

# TOOLS AND ACCESSORIES

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# 09

Nowadays, optical fibres as the transmission medium are widely used in TELECOM and data transmission applications. A vast amount of fibres in modern networks mean the need for reliable and efficient tools for optical cable and fibre preparation, fibre splicing, connector cleaning etc. Regardless of the experience and knowledge of the installers, the right tools and accessories are required to perform the fibre optic cable installation correctly.

Appropriate tools help the installers to work safely and efficiently. This saves time and money and allows to build a reliable fibre optic network. Regardless of the size of the network the use of proper tools for installation and maintenance is a worthwhile investment.

With many years of experience in the field of fibre optics, OPTOMER offers support in selection of the tools that best meet the customer needs. This section presents fusion splicers, video microscopes as well as tools and accessories necessary for fibre cables preparation, installation and maintenance.

## FITEL FUSION SPLICER



*Fitel S179 Fusion Splicer*

### FEATURES:

- effective, quick and reliable splicing
- easy to use and transport
- short splicing time and quick splice protector shrinking
- compatible with Splice-On-Connectors (SOC)
- new ways of communication (NFC)
- solid housing construction
- 4.3" touch LCD screen
- illuminating lamps: 3 top and 1 bottom
- easy cleaning and maintenance of lenses
- high resistance against environmental factors, such as: vibrations, falls, water, dust

### EQUIPMENT:

- Fusion Splicer
- transportation case
- spare electrodes
- power supply
- cooling plate
- electrodes cleaning tool
- cleaning brush
- battery set
- tool case
- installation instruction
- short installation manual
- 2 holder set

### TECHNICAL SPECIFICATIONS:

|                                       | S179   | S153  | <b>NEW:</b><br>NJ001   |
|---------------------------------------|--|---|--|
| centering                             | active to core   | active to cladding  | passive to cladding  |
| method description                    | cores detection and matching (regardless of core centricities in the cladding) | cladding detection and core matching (assuming the cores are located centrally in the cladding) | "fixed v-groove" - system of v-grooves working like a viewfinder, enabling to match cladding to cladding |
| Average splice attenuation            | 0,02 dB  | 0,04 dB   | 0,05 dB  |
| Splicing time [s]                     | 9  | 9   | 13   |
| Number of splices per one battery set | Up to 230  | Up to 200   | Up to 100  |
| Splice protector oven                 |  | YES   |  |
| SOC connector splicing                |  | YES   |  |
| Replaceable holders                   |  | YES   |  |
| Universal holder                      |  | YES   |  |
| Lighting                              | Top: 3 LEDs; Bottom: 1 LED   | Top: 1 LED  | Top: 3 LEDs  |
| Replaceable v-groove                  | YES  | NO  | YES  |
| Touch screen                          | YES  |   | NO   |



*FITEL S153 V2 Fusion Splicer*



*Fitel Ninja NJ001 Fusion Splicer*

### ORDERING:

FITEL S179 – Fitel fibre optic splicer with active core centering



## FUJIKURA 70S FUSION SPLICER

### FEATURES:

- successor of FSM-50S and FSM-60S
- reduced to 6 s splicing time
- reduced to 9 s splice protector (60mm) heating time
- ergonomic design
- core alignment
- 2 movable v-grooves
- PAS (Profile Alignment System)
- splicing of non-aligned fibres
- splicing of fibres with different mode field diameters
- real time electric arc auto-calibration
- suitable for splicing new fibers and field mountable connectors (FuseConnect)
- ready to use after opening transport case

### EQUIPMENT:

- splicer
- hard transport case
- Power supply cord
- power supply
- PC cable
- screwdriver
- tweezers
- alcohol dispenser
- spare electrodes
- short user manual
- software

### TECHNICAL SPECIFICATIONS:

|  |                                    |
|--|------------------------------------|
| power feeding                                  | mains supply or dedicated battery  |
| dimensions width/height/depth [mm]/weight [kg] | 146/159/150/2,7 (with the battery) |

### ORDERING:

FUJIKURA 70S - Fusion Splicer FUJIKURA



*Fujikura 70S Fusion Splicer*



*Transport case*



## FITEL S326 PRECISION FIBRE CLEAVER

NEW



*Fitel S326 Fibre Cleaver*

### FEATURES:

- one - step fibre cutting
- handy and multitasking tool
- easy to use
- durable housing
- wide-opening lid
- high quality cutting blade
- light (approx. 30% lighter than previous model)
- high capacity container for cut fibers
- life time of cutting blade - 48000 cuts

### EQUIPMENT:

- fibre cleaver
- universal fibre holder
- two standard containers for cut fibres
- large capacity container for cut fibres
- hard housing
- allen key
- user manual

## FUJIKURA CT-30 PRECISION FIBRE CLEAVER

NEW



*Fujikura CT-30 Fibre Cleaver*

### FEATURES:

- small size, light and handy
- cuts up to 12 different types of fibre
- mechanically controlled cutting blade speed
- the same cutting blade as for the CT-20 series
- 16 rotational positions and 3 heights
- cutting blade lifetime up to 48000 cuts

### EQUIPMENT:

- fibre cleaver
- compact container for cut fibres
- large storage contained for cut fibres
- side cover
- transport case
- allen key
- user manual

## OFS-300 FIBRE OPTIC CONNECTOR INSPECTION MICROSCOPE

### FEATURES:

- universal adapter for 2,5 mm ferrules
- one set of batteries ensures 60 h of uninterrupted operation
- dedicated holder and user manual included
- OFS-300 are available in two versions, 200x or 400x magnification

### TECHNICAL SPECIFICATIONS:

|                            | OFS-300-200C            | OFS-300-400C |
|----------------------------|-------------------------|--------------|
| magnification              | 200                     | 400          |
| protective filter          |                         | Scott KG3    |
| operating temperature [°C] |                         | 0 ~ +50      |
| storing temperature [°C]   |                         | -20 ~ +50    |
| power supply               | 2 AA alkaline batteries |              |
| weight [kg]                | 0,67                    |              |
| dimensions [mm]            | 130/50/200              |              |

### ORDERING:

OFS-300-400C – inspection microscope, 400x times magnification



*OFS-300 Fibre Optic Connector Inspection Microscope*

## FIS FIBRE OPTIC CONNECTOR INSPECTION MICROSCOPE

### FEATURES:

- light and ergonomic body
- white LED provides coaxial illumination
- two 3 V lithium batteries ensure 50 h of continuous operation
- 200x or 400x magnification
- includes universal adapter for 2.5 mm ferrules (other adapter types are available separately)
- very convenient (soft grip and high reliability)

### TECHNICAL SPECIFICATIONS:

|                       |                         |
|-----------------------|-------------------------|
| magnification         | 200x or 400x            |
| power supply          | 2 x LR 14 1,5 V battery |
| ferrule diameter [mm] | 2,5                     |

### ORDERING:

FIS-400 – FIS microscope with 400x times magnification



*FIS-400 Fibre Optic Connector Inspection Microscope*

## EASY GET VIDEO INSPECTION MICROSCOPE



*EASY GET Video Inspection Microscope*

### FEATURES:

- easy to use
- high quality vision
- light, small size, handy
- available versions with 200x and 400x zoom
- wide range of adapters for different connector types
- 8 hours battery lifetime
- possibility of connecting to external monitor
- improved data acquisition and updated software

### CONFIGURATIONS:

- inspection set with tools for cleaning connectors in a transport case
- inspection set

### TECHNICAL SPECIFICATIONS:

|                                    |                        |
|------------------------------------|------------------------|
| mains power supply                 | 230V AC/12V DC adapter |
| battery supply                     | built-in 12V battery   |
| battery lifetime                   | 8 hours                |
| monitor                            | 3,5" TFT LCD           |
| dimensions width/height/depth [mm] | 205/94/25              |
| weight [kg]                        | 1,6                    |

## CI-1100, DI-1000 VIDEO INSPECTION MICROSCOPES



*CI-1100 Video Inspection Microscope*

### FEATURES:

- handy inspector of fibre optic adapters and ports
- safe inspection of active connectors
- detectable resolution to 0.5  $\mu\text{m}$  (corresponds to 400x magnification)

### CONFIGURATIONS:

- CI-1100 - complete fibre optic field inspector; probe with LCD screen and battery allows for comfortable field operation under any environmental condition
- DI-1000 - USB probe for PC, laptop or OTDR

### TECHNICAL SPECIFICATIONS:

|               | CI-1100   | DI-1000                               |
|---------------|---|---------------------------------------|
| power supply  | built-in 9,6V battery or power grid supply  | USB port                              |
| field of view | 425 $\mu\text{m}$ x 320 $\mu\text{m}$ (standard)<br>425 $\mu\text{m}$ x 320 $\mu\text{m}$ (standard)<br>640 $\mu\text{m}$ x 480 $\mu\text{m}$ (lower magnification) | 400 $\mu\text{m}$ x 300 $\mu\text{m}$ |
| resolution    | 0,5 $\mu\text{m}$   |                                       |
| light source  | blue LED  |                                       |
| dimensions    | probe: diameter 35 mm, length 175 mm<br>monitor: 3,5" TFT-LCD: 105 mm / 90 mm / 45 mm (closed)  | diameter 35 mm<br>length 175 mm       |
| weight [g]    | sonda: 200, monitor: 255 (without battery)  | 200                                   |

### ORDERING:

CI-1100 - video inspection microscope with LCD screen



*DI-1000 Video Inspection Microscope*



## WMOKS FIBRE OPTIC CABLE INSTALLATION KIT

### FEATURES:

- set of necessary tools for control and cleaning optical fibre connectors in optical networks
- essential accessories used by fibre optic networks servicing teams

### EQUIPPED WITH:

- outdoor cable jacket removing knife AM-1
- outdoor cable jacket removing knife AM-2
- loose tube coax stripper IDEAL 45-163
- loose tube coax stripper IDEAL 45-164
- loose tube stripper with adjustable blades JOKARI PWS-003
- buffer tube (0.9 mm) stripper CK-0.5
- primary coating stripper (250 µm) Miller fo 103-s
- primary coating stripper (250 µm) and outer sheath stripper CFS-2
- fibre primary coating solvent (chemical stripper)
- indoor cable jacket stripper
- side cutting nippers
- kevlar cutters Fiskars 9874
- cleaning tool for ferrul front face CZZO
- canned air
- canned isopropyl alcohol
- universal scissors
- lint free cleaning wipes for fibre optic connectors cleaning
- heat gun steinel
- reflecting nozzle for heat gun
- self adhesive insulating tape
- measure tape 5 m
- knife
- cable tie tensioning gun
- alcohol dispenser for tissue moistening
- case

Specifications subject to change without notice. Modifications shall not affect the functionality.



*WMOKS Fibre Optic Cable Installation Kit*

## WZKCZM FIELD FIBRE OPTIC CLEANING TOOL KIT

### FEATURES:

- set of necessary tools for control and cleaning optical fibre connectors in optical networks
- essential accessories used by fibre optic networks servicing teams

### EQUIPPED WITH:

- fibre optic connector inspection microscope (400x)
- fibre optic connector cleaner CZZO
- canned, compressed air
- canned isopropyl alcohol
- lint free wipes
- ferrule endface cleaning brush
- adapter mating sleeve cleaning brush
- case

Specifications subject to change without notice. Modifications shall not affect the functionality.

### ORDERING:

WZKCZM – travel case kit for maintenance and cleanliness control of fibre optic connectors with microscope



*WZKCZM Fibre Optic Cleaning Tool Kit*

TELECOM

ACCESS





## PORTABLE SET OF TOOLS TOOLSET PRO

NEW



Portable set of tools TOOLSET PRO

## FEATURES:

- made of high quality material (Codura 600)
- highly resistant to abrasion
- solid construction based on metal frame
- designed to make installer's work as easy as possible
- contains all necessary tools for fibre optic cable preparation

## EQUIPPED WITH:

- strippers for 250 um primary coated and 900 um buffered fibres
- visual fault locator (650um light source, 10km approximate range)
- Kevlar scissors
- cable knife, suitable for cable with 8-28mm outer diameter, no hook blade
- cable cutter
- precision tongs, semicircular, oblique
- lint free wipes 280 pcs
- alcohol dispenser (pump with isopropyl alcohol for cleaning optical fibres)
- tweezers
- screwdrivers set standard - 4pcs
- knife for tubes
- protective glasses
- cable ties
- 3m tape measure
- splice protectors - 50pcs
- assembly knife

TELECOM

ACCESS



ONE-CLICK-CLEANER

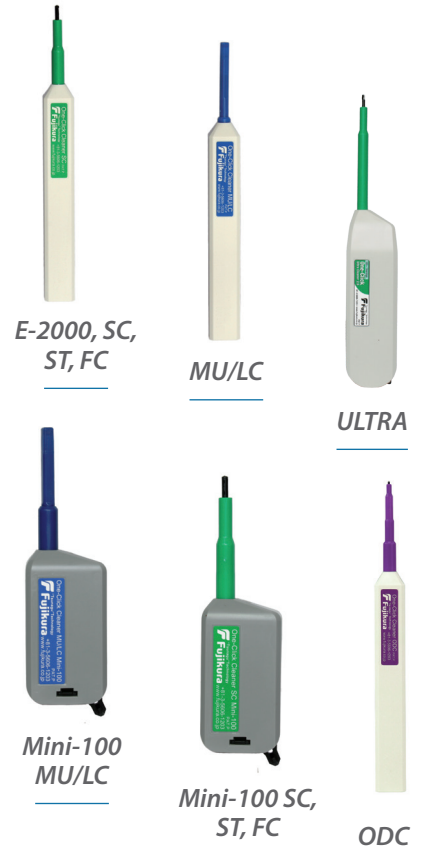
FEATURES:

- cleans ferrule endfaces when inside adaptors
- low cost of single cleaning
- effective cleaning of different types of dirt, including dust and grease
- easy one-step cleaning
- automatic scrolling - new piece of tape for each cleaning
- compliant with EU/95/2002/EC (RoHS)
- available in mini-size (One-Click-Cleaner Mini)
- available with enlarged cleaning surface
- available in version for LC duplex connectors
- available also for MTP/MPO connectors

| model                         | description   | length [mm] | base [mm] |
|-------------------------------|---|-------------|-----------|
| One-Click E-2000, SC, ST, FC  | One-Click Cleaner E2000, SC, ST, FC (500 cleanings)                             | 172         | 17,5/17,5 |
| One-Click MU/LC               | One-Click Cleaner MU/LC (500 cleanings)   |             |           |
| One-Click ODC                 | One-Click Cleaner ODC (zewnątrzny 500 cleanings)                                |             |           |
| One-Click Mini-100 SC, ST, FC | One-Click Cleaner Mini-100 SC, ST, FC (100 cleanings)                           | 120,65      | 17,5/30,2 |
| One-Click Mini-100 MU/LC      | One-Click Cleaner Mini-100 MU/LC (100 cleanings)                                |             |           |
| One-Click Mini-500 SC, ST, FC | One-Click Cleaner Mini-500 SC, ST, FC (500 cleanings)                           |             |           |
| One-Click Mini-500 MU/LC      | One-Click Cleaner Mini-500 MU/LC (500 cleanings)                                |             |           |
| One-Click Ultra Cleaner 2.5   | One-Click Ultra Cleaner 2.5 SC, ST, FC (larger cleaning surface, 500 cleanings) | 203,2       | 22,2/33,3 |
| One-Click D-LC                | One-Click Ultra Cleaner D-LC (LC Duplex, 500 cleanings x 2)                     | 195         | 18/30     |
| One-Click MPO                 | One-Click Cleaner MPO (MPO/MTP®, 500 cleanings)                                 | 203,2       | 19/44,5   |

ORDERING:

IN-ONE-CLICK-CLEANER 2,5mm - cleaner for 2,5mm ferrules



CLEANING TOOLS

CZZO

- fibre optic connector cleaner
- necessary equipment for every maintenance operator
- intended for cleaning connector ferrule endfaces with TCZ tape

CLEMATE

- ferrule end-face cleaner, up to 400 cleanings
- replaceable cleaning cartridge

PSP-400

- 400 ml of canned, high purity compressed air
- removes particles from normally inaccessible areas

ISP-200

- 200 ml of canned isopropyl alcohol for cleaning fibres, connectors and fibre optic accessories

PDCF

- ferrule endface cleaning brush

SDCA

- adapter mating sleeve cleaning brush

CHBP

- lint free wipes
- provide superior cleaning of fibre optic connector ferrules without risk of scratching
- made of pure cellulose, do not leave paper fragments on cleaned surfaces

ORDERING:

CZZO – Fibre optic connector cleaner

CZZO

TCZ



CLEMATE

CHBP



ISP-200



## KNIVES AND STRIPPERS FOR OPTICAL FIBRE CABLES



PWS-003



CK-0,5



FISKARS 9874



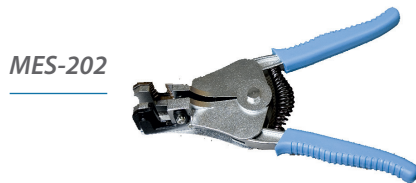
45-163



FO 103-S



AM-1



MES-202



AM-2

### FISKARS 9874 Cutters

- for cutting kevlar yarn

### NDK Universal Cutters

- for cutting fibre optic cables and strength members

### 45-163 Stripper (Small)

- designed to blaze and strip indoor cable external sheath and outdoor cable loose tubes with up to 6,4 mm diameter

### 45-164 Stripper (Large)

- designed to blaze and strip indoor or outdoor multifibre cable external sheath with 6,4 to 14.3 mm diameter range

- each knife has a spare replacement blade

### MES-202 Indoor Cable Jacket Stripper

- enables safe stripping of indoor cable external sheath and outdoor cable loose tubes with 1 mm to 4 mm diameter range

### CFS-2 Stripper

- designed to strip and remove outer cable jacket and 250 µm primary fibre coating

### PWS-003 Stripper

- designed to strip and remove 250 µm primary fibre coating and 900 µm fibre buffer
- adjustable blade diameter 0.3 - 1 mm

### CK-0,5 Stripper

- designed for precise stripping and removing 900 µm fibre buffer

### FO 103-S Stripper

- designed to strip and remove 250 µm primary fibre coating

### Stripper REHAU RAUCUT I

- precise tool for opening cable tubes without cutting fibres, tube diameters 1,8mm - 4,2mm

### AM-1 Knife (Outdoor Cable Jacket Removing)

- equipped with adjustable blade the knife is suitable for stripping jackets of cables with outside diameter range of 8 mm to 28 mm

- the blade automatically turns to the direction in which the tool is moved

- each knife has a spare replacement blade

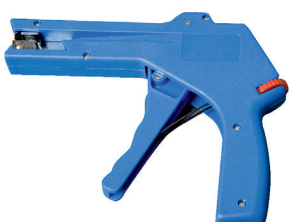
### AM-2 Knife (Outdoor Cable Jacket Removing)

- high quality knife enables safe jacket removal by axial cut without threat to fibres

### ORDERING:

FO 103-S – primary coating stripper (250 µm)

## MK III A CABLE TIE TENSIONING GUN



MK III A Cable Tie Tensioning Gun

### FEATURES:

- provides safe quick and easy cable ties tensioning
- MK III A type

### ORDERING:

MK III A - cable tie tensioning gun





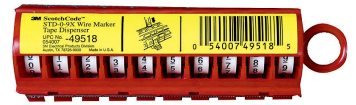
## OZRWL CABLE MARKER ROLL DISPENSER

### FEATURES:

- used for tagging single fibres
- 10 rolls with 0-9 digits
- dispenser with tape cutting blades
- 670 digits in one roll

### ORDERING:

OZRWL - (0 - 9) symbol dispenser, (200 pcs. of each symbol)  
 OZRWL supply - supplementary marker roll, (200 pcs. of each symbol)



OZRWL Cable Marker Roll Dispenser



OZRWL Supply

## OZNL CABLE MARKERS ON STICK DISPENSER

### FEATURES:

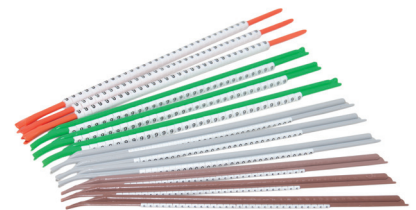
- the markers slide directly onto the cable jacket and fit in position thanks to its resilience
- one stick holds 30 markers with the same digits or letters

### TECHNICAL SPECIFICATIONS:

- cable markers with letters A to Z, pulled on tight tube
- cable markers with numbers 0 to 9, on stick dispenser
- the available diameter ranges are as follows:
  - 1.1 mm to 1.4 mm (dispenser color: brown)
  - 1.4 mm to 1.9 mm (dispenser color: grey)
  - 1.9 mm to 2.6 mm (dispenser color: green)
  - 2.6 mm to 3.2 mm (dispenser color: red)

### ORDERING:

OZNL (1.1 - 1.4) 4 - digit markers (digit 4) on a (1.1 - 1.4) diameter stick



OZNL Cable Markers on Stick Dispenser

## FIBRE OPTIC OUTDOOR CABLE TAGS

### CABLE TAG NO. 1

- dimensions: 250x80 mm
- fixing to the cable with two cable ties
- marked with signs „WARNING LASER RADIATION“ and „FIBRE OPTIC CABLE“
- custom information field for unerasable ink

### CABLE TAG NO. 2

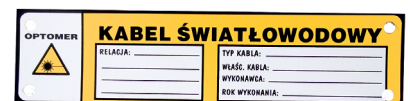
- dimensions: 200x50 mm
- fixing to the cable with two cable ties
- marked with signs „WARNING LASER RADIATION“ and „FIBRE OPTIC CABLE“
- custom information field (network relation, cable type, owner, contractor, year) for unerasable ink

### CABLE TAG NO. 3

- dimensions: 120x30 mm
- fixing to the cable with two cable ties
- marked with signs „WARNING LASER RADIATION“ and „FIBRE OPTIC CABLE“
- custom information field (cable number) for unerasable ink



Cable Tag No. 1



Cable Tag No. 2



Cable Tag No. 3

