	650	900	900	900	900	900
Nominal outer diameter	mm	1.6	2.0	2.4	2.8	2.9	3.0
Nominal cable weight	kg/km	2.4	3.6	5.3	6.9	8.2	8.6
Maximum tensile load							
- Short term [Loaded]	N	80	180	220	220	220	320
- Long term [Installed]	N	40	90	100	100	100	160
Minimum bending radius							
- Short term [Loaded]	mm	40	50	50	50	50	50
- Long term [Installed]	mm	20	30	30	30	30	30

\* Tested in accordance with IEC 60794-1



# Remove Jacket



type	sizes										
721					0,6	0,8	1,0	1,3	1,6	2,0	2,6
821			0,4	0,5	0,65	0,8	1,0	1,3			
921	0,25	0,32	0,4	0,5	0,6	0,8					

2

## Remove Jacket

### New tool



#### **FOJST**

#### **Fiber Optic Jacket Slitting Tool**

Compact and easy to use ONE-STEP jacket slitter for PVC jacketed fiber cables.

Provides two jacket slits 180 degrees apart with nick free jacket slitting required for cable preparation on certain fiber connectors.

Blade cassettes have blade indicator marks providing the exact location of the blade for an accurate cable preparation length.

Model FOJST 2/3 mm (Part No: 81210) has blade cassettes with two slitting channels to accommodate the various jacket sizes.

Model FOJST 1.6/2.4 mm (Part No: 81215 is also available)

Factory set non-adjustable blade cassette for repeatable and exact cable preparation each and every time

Made in the U.S.A.

Dimensions: 2.875 x .875 x 2.125 in (73.03 x 22.23 x 53.98 mm)

Weight: .94 oz (26.7 g)

# Next operations

3

Cut Kevlar / aramid yarns

4

Cutting / opening tubes

5

Clean the fibers, remove jelly

6

Strip fiber

# 3

## Cut Kevlar / aramid yarns

- Fine serration
- Long jaws
- Ergonomic handles

- Fine serration
- Short jaws
- Springs



[YouTube Video](#)

[YouTube Video](#)

3

## Cut Kevlar / aramid yarns

### KC699 Kevlar® Shears

Oversized molded handles for operator comfort

Blades are hardened stainless steel with a fine serration on one blade to grip Kevlar® fibers and prevent slipping while cutting

Ambidextrous handles for right- and left- hand use

Made in Japan

Length of cut: 2.5 in. (64 mm)

Length: 7.25 in. (184 mm)

Weight: 1.6 oz (45 g)

Part No.: 46175



[YouTube Video](#)



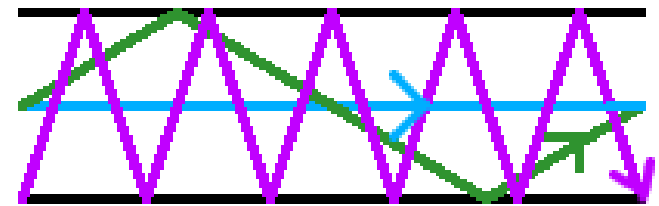
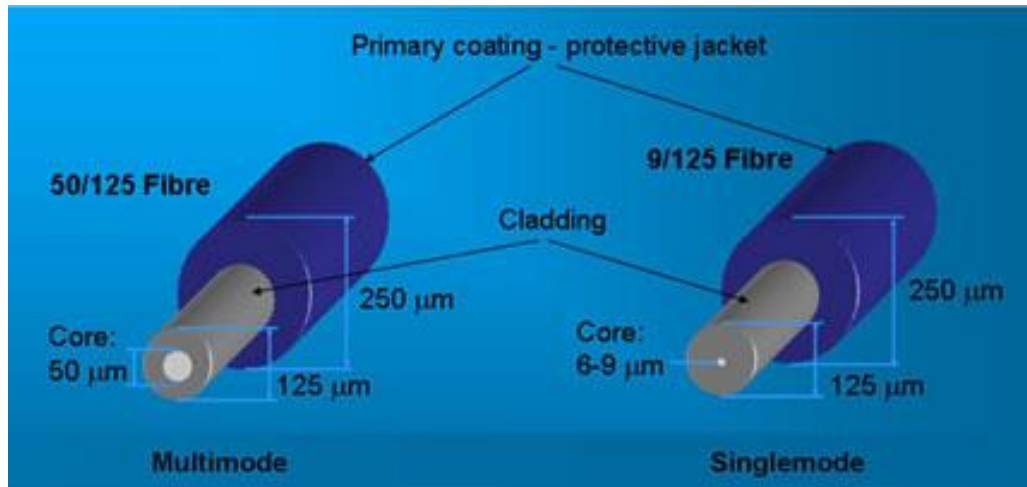
**Fiber Coating**  
Material: Teflon, rubber, plastic, etc  
Size: 250 to 900 $\mu$ m

**Fiber Cladding**  
Material: Glass  
Size: 125 $\mu$ m

**Fiber Core**  
Material: Glass  
Size: From 8.6  
to 62.5 $\mu$ m

**The Fiber**

# Single mode and Multi mode



Multi-mode fiber

## Single mode:

- 8 – 10 µm
- Travel down the middle
- Cable TV, Internet, Telephone
- Long distances

## Multi mode:

- 50 – 62,5 µm
- Different modes, bouncing
- Computer networks, sensing
- Shorter distances

4

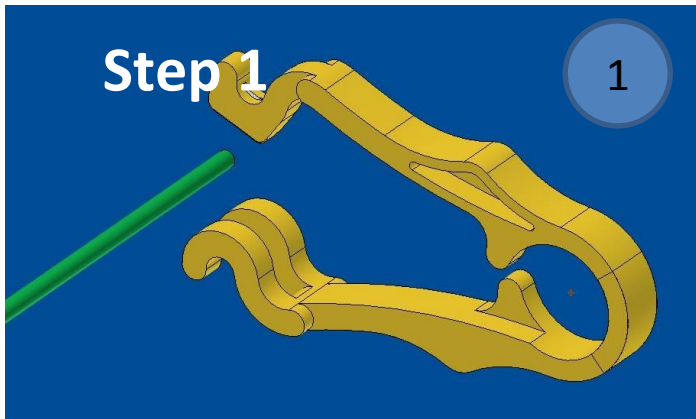
# Cutting / opening tubes

## FTS Fiber Tube Scoring tool



[YouTube Video](#)

# Score the tube

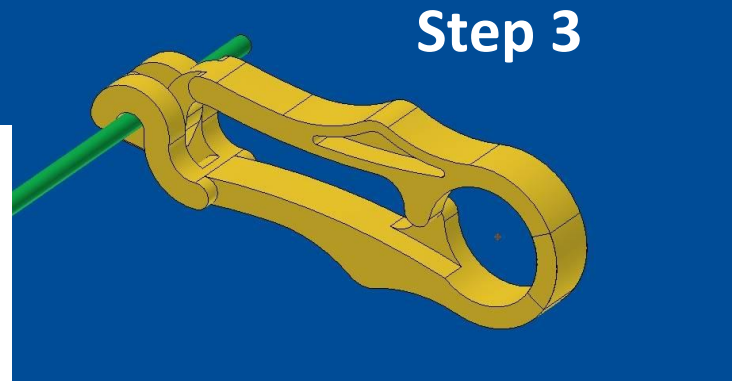
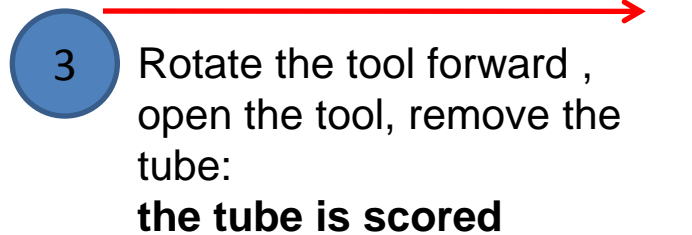
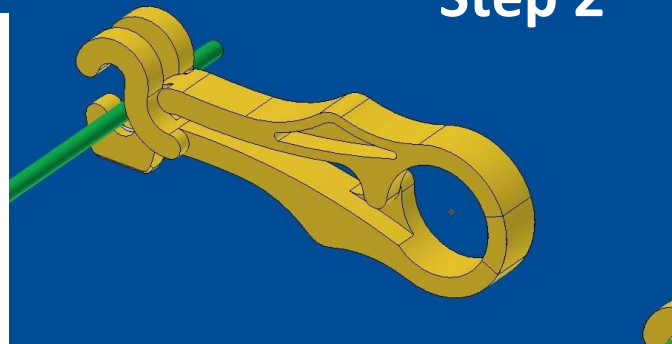
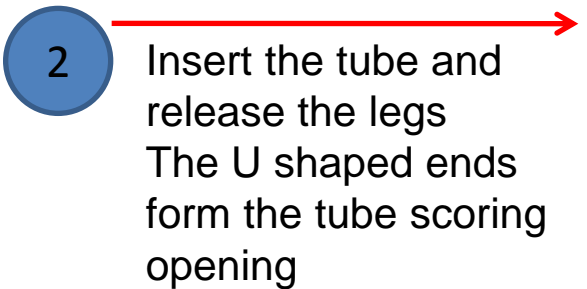


1

Close the tool by depressing the legs

## Advantages

- 1,6 to 6 mm range
- No adjustments needed
- Cost effective



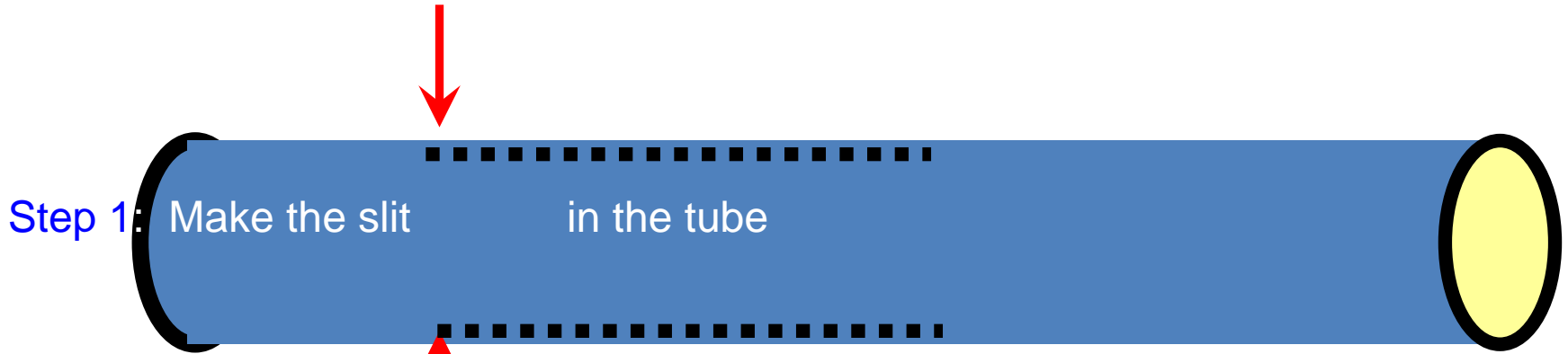
# 4 Cutting / opening tubes



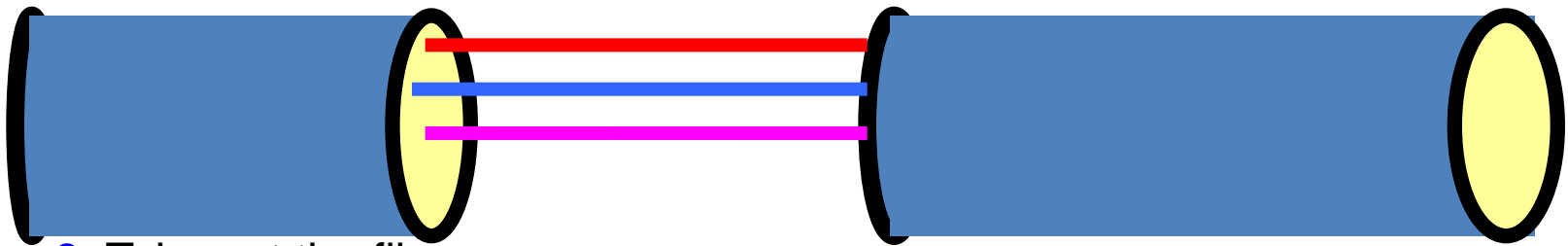
## FTS-035 Fiber Tube Scorer

- Precise one-step buffer tube scorer
- > Unique design easily scores buffer tube sizes from 1.6 mm to 6.0 mm
- > Designed for thicker wall tubes from .030 in. (.76 mm) to approximately .050 in. (1.27 mm)
- > Factory fixed hardened carbon steel blade requires no blade adjustment
- > Body made of strong resilient BLUE acetal polymer
- > Made in the U.S.A.
- > Dimensions: 3.75 x .625 in. (95.53 mm x 15.92 mm)
- > Weight: 1 oz (28 g)
- > Part #: 80985

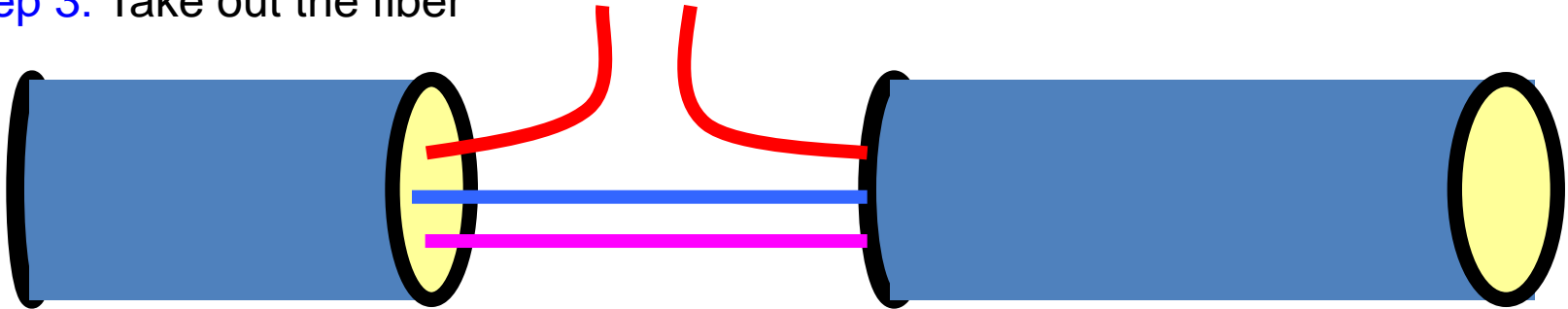
# Mid Span access



Step 2: Cut/Score the tube use the FTS



Step 3: Take out the fiber



# 400 series Kit

**Complete kit with 5 different heads:**

- **Size 1: 1.8 mm (1.6 – 1.8)**
- **Size 2: 2.2 mm (2.0 – 2.2)**
- **Size 3: 2.3 mm (2.3 – 2.5)**
- **Size 4: 3.0 mm (2.7 – 3.0)**
- **Size 5: 3.3 mm (3.1 – 3.3)**

- **Dual Blade Design Part nr # 80830-002**
- **Replacement Blades: 80235-1 (2 blades)**
- **Mid span slitting**
- **Interchangeable colour coded head blocks**



# MSAT tool



MSAT Slot	Tube diameter
2,0	1,8 – 2,2 mm
2,5	2,3 – 2,8 mm
3,0	2,8 – 3,2 mm

[YouTube Video](#)



# MSAT-5 (5 slots)

*Mid Span Access Tool for 5 sizes*

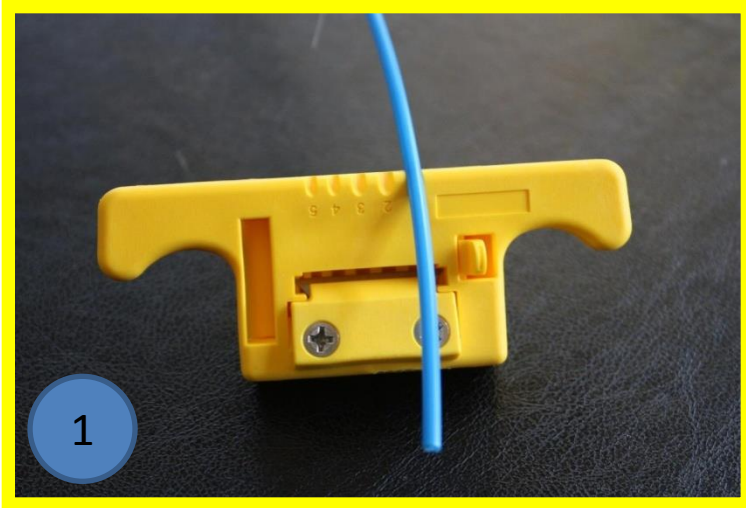


## Slots

1.9 | 2.2 | 2.5 | 2.7 | 3 mm



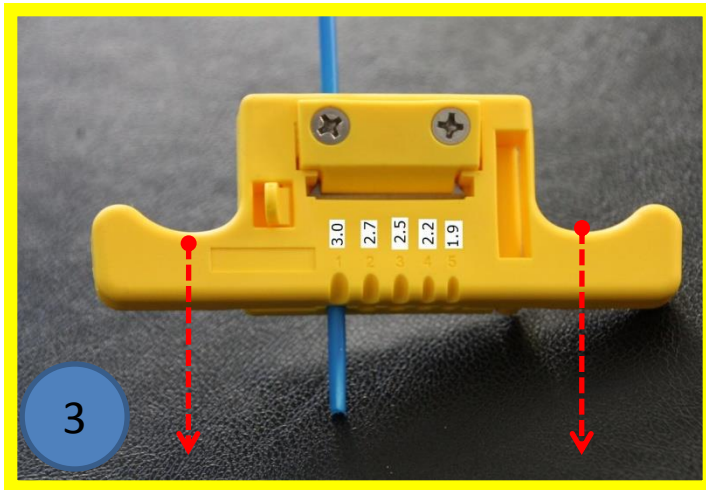
[YouTube Video](#)



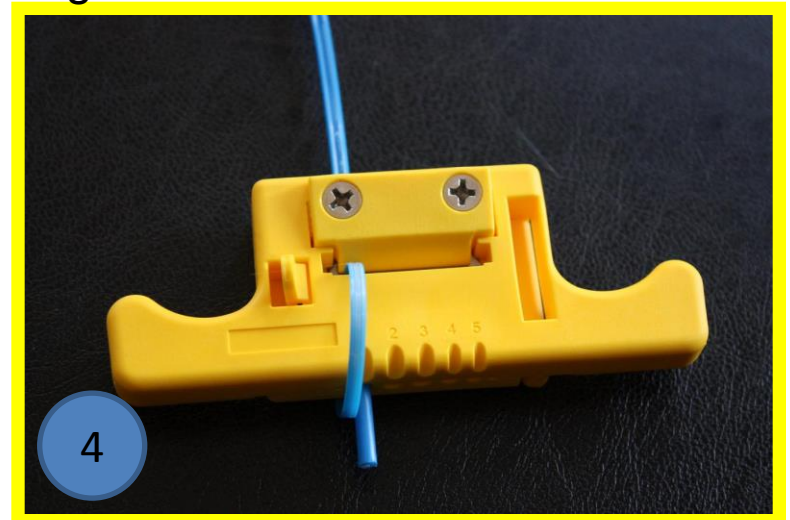
Size the tube



Open the tool and insert the tube in the right slot.

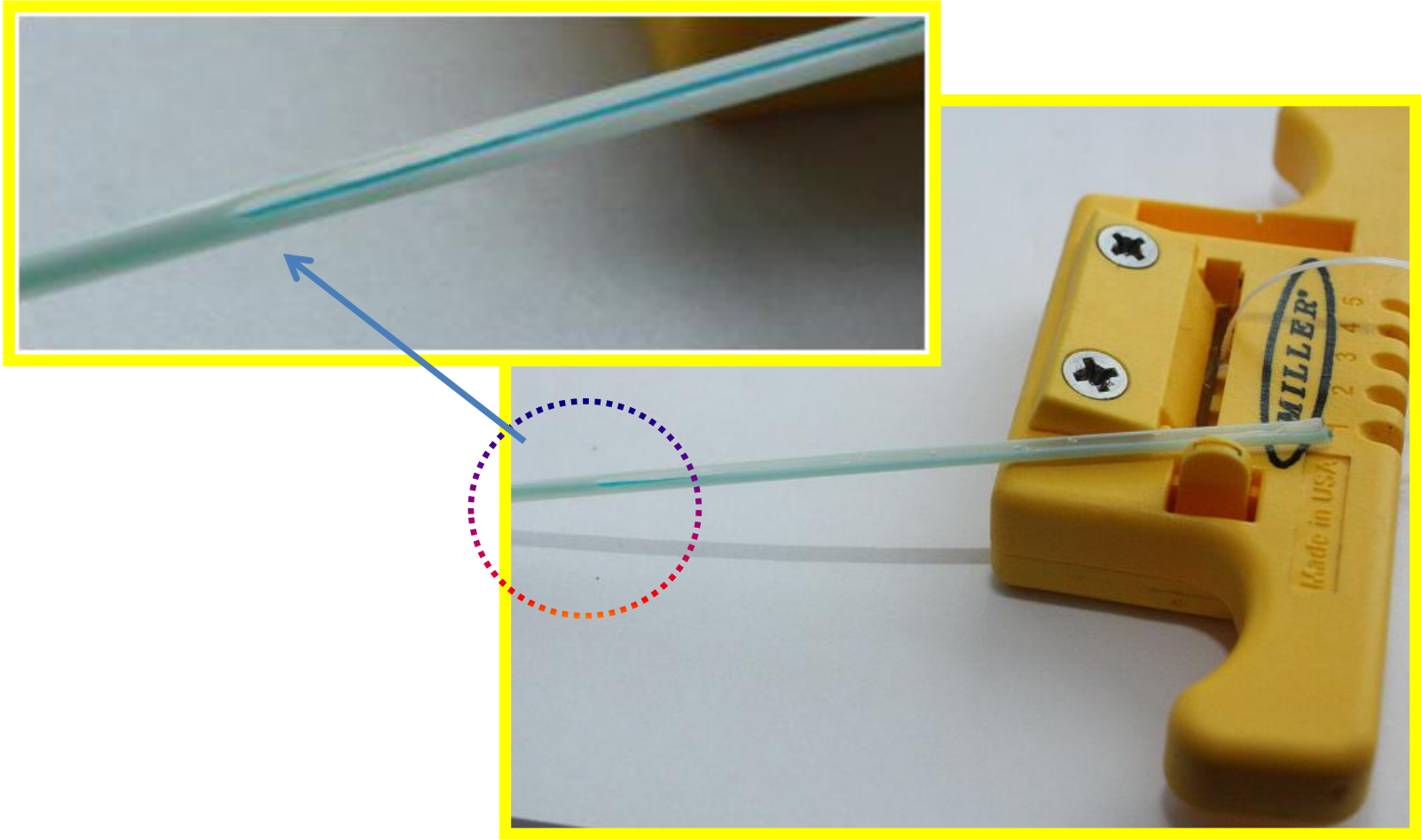


Close the tool and pull the tool



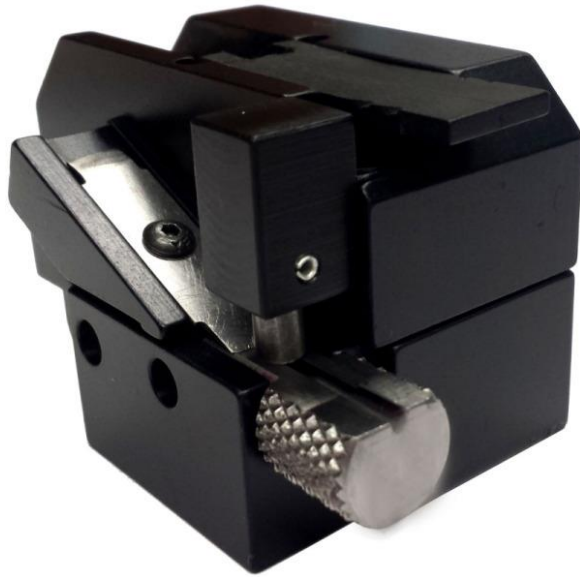
Result of the shaving

# Result



# New tool MSAT Micro

## MSAT Micro Mid-Span Access Tool – Interchangeable Inserts



[YouTube Video](#)

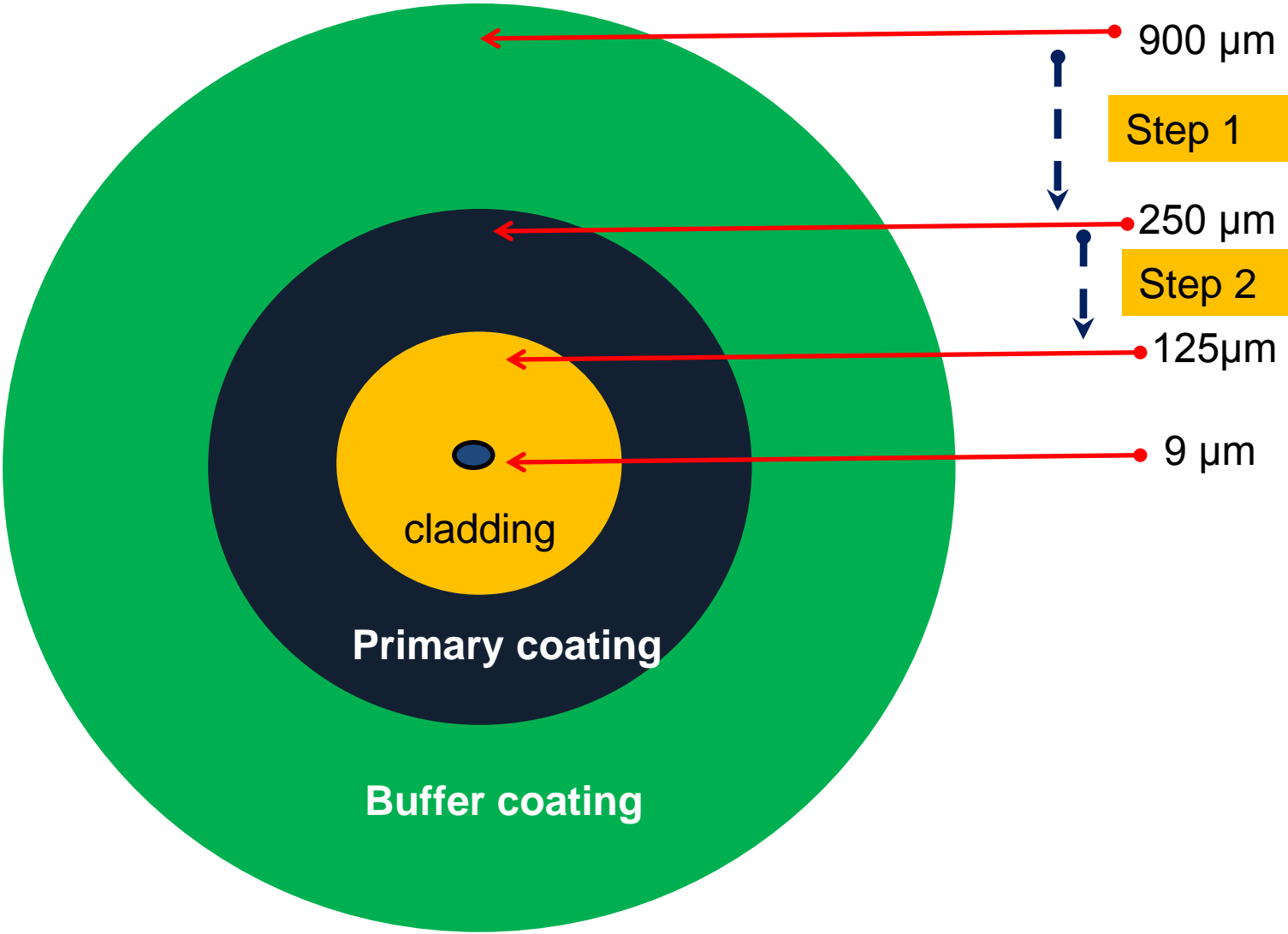
- Compact and user friendly tool provides quick and easy mid-span access to smaller buffer tubes without fiber damage
- Tool design will accommodate a range of interchangeable inserts from 1.2 mm up to and including 1.8 mm
- Accesses the fiber by precision “shaving” of the buffer tube wall
- Consistent and reliable buffer tube access without any adjustment to tool insert or blade
- Double-sided blade for twice the blade life
- Locking lever mechanism provides constant pressure to the two body halves ensuring a precise and consistent shaving operation
- Tool available as Part No.: 81460 (without insert) plus your choice of size inserts, see list below
- Patent Pending
- Made in the U.S.A.
- Replacement Blade Part No.: 81472 (includes 1 double sided blade, 1 screw and 1/16 in. hex wrench)
- Dimensions: 2.88 x 1.63 x 1.50 in. (73 x 41 x 38 mm)
- Weight: 6.6 oz (187 g)
- Tool Inserts and Part No.:
- 1.2 mm-81512
- 1.3 mm-81513
- 1.4 mm-81514
- 1.5 mm-81515
- 1.6 mm-81516
- 1.7 mm-81517
- 1.8 mm-81518
- Insert dimensions: 1.77 x 0.472 in. (45 x 12 mm)
- Insert weight: 0.9 oz (26 g)

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# Strip the Fiber



# Stripping the fiber



# Choice Stripping tools

**FO-103-S**



**FO-103-T**



[YouTube Video](#)



**CFS-2**

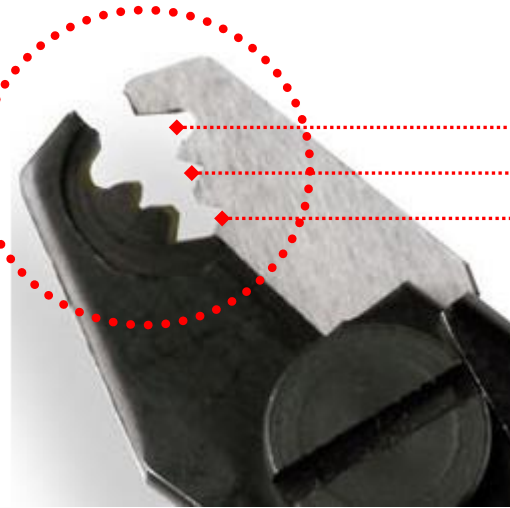
**CFS-2 900**

**New version – CFS-2 900**

[YouTube Video](#)

# FO-103 stripper

3 hole stripper



1. Jacket removal 2-3mm
2. 900 - 250  $\mu$ m
3. 250 - 125  $\mu$ m

FO-103-T-250J

The Tri hole stripper combines 3 tools.

1. 1 hole for removing the jacket of a simplex/duplex cable – 3mm.
2. 1 hole for stripping from 900  $\mu$ m to 250  $\mu$ m
3. 1 hole for stripping the secondary coating 250 – 125  $\mu$ m



# Stripper handles

**D** = Dual hole

**T** = Tri hole

**J** = Jacket

**250** =  $900\mu\text{m} > 250\mu\text{m}$  AND  $250\mu\text{m} > 125\mu\text{m}$



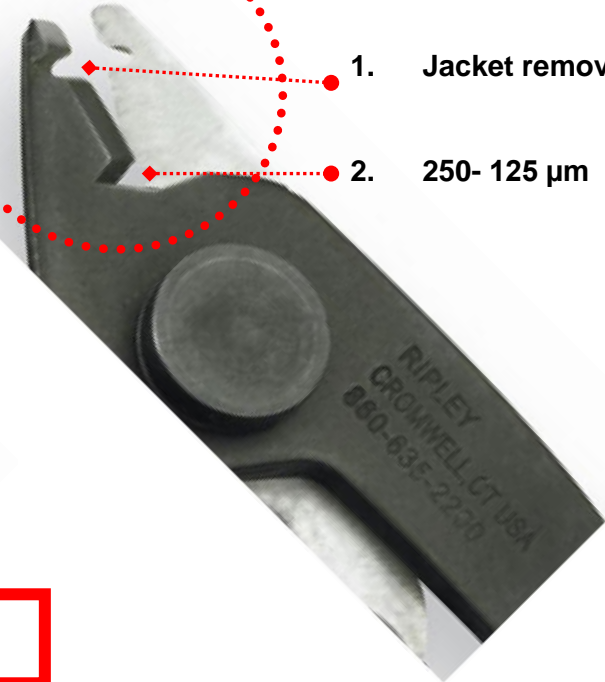
\*The function of the tools is printed on the handles.

# CFS-2 stripper

2 hole stripper



**CFS-2**



1. Jacket removal 2-3mm

2. 250- 125  $\mu$ m

# Specials FO-103-S

Model	Finished cladding
FO-103-S	125 $\mu\text{m}$
FO-103-S-100	80 – 100 $\mu\text{m}$
FO-103-S-140	140 $\mu\text{m}$
FO-103-S-150	150 $\mu\text{m}$
FO-103-S-162	162 $\mu\text{m}$
FO-103-S-175	175 $\mu\text{m}$
FO-103-S-187.5	187.5 $\mu\text{m}$
FO-103-S-200	200 $\mu\text{m}$
FO-103-S-225	225 $\mu\text{m}$
FO-103-S-250	250 $\mu\text{m}$
FO-103-S-300	300 $\mu\text{m}$
FO-103-S-525	525 $\mu\text{m}$

Different models  
within FO-103-S  
range



## SnC

New all-in-one unique tool design combines jacket stripping, optical fiber stripping and cutting of Kevlar® strength members in one compact tool body

> Three hole fiber stripper allows jacket removal from 1.6 to 3.0 mm cables.

Two additional holes for stripping 900 micron tight buffer to 250 micron buffer coating and standard 125 micron fiber stripping (250 micron removal to 125 micron)

> Fiber stripper and Kevlar cutter slides out of the protective tool body when in use and slides back inside when not in use by activating the sliding tab located on each side of the tool

> The fiber stripper and the Kevlar cutter are conveniently stored inside the tool body when not in use, for extra safety and tool life protection

> Easy to read fiber stripping diagrams are molded into the tool body

> Tool body has a handy molded-in loop for attaching/hanging purposes

> All cutting surfaces are precision formed, hardened, tempered and ground assuring precise tool performance

> Factory set, requires no adjustment

> Made in the U.S.A.

> Patent Pending

> Dimensions: 3.75 x 1.25 x .70 in. (95 x 32 x 18 mm)

> Weight: 3 oz (85 g)

> Part #: 81430

[YouTube Video](#)



[YouTube Video](#)

### FO-CF Fiber Optic-Center Feed Stripper

- New fiber stripper with center feed design allows for longitudinal approach fiber stripping
- The fiber is fully supported in the stripping process of 900 micron buffer coating to 250 micron and standard 250 micron coating to 125 micron stripping
- Side mounted stripper blades provide convenient stripping of 1.6 mm to 3 mm cable jackets
- Measurement scale in inches/mm built into the tool jaw and body up to 2 3/4 in. (70 mm) for ease of proper cable preparation
- Compact, lightweight and ergonomically designed for ease of use
- All cutting surfaces are precision formed, hardened, tempered and ground assuring precise cable jacket, buffer and acrylate removal with no scratching or nicking of the fiber
- Tool is factory set and requires no adjustment
- Removable cleaning brush is conveniently attached to the stripper for periodic cleaning of stripping jaws
- FO-CF Brush Part No.: 81410
- Tool supplied with its own individual protective polymer tool case for clean and safe storage
- Made in the U.S.A.
- Dimensions: 1.17 x 2.19 x 4.08 in. (29.7 x 55.6 x 103.6 mm)
- Weight: 2.8 oz (79 g)
- Part No.: 81400

# Preparing fiber for connector

- ✓ Strip jacket
- ✓ Cut Kevlar
- ✓ Strip Fiber
- ✓ Cut Fiber
- ✓ Put connector on
- ✓ Crimp
- ✓ Polish fiber





F-SMA



FDDI/MIC



ESCON



T-ST



T-SC



T-SC-Duplex



T-SC/APC-8°/9°



MTRJ (male)



MTRJ (female)



LC



LC-Duplex



FC/PC



FC/APC



DIN

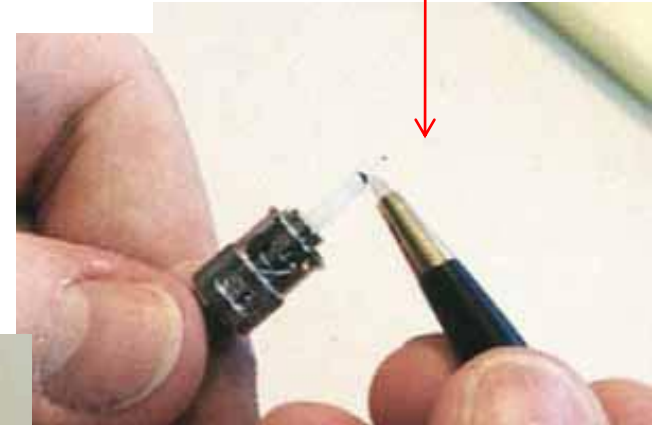
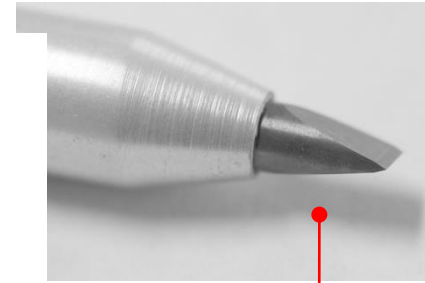


E-2000



E-2000/APC

# Connectorisation





# Cleaver : FOC-SS



## Fiber optic Cleaver: Score and Snap

- Designed for fiber cleaving applications that include field termination of fiberconnectors and mechanical splices as well as laboratory applications
- The “Score and Snap” leaf spring function is easy, fast and the preferred method by many fiber installers
- Produces a precise cleave endface angle of less than 2°
- Supplied with a standard carbide cleaning blade capable of over 6,000 consistent cleaves

# Precision Cleaver : FOC 125

## Precision Cleaver FOC 125

Small and lightweight design that is used in the lab or in the field.

Provides ultimate reliability, repeat-ability and efficiency along with ease of use.

Designed for single and multimode fiber with cladding diameter of 125 micron.

Fiber coating diameters of 250 micron and 900 micron.

Cleaved length 6-20mm (250 micron) and 10-20mm (900 micron).

Provides 48,000 cleaves blade life (1,000 fibers x 3 heights x 16 positions) before blade replacement.

Cleave angle capability provides a precise cleave and face angle of <math><0.5</math> degrees

Cleaver supplied with Side Cover installed only (no Scrap Collection System -Scrap Box)

Convenient protective soft shell suede carrying case, and 1.5mm Hex Wrench provided.

Part #: 81010



# Fiber preparation

- Polishing kit PK2000

- FS 600 Polishing plate (lexan)
- FS 700 Neoprene polishing pad
- FS 800 Plastic 2.5 mm polishing puck
- FS 900 Stainless Steel 2.5 mm polishing puck
- PFAO-.5 polishing film .5 micron (white)
- PFAO-3 polishing film 3 micron (yellow)
- PFAO-12 polishing film 12 micron (red)
- F 1000 Cleaning Wipes
- FS 400 Bifurcated Swipes



- Safety kit FS9500

- FS 100 Work mat
- FS 200 Trash Can
- FS 300 Safety glasses
- FS 400 Bifurcated Swipes
- FS 500 Splinter removal tweezer



- MDP-8 alcohol dispenser



# MT-1 Tweezer

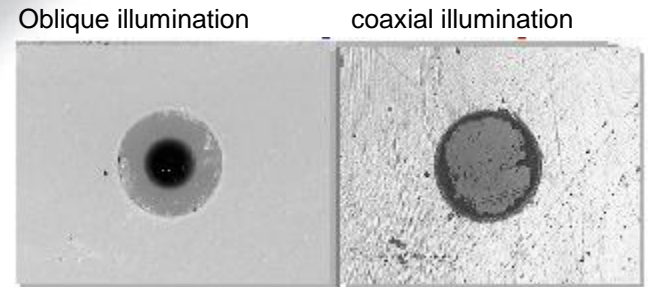


# Check the connector quality

- Check surface
- Check pigtail



FMIM 200x  
FMIM 400x



LC Adapter



# Fiber Checker

- Check optical link
- Detects breaks, leaks, faulty connectors or splices and ends or other causes of signal loss.
- 0,5 mW (-3dBm) power
- Red laser : 650 nm
- Distance: 5-7 km
- LC adapter included



LC Adapter



Soft protection case



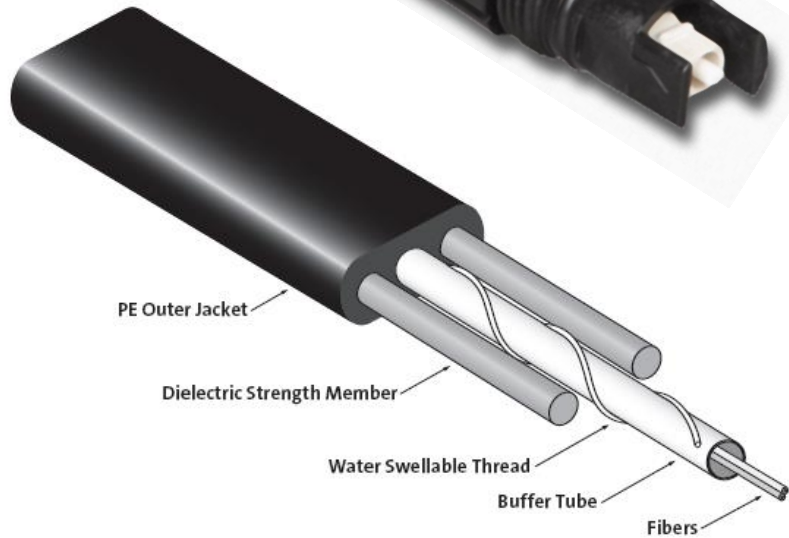
# Fiber Continuity Tester



## CCT - 2 Fiber Continuity Tester

- Provides a high intensity, long-lasting RED LED light source that transmits light instantly and accurately down the fiber to a maximum range of 2 km
- New design provides a more economically priced tool over the original CCT-2001
- Provides a fast, efficient and low cost check of fiber continuity in the field
- Use with both single mode and multimode fiber
- Compatible with almost all types of connectors including ST, FC, SC, LC and MT-RJ
- Push button operation
- Uses (3) each LR41 or AG3 batteries (included)
- CE certified
- ROHS Compliant
- 5 lumens, 60Mw 30M a, 620-640nm
- Part No.: 46097

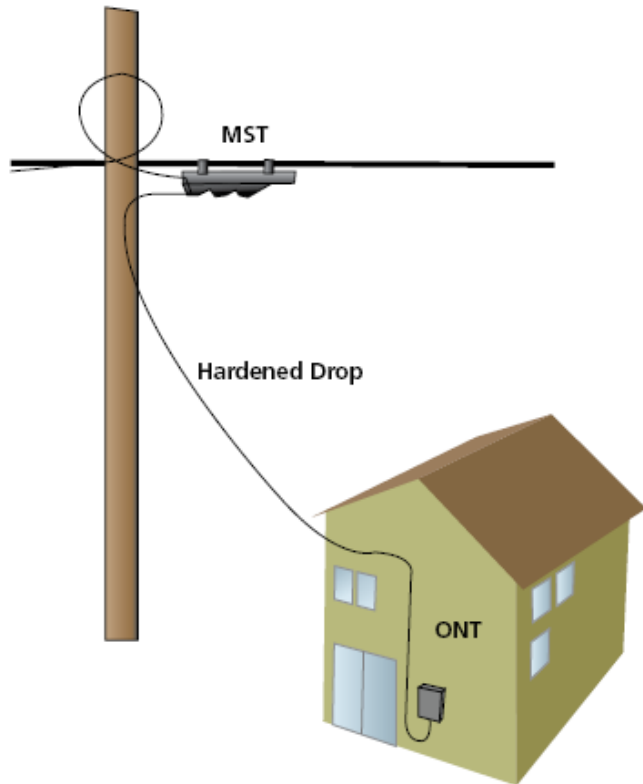
# Flat Optical Drop Cable



**Optisheath® MF Multiport Terminal**



# Application



## FTTX networks

- MST incorporates hardened optical connector technology to withstand the rugged outside plant environment. Connectors are factory terminated
- Used in optical drop cable deployments

- MST : Multiport Service Terminal
- ONT: Optical Node unit

# Application flat drop cable

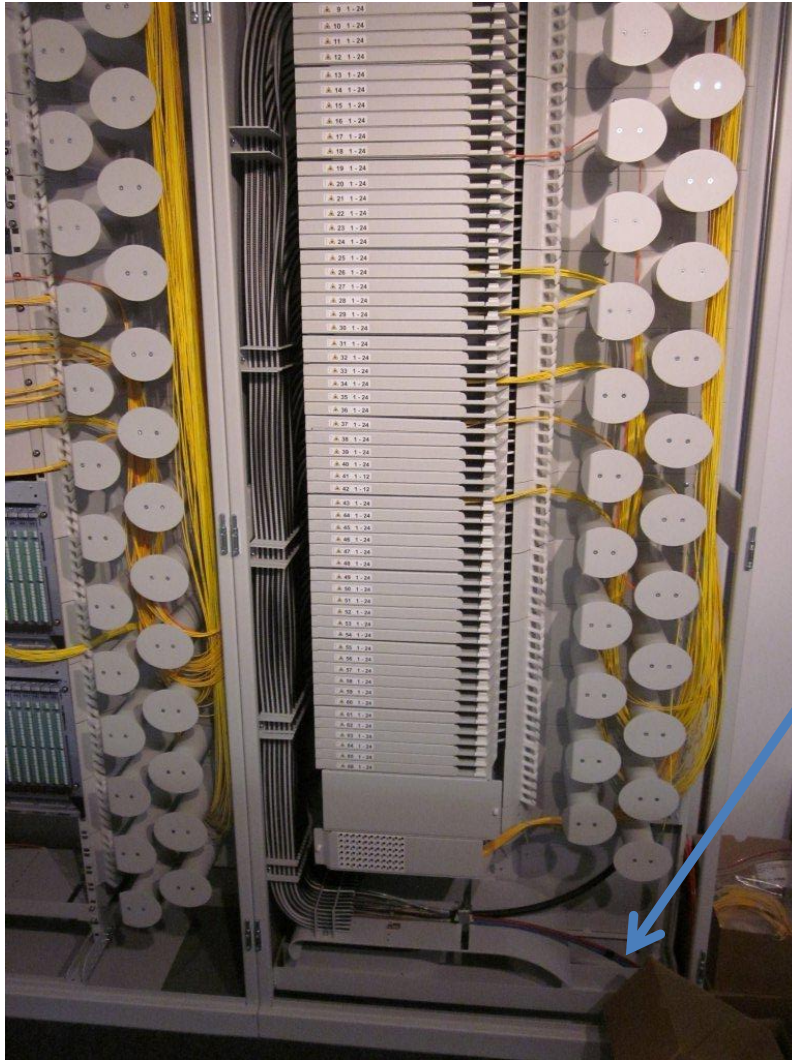


# FDS tool for Flat Drop Cable



description	Part nr
FDS	42670
RP CB 229	37048 (CB 229)

# Application 400 serious tool



## Cable entry in a POP

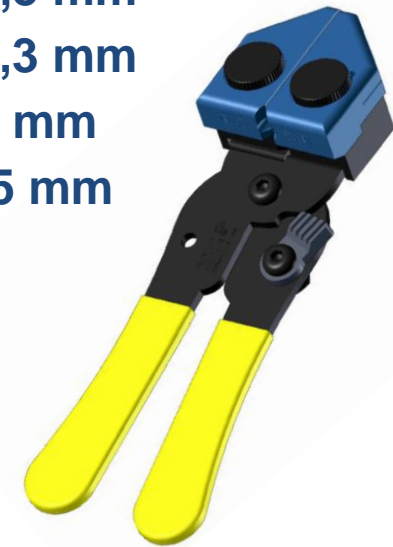
Jacket of cable has to be removed over a longer length (up to 6 meters) Additional guide blocks for 400 Series Kit :

80830-016 – 3,5 mm

80830-009 – 5,3 mm

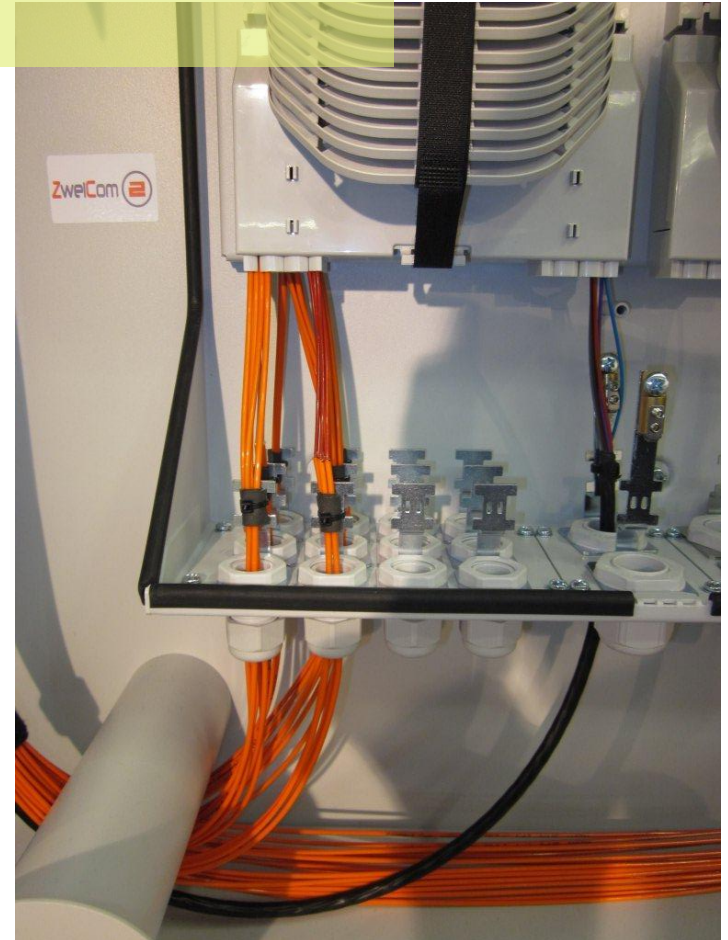
80830-010 – 6 mm

80830-007 -8,5 mm



# Applications 400 series tool

**2.5 mm & 4.0 mm cable  
(nylon jacket)**



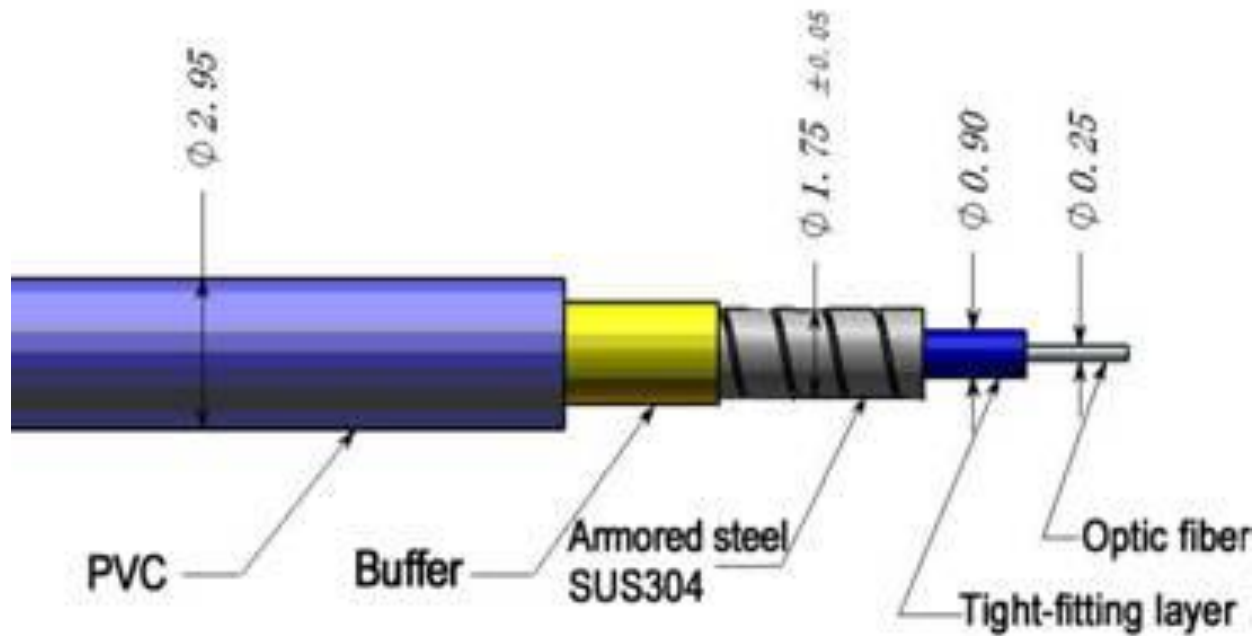
# Field application



# New armored fiber cables in FTTH access networks



Armored fiber cable



# STR - Steel tape removal



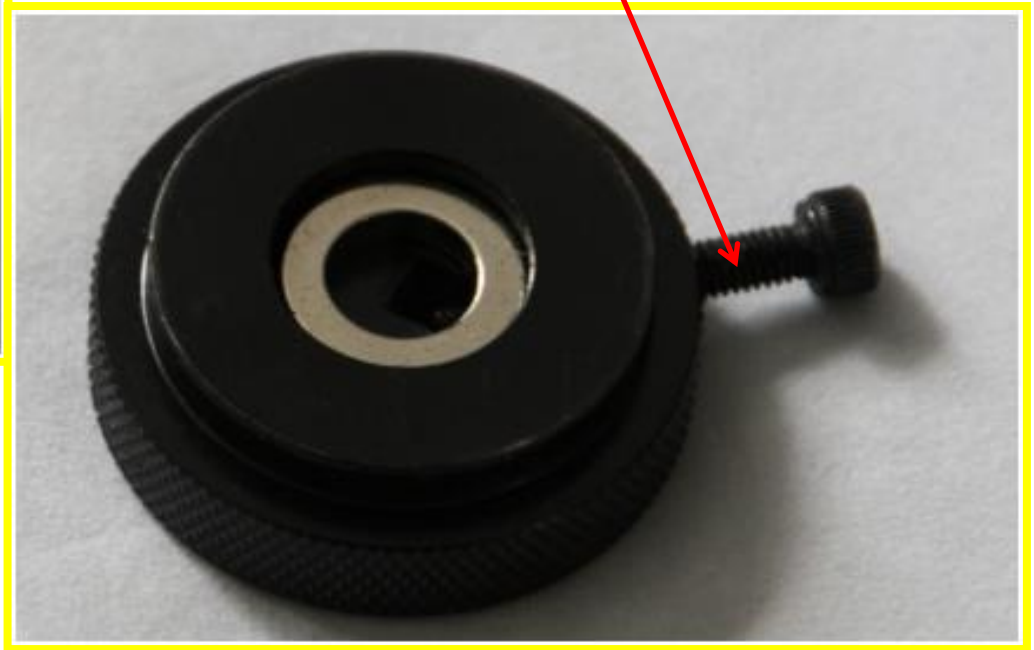
- Heat treated steel for long life
- 2 separate parts (discs) , screw clamps to hold the cable in the tool
- Size app. 3,8 cm



# How it works

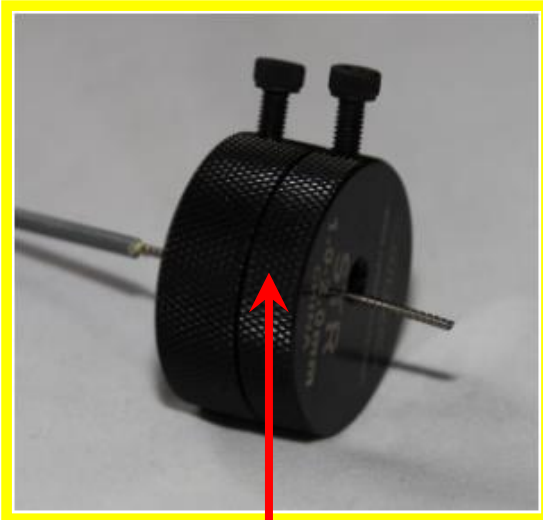


Screw for avoiding  
the cable to move in  
the tool



[YouTube Video](#)

# How it works



Part I

Part II



Step 1:

- Remove the PVC jacket of the fibre cable

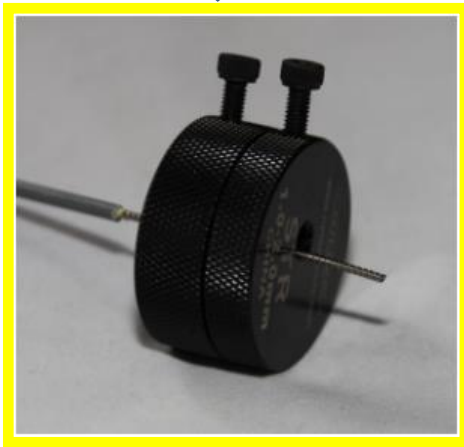
Step 2:

- Click part I and II together (magnet will hold the discs together). Release the screws. Put the cable through the holes of the discs.

Step 3:

- Tighten the screws and hold the cable down to ensure it will be locked by the screw.

# How it works

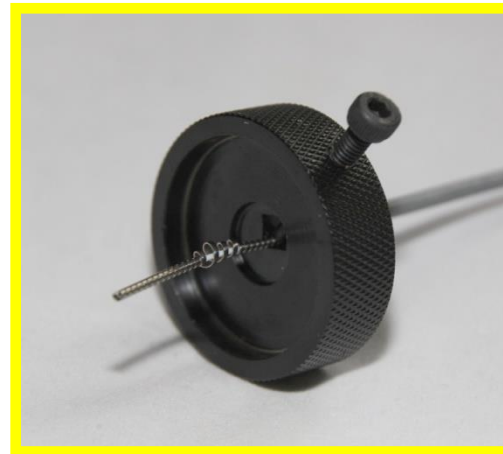


Step 4:

- Rotate the outer ring (both parts are knurled) 3 – 3,5 revolutions in the appropriate direction.

Step 5:

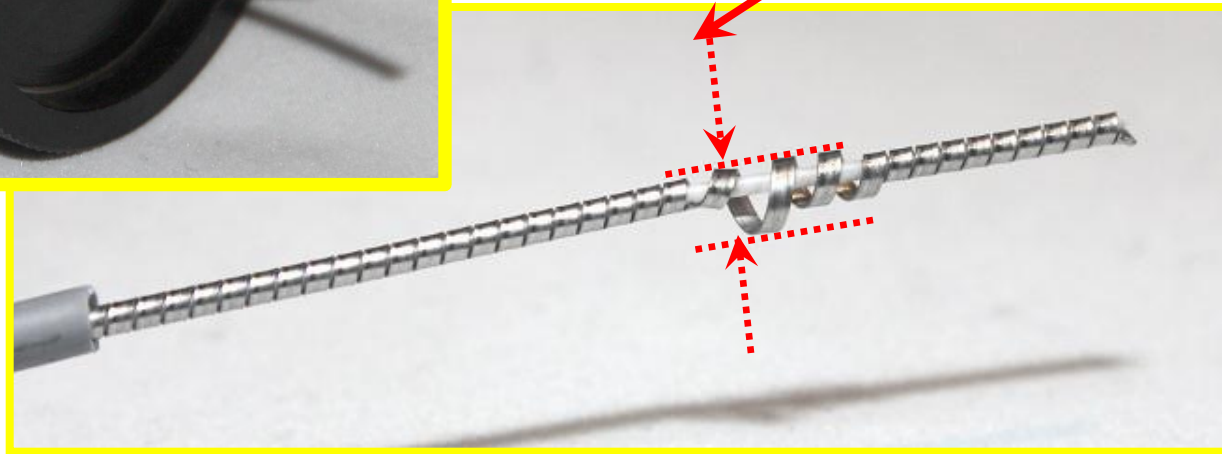
- Release the screws, remove the smaller disc..
- The steel tape opened.



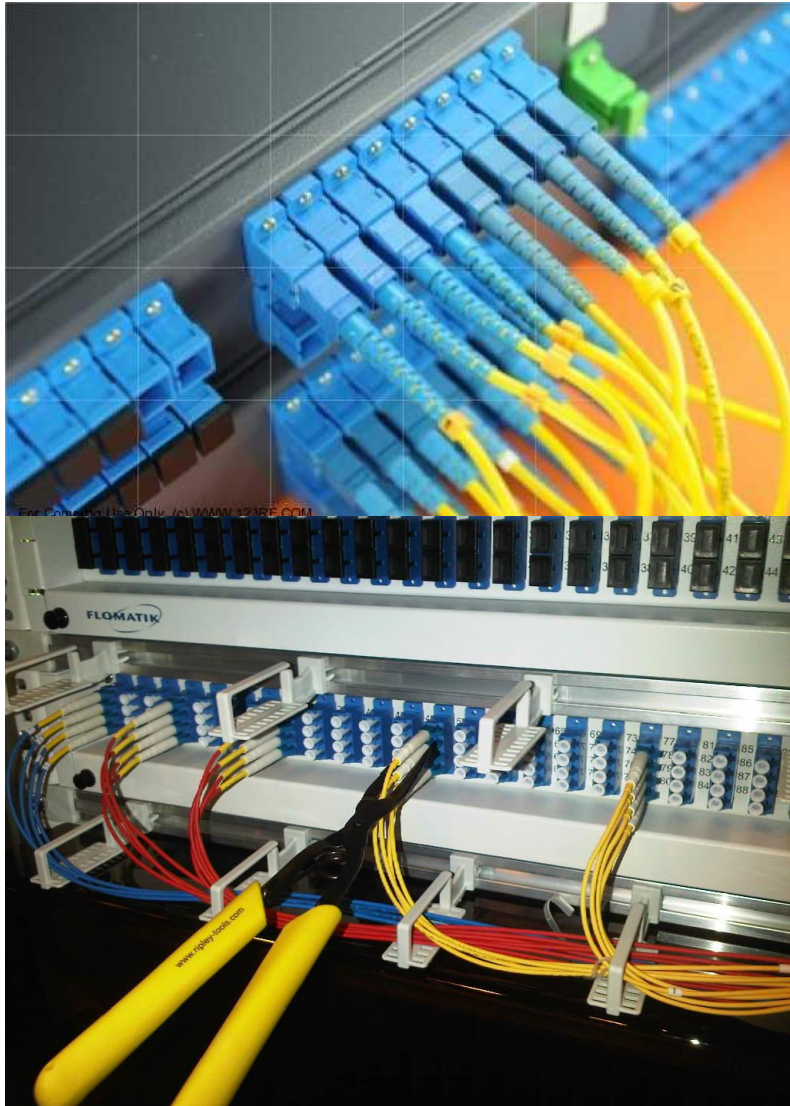
# Result

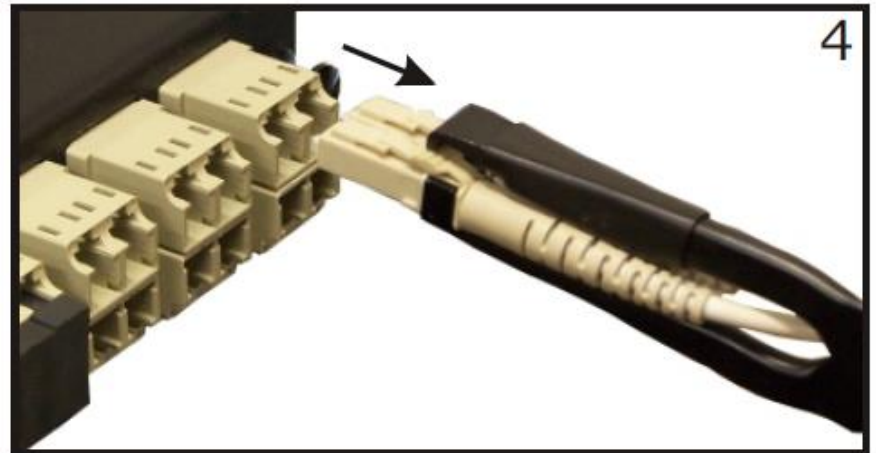
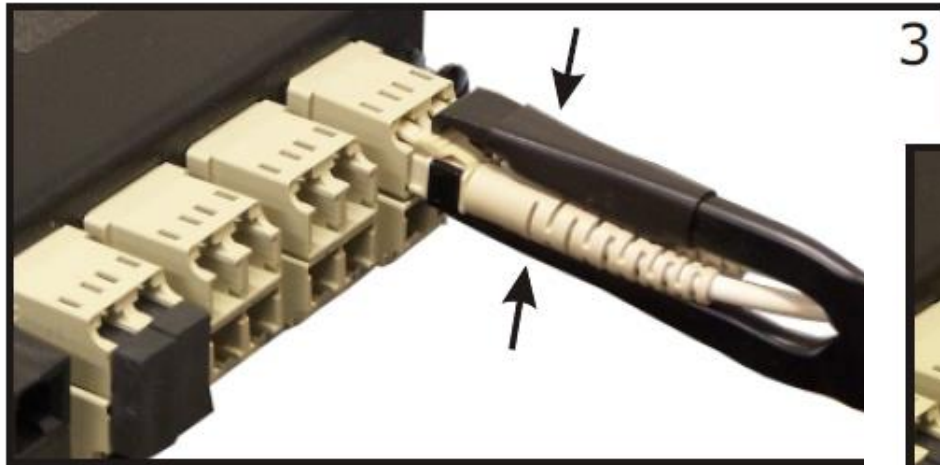


- The steel tape armored opened and can be cut with a small headed steel cutter.
- Size over tape after opening is app. 2,6 – 3 mm

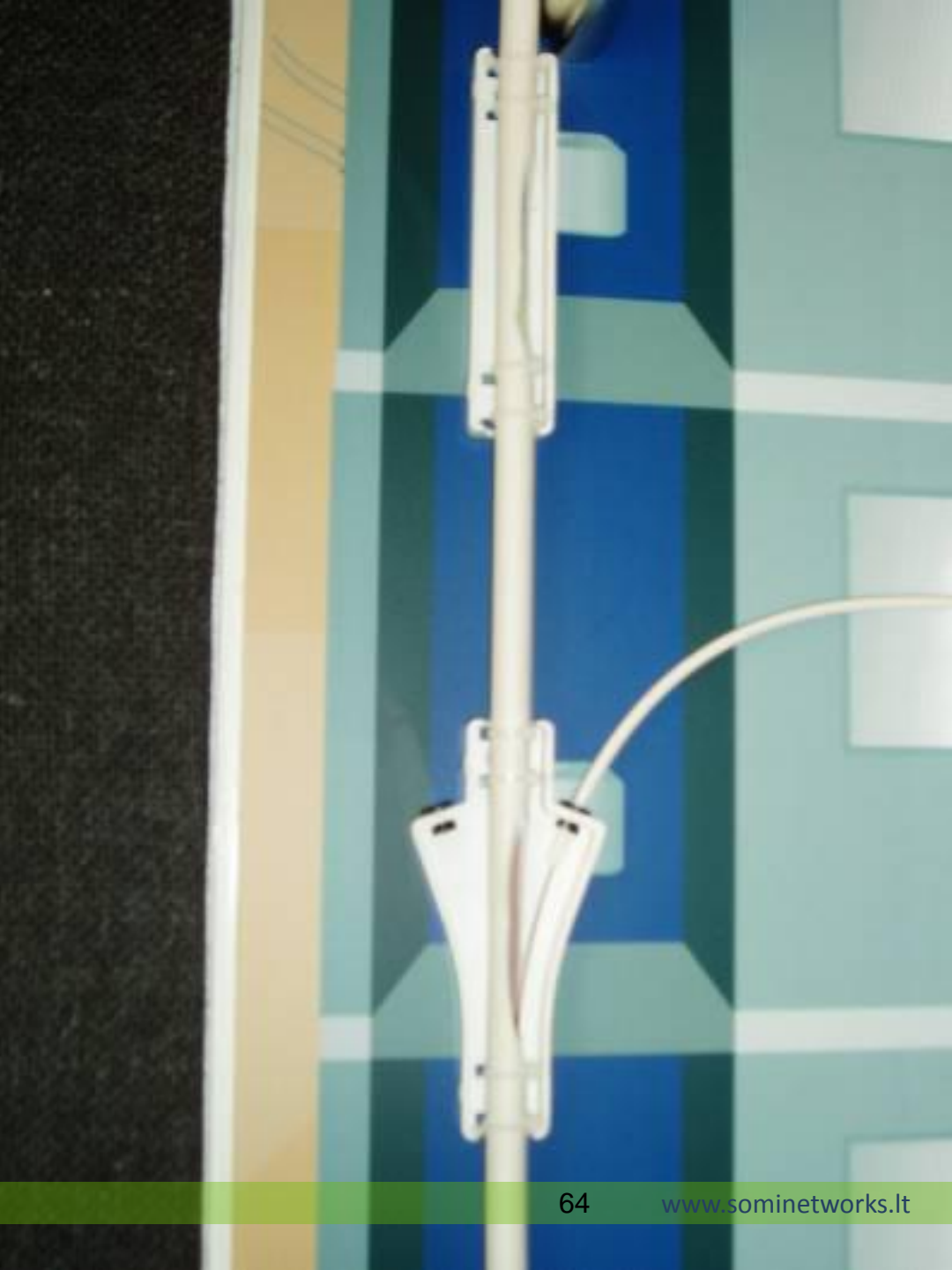


# IET - Insertion extraction tool





# Riser Cable application (micro sheath cable)





# Riser Cable - Break Out Tool (RBT)

[YouTube Video](#)



[YouTube Video](#)

# RBT application



# More info on manufacturers sites:



[www.ripley-tools.com](http://www.ripley-tools.com)



<http://www.youtube.com/user/RipleyTool>

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