

Virgin Media Taster Training days

Wythenshawe November 13th 2013



Ger Segers

Sales and Marketing Europe



- Proudly Designing, Manufacturing and Assembling Quality Cable Preparation Tools In Connecticut Since 1936
- Our three brands
 - **Cablematic:** CATV, Telecommunications, Wireless, Satellite
 - **Miller:** Fiber Optic, Voice/Data and Telecommunications
 - **Utility Tool:** Splice and Terminate for Electrical Transmission and Distribution



What are we talking about ?

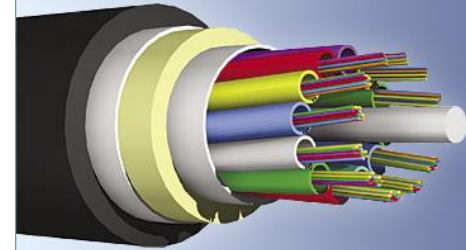


What are we talking about

Armoured outdoor cable



ADSS



Simplex



duplex



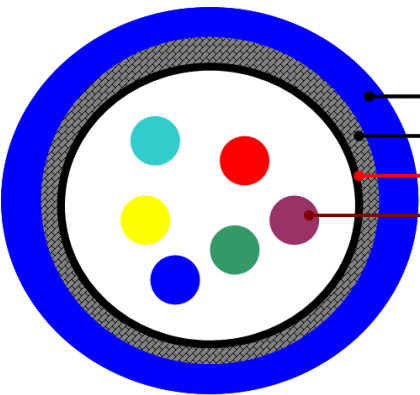
Loose Tube Mini Cable



Breakout cable

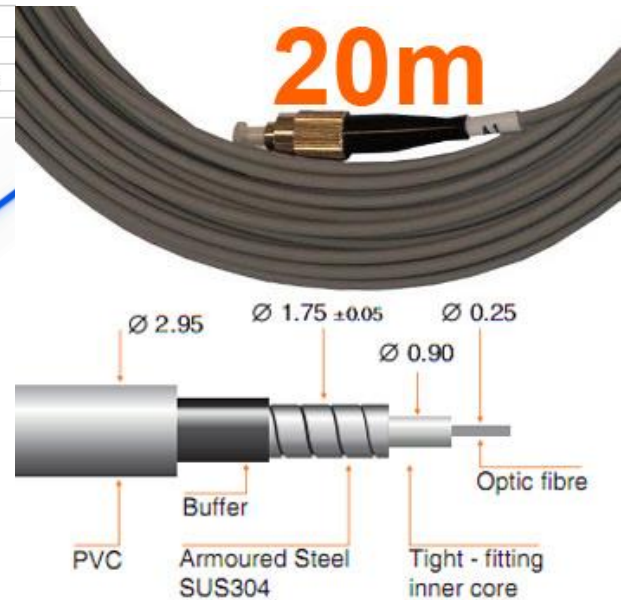
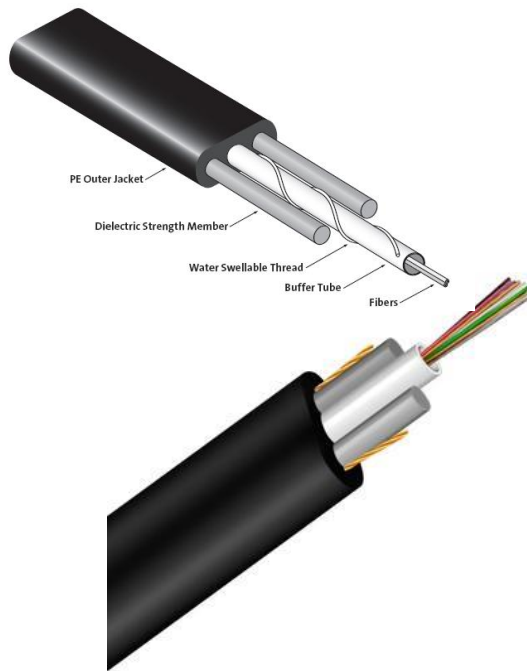
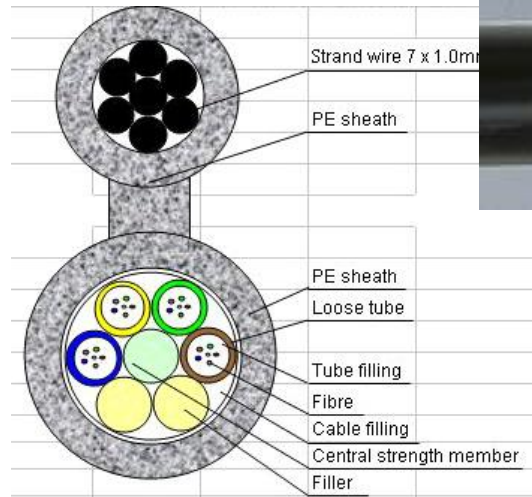
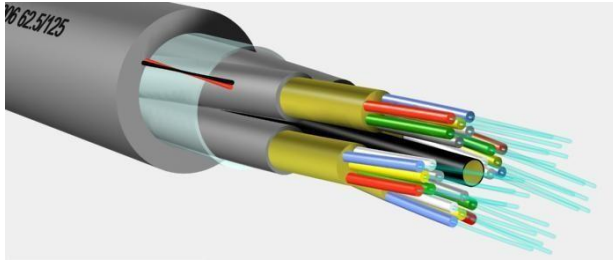


DAC cable (5-6 mm)

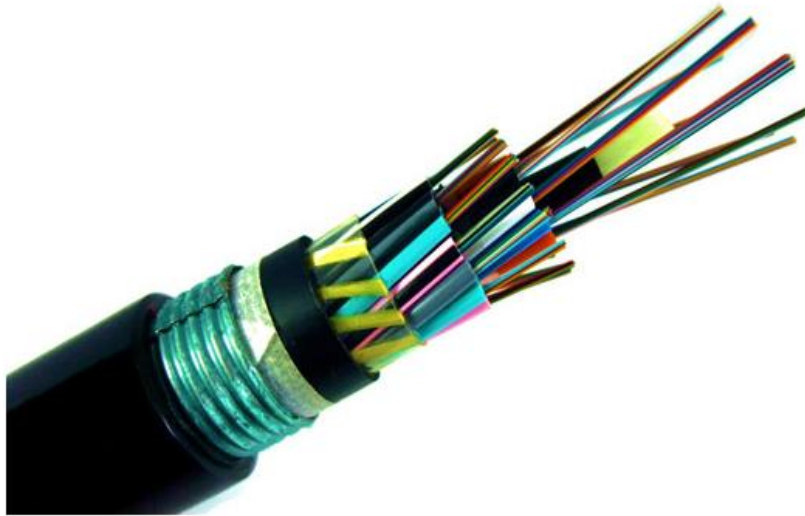


- Jacket
- swelling tape
- unitube
- Fiber

What are we talking about?



Remove jacket and armoring

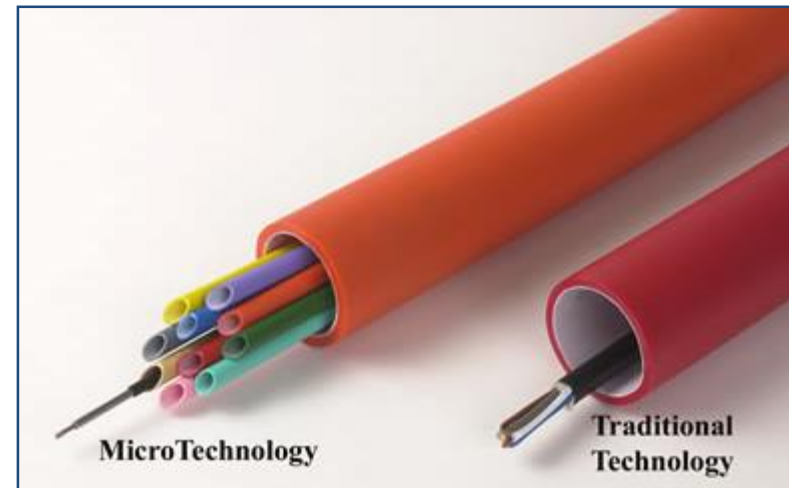


Lever to
Flip the blade over 90°

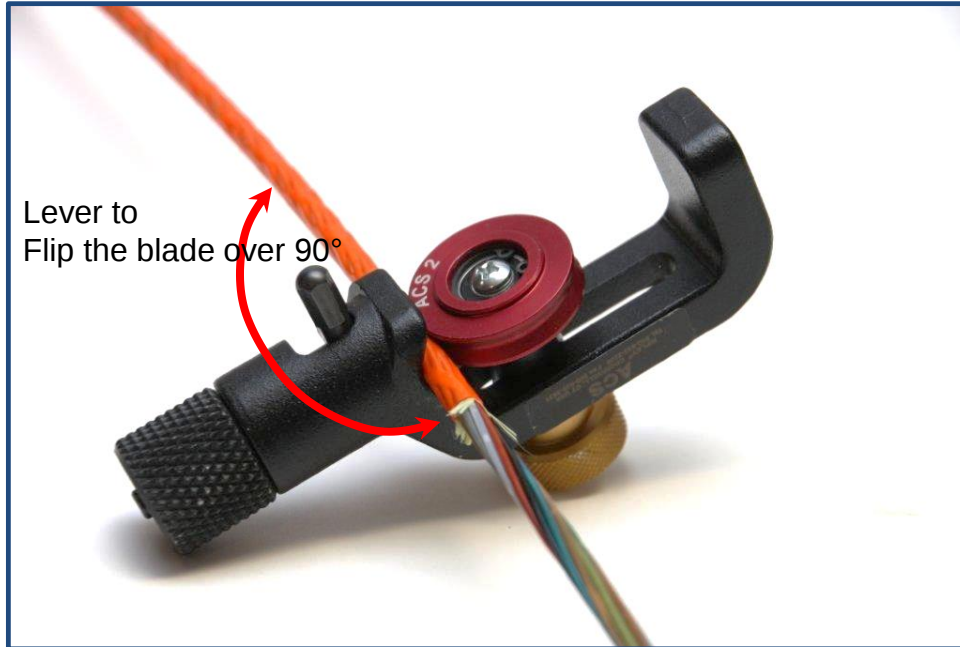


- For slitting corrugated copper, steel or aluminium
- Slits PE and armoring in one operation
- Range: 8 – 28,6 mm
- Cutting depth: max 5,5 mm

Examples



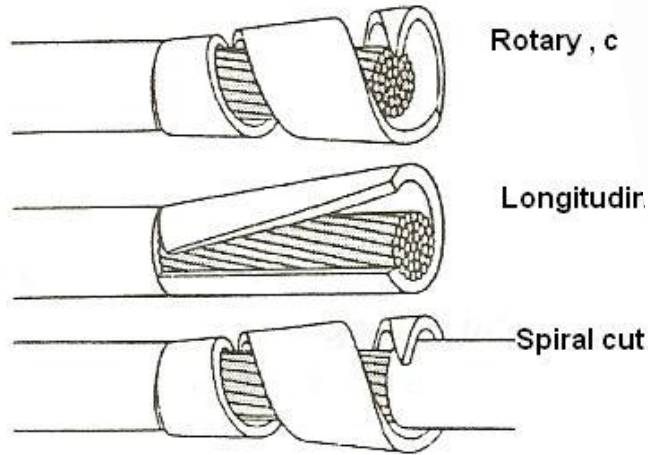
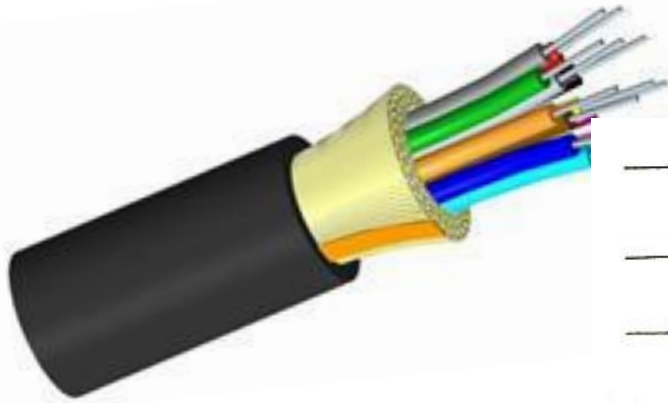
Microcable Jacket Removal



Result of Mid Spanning



- For slitting Fiber Micro cable (**circumferential + longitudinal**)
- Range: 4-10 mm Cable (thin jackets)
- For end-strip & Window-Cut



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



Cut Kevlar / aramid yarns

- Fine serration
- Long jaws
- Ergonomic handles

- Fine serration
- Short jaws
- Springs

KS-1



FOKC



86 1/2 SF



KC-699

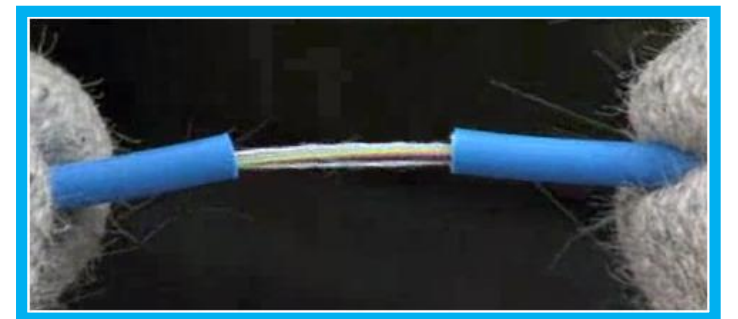
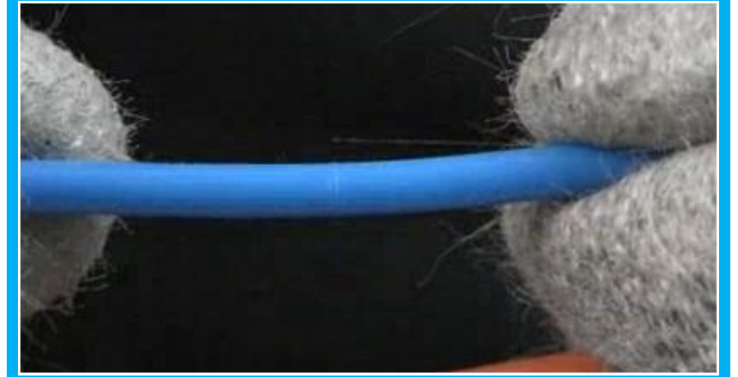
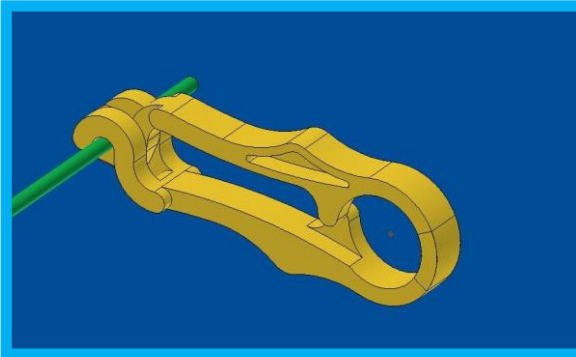
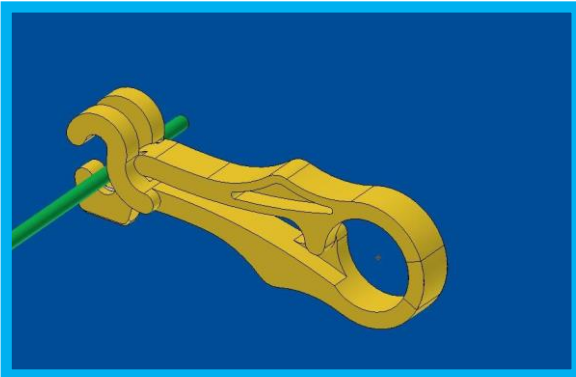
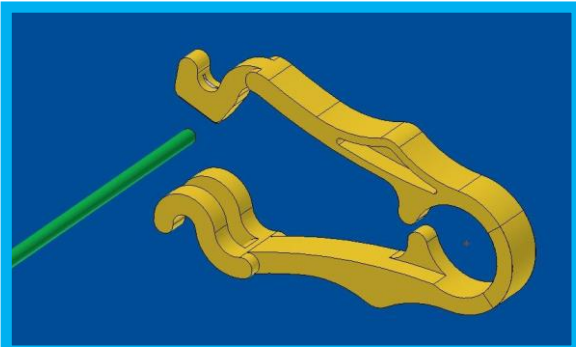




Range 1.6 – 6.0 mm tubes



Scoring the tube

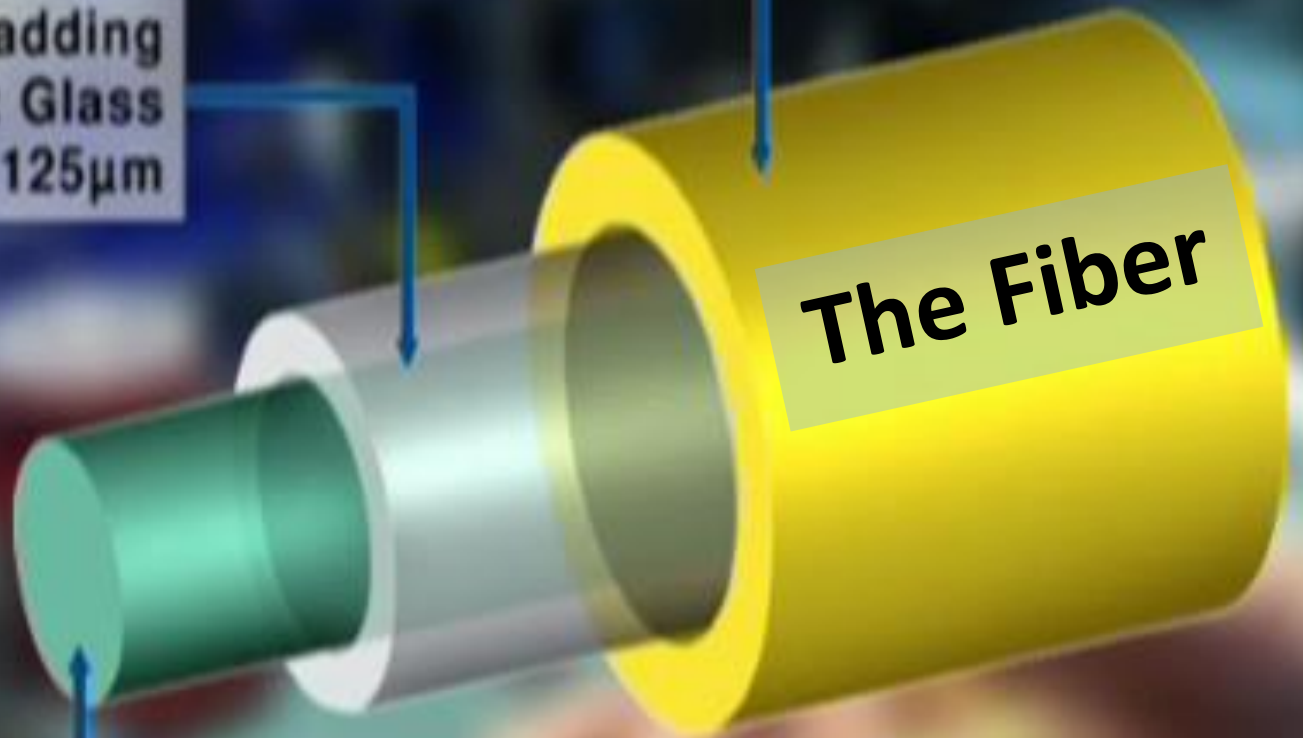


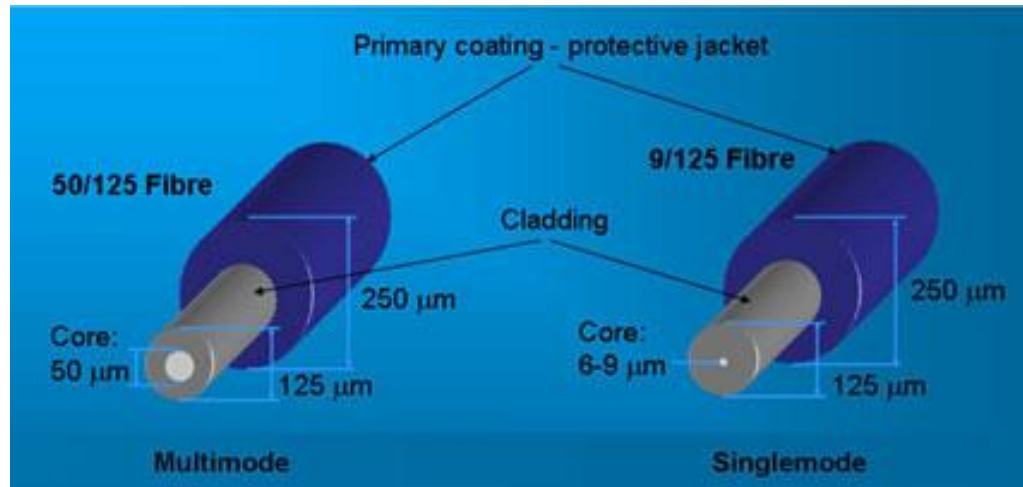
Fiber Coating
Material: Teflon, rubber, plastic, etc
Size: 250 to 900 μ m

Fiber Cladding
Material: Glass
Size: 125 μ m

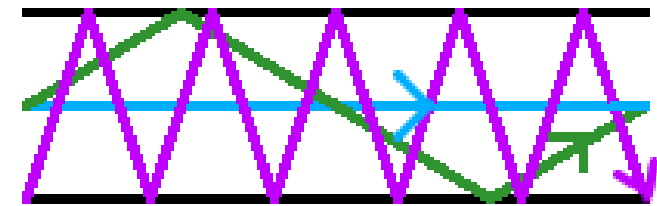
Fiber Core
Material: Glass
Size: From 8.6
to 62.5 μ m

The Fiber





Single-mode fiber



Multi-mode fiber

Single mode:

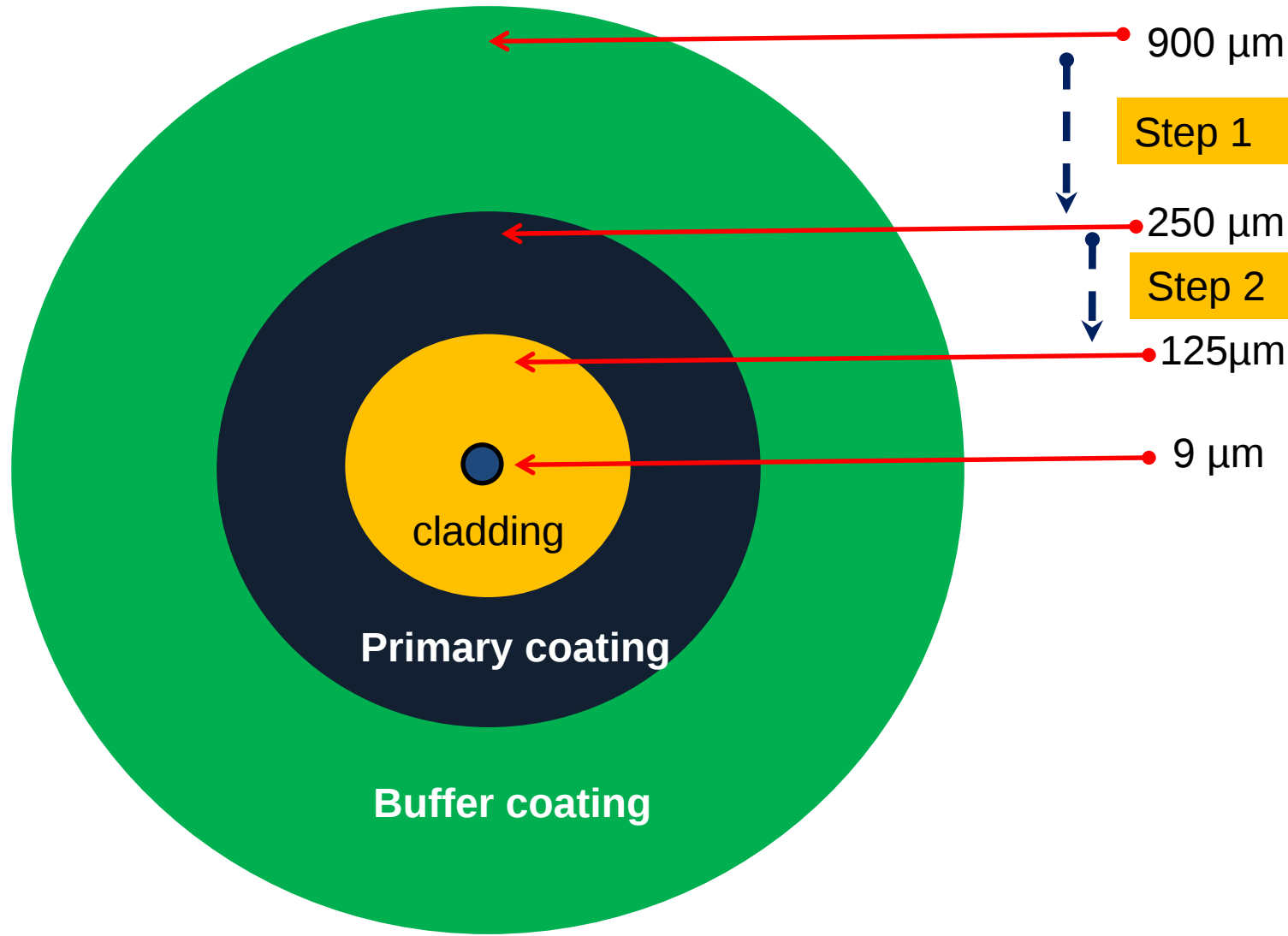
- 8 – 10 μm
- Travel down the middle
- Cable TV, Internet, Telephone
- Long distances

Multi mode:

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

Strip the Fiber





FO-103-S



FO-103-T



CFS-2

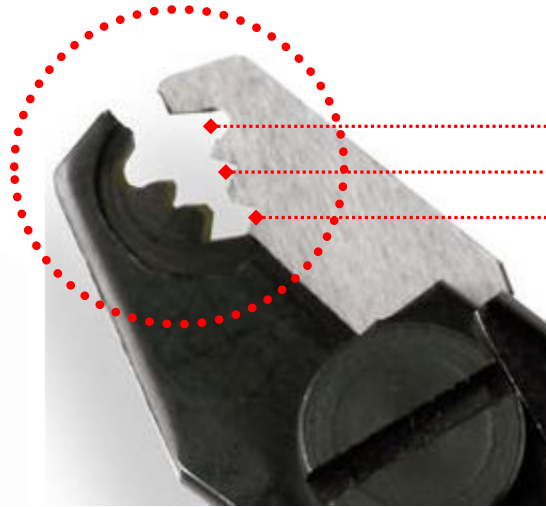
CFS-2-900



No- Nik



3 hole stripper



1. Jacket removal 2-3mm
2. 900 - 250 μ m
3. 250 - 125 μ m

FO-103-T-250J

D = Dual hole

T = Tri hole

J = Jacket

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

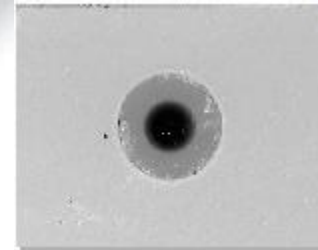


- Check surface
- Check pigtail

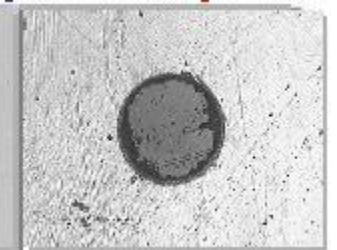


FMIM 200x
FMIM 400x

Oblique illumination



coaxial illumination



LC Adapter



- 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

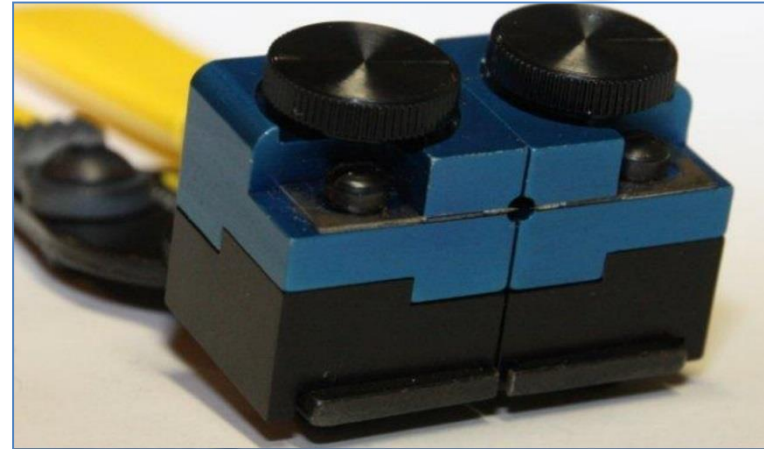
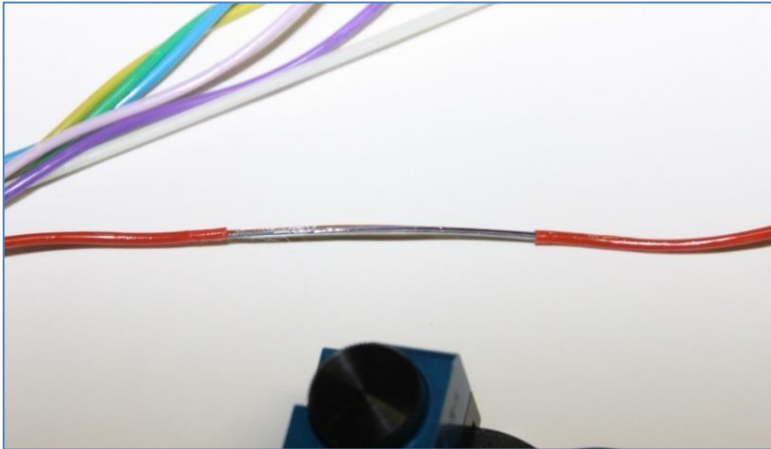


Mid Span Access Tools

(MSAT)

Complete kit with 5 different heads:

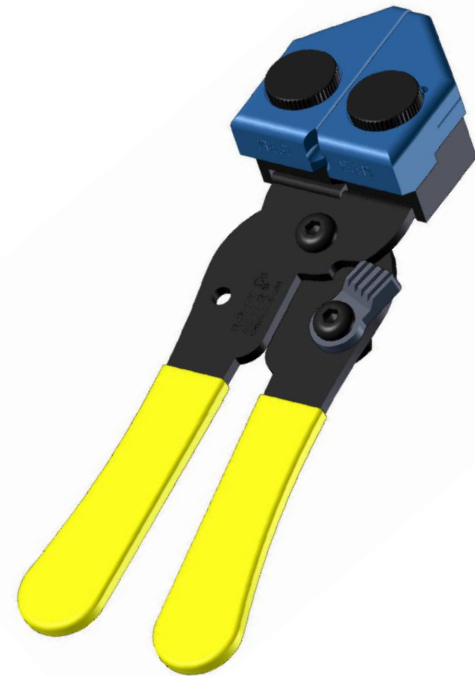
- Size 1: 1.8 mm (1.6 – 1.8)
- Size 2: 2.2 mm (2.0 – 2.2)
- Size 3: 2.3 mm (2.3 – 2.5)
- Size 4: 3.0 mm (2.7 – 3.0)
- Size 5: 3.3 mm (3.1 – 3.3)



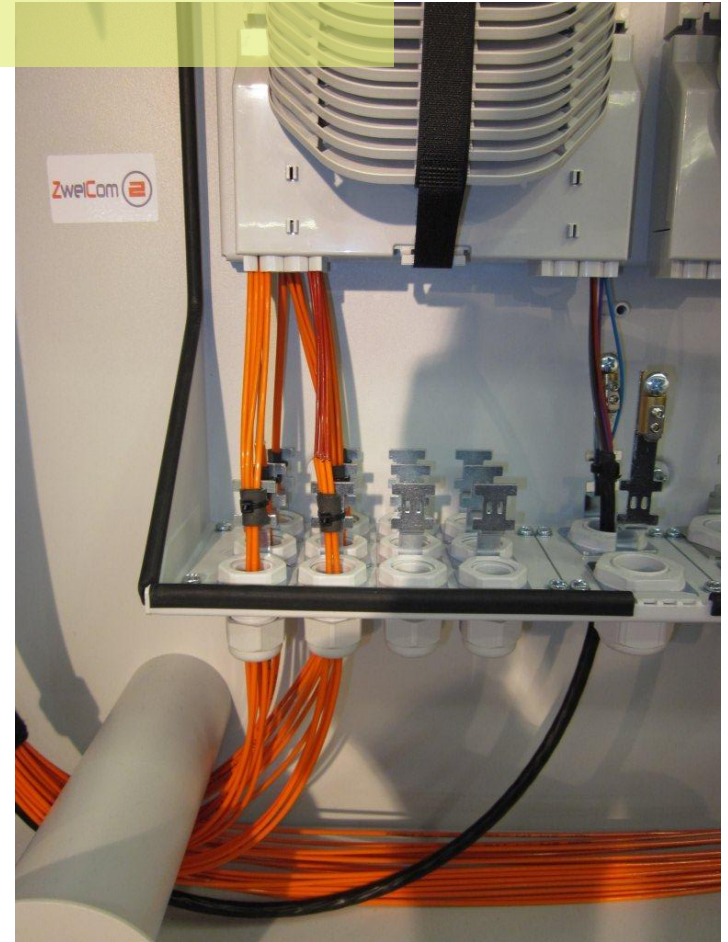


Cable entry in a POP

Jacket of cable has to be removed over a longer length (up to 6 meters)



2.5 mm & 4.0 mm cable (nylon jacket)



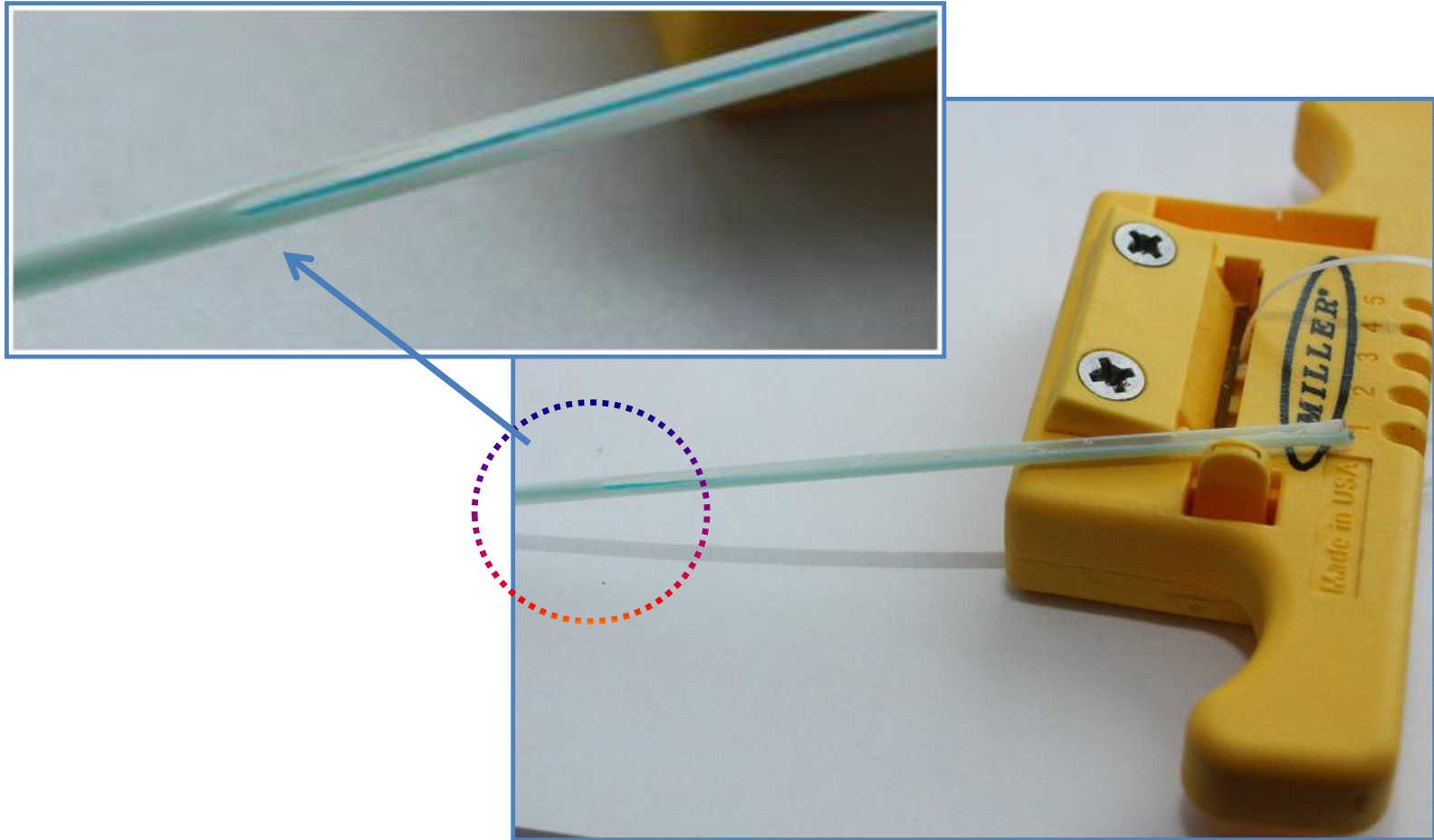
MSAT-5 (5 slots)

Mid Span Access Tool for 5 sizes



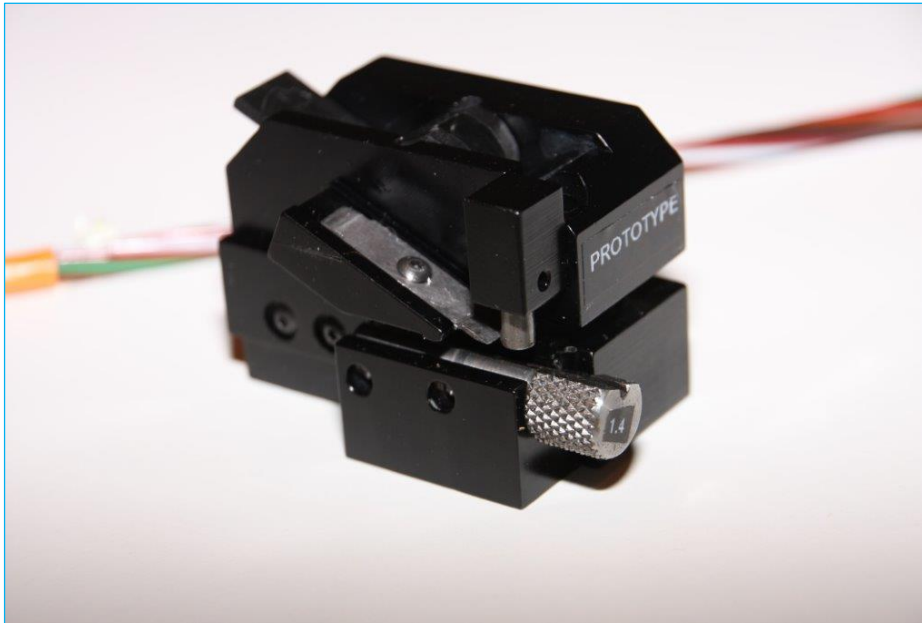
Slots

1.9 | 2.2 | 2.5 | 2.7 | 3 mm



FTTH:

- Loose Tube Micro duct cables smaller
- Coating of fiber changing from 250 μ m to 200 μ m
- Tube sizes are getting smaller 1.2mm -1.6 mm
- Mid-Spanning is needed

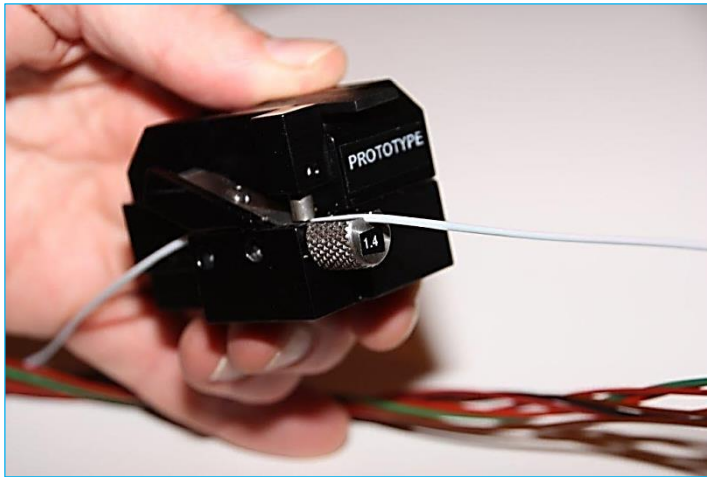


144 SM : OD 7mm

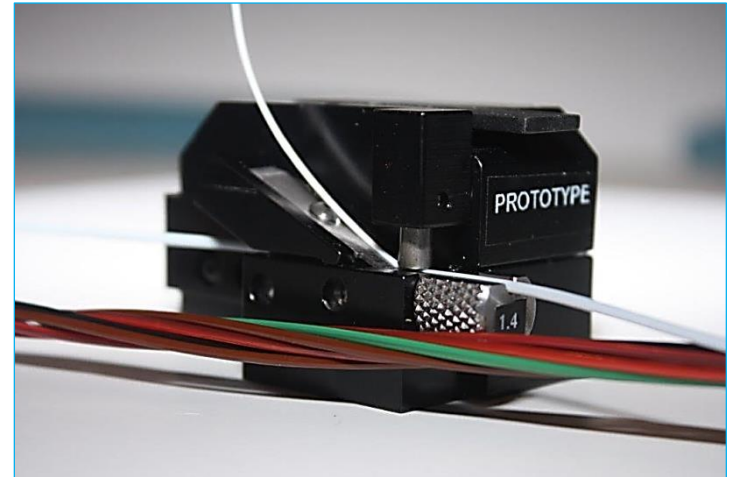
Changeable inserts



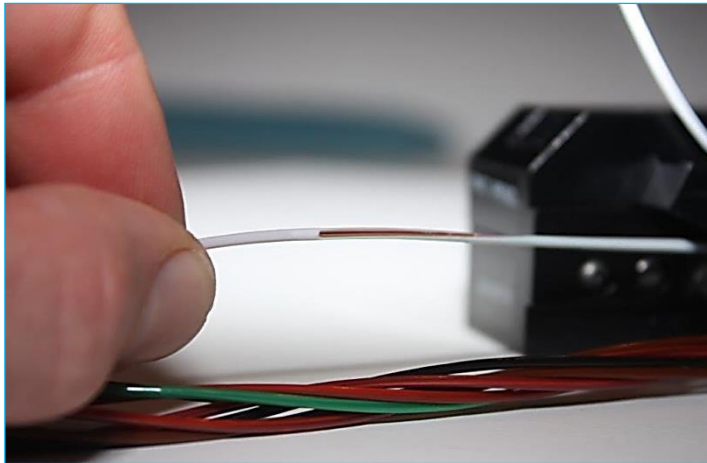
1. Insert tube, close the tool, move tool forward



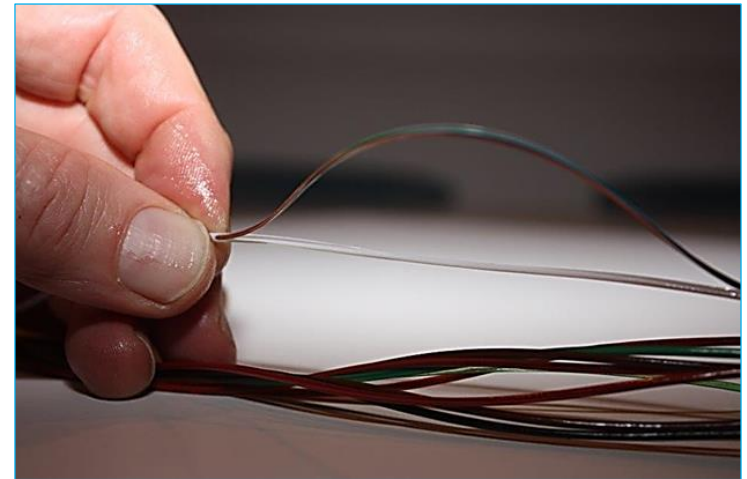
2. Start shaving the tube



3. Result



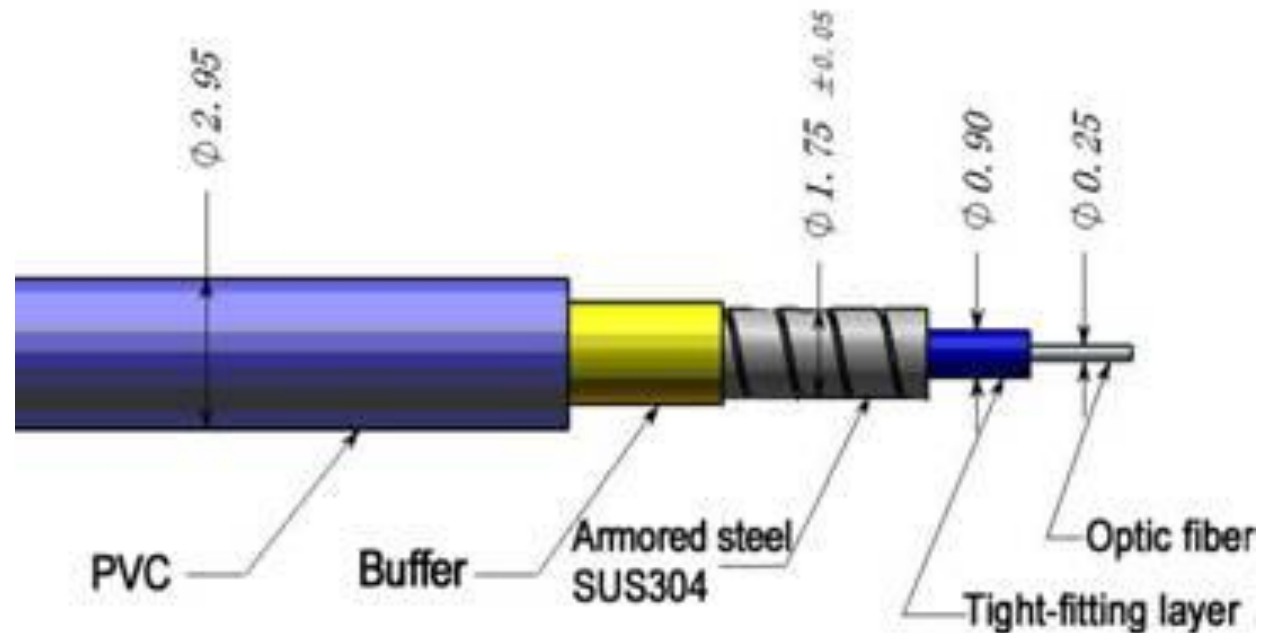
4. Access to the fibers





Armored fiber cable

- Converts all universal IF bands into 1 optical signal
 - High Horizontal
 - High Vertical
 - Low Horizontal
 - Low Vertical
- Optical output 7dBm
- Capable of driving 32 Fiber MDU converters located within 10km area



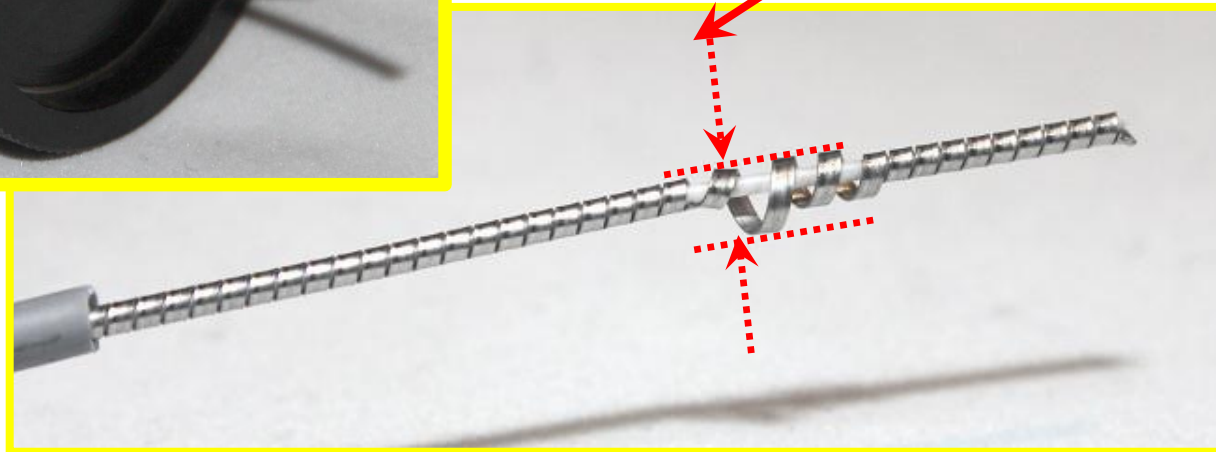


- Heat treated steel for long life
- 2 separate parts (discs) , screw clamps to hold the cable in the tool
- Size app. 3,8 cm

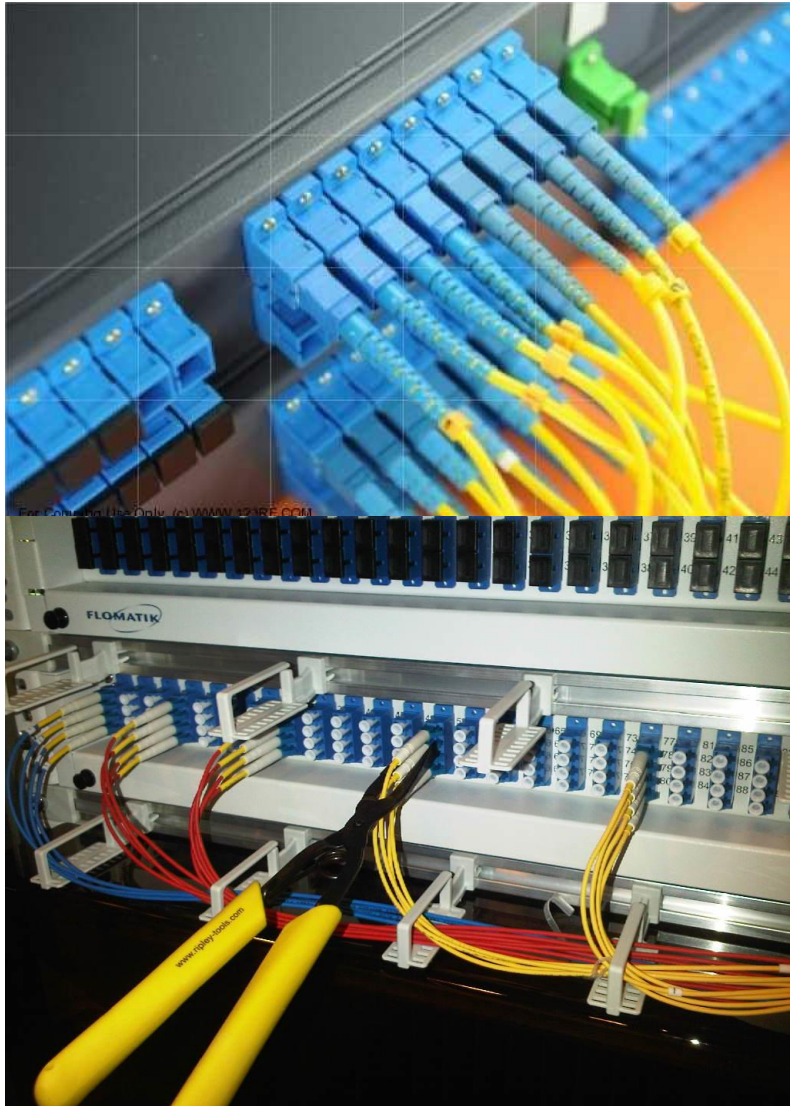
Result



- 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



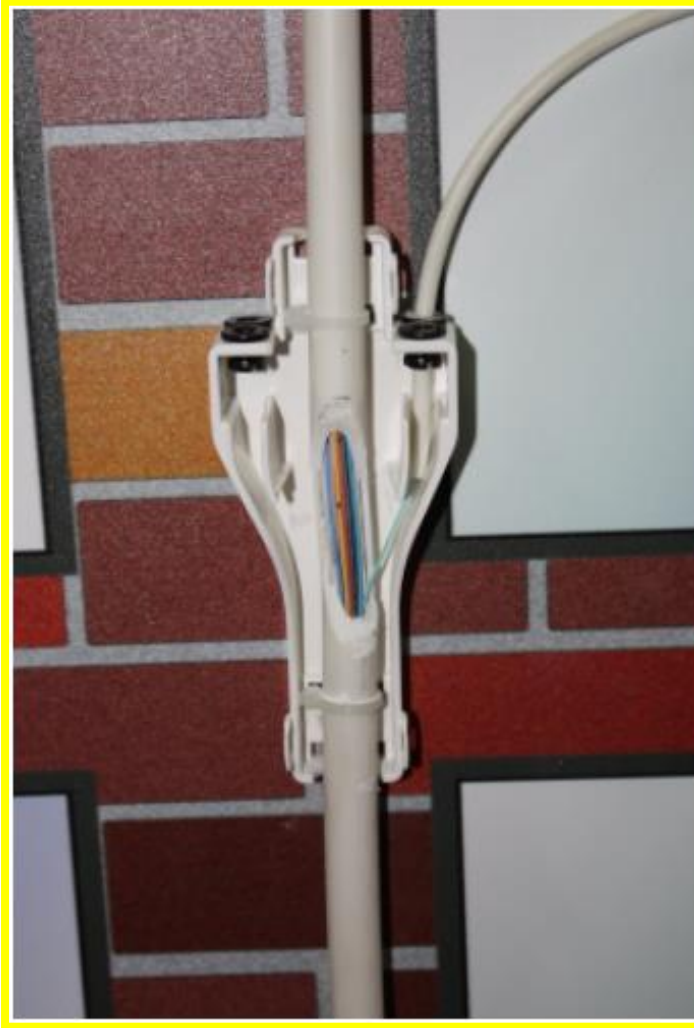
IET - Insertion extraction tool



Riser Cable application (micro sheath cable)



Riser Cable - Break Out Tool (RBT)









Cutters



Hard Line
Preparation tools





Cutting w/ Side Cutter



Rock Back and Forth



Reshaping Bad Cut



Concentric Round Cut



- Recommended for flooded cable
- JST QR & CST QR

(JST snaps on JCST)

Designed for Quantum Reach



- Recommended for **NON** flooded cable
- 1 step operation



Drop preparation tools



LDT



UDT



SDT



LDT mini

DDT



RG 59/6

RG 11





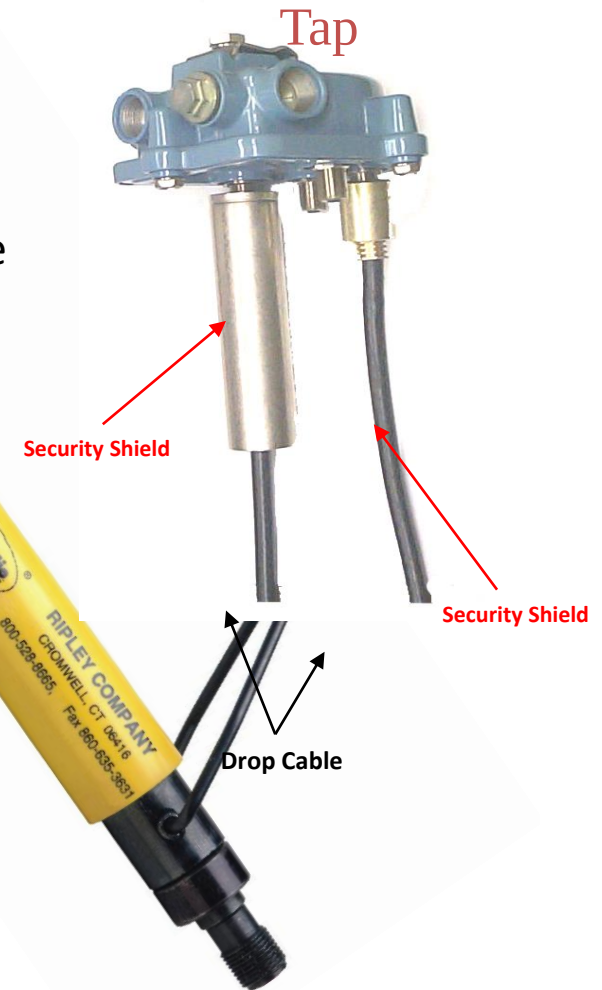
- Use always a TW when fixing F-connectors.
 - Optimum connection
 - No deformation of material caused by too high torque
 - Guarantees screening

7/16 inch (F)

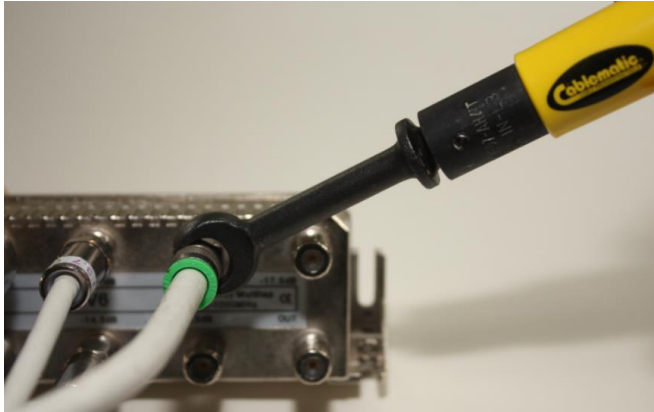
- TW 207 2,26 Nm
- TW 307 3.39 Nm
- TW 407 4,51 Nm

½ inch

- TW 208 2,26 Nm
- TW 308 3.39 Nm
- TW 408 4,51 Nm



Torque Wrenches





Torque Wrench with torque in the handle

- 1,1 Nm | 2,5 Nm | 3,4 Nm available
- shafts changeable: 20 cm and 10 cm shafts



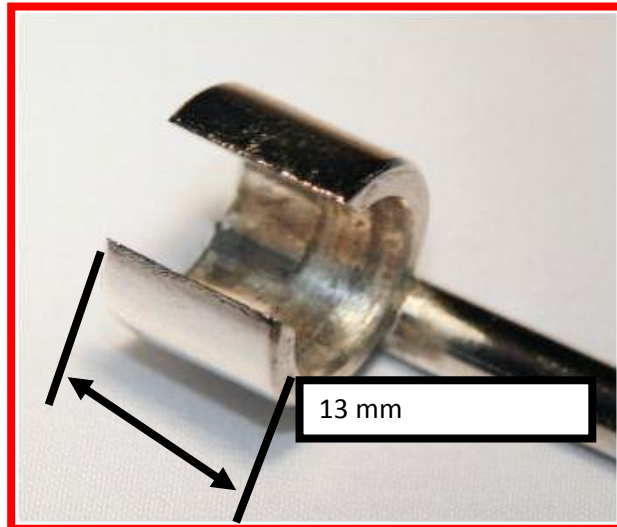
- Torque value printed on the handle
- Shafts are changeable (long & short)



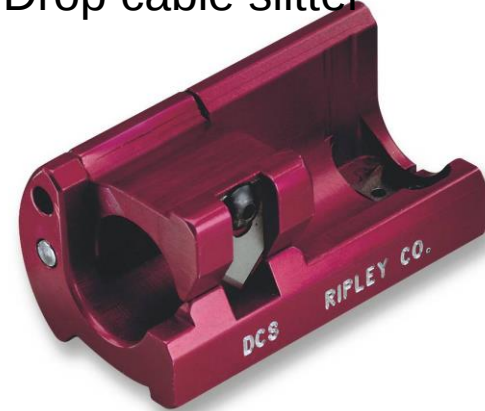
Smaller head

Extra nut for TW

RTF-716-N



DCS: Drop cable splitter



CR: Hex Crimp tools



LTT-4 / LTT-7

Locking termination tool



MWSS

Messenger Web Slitter / Shaver





Ways to promote the tools !





www.ripley-tools.com



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

Thank you



www.ripley-tools.com



24-feb-15

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