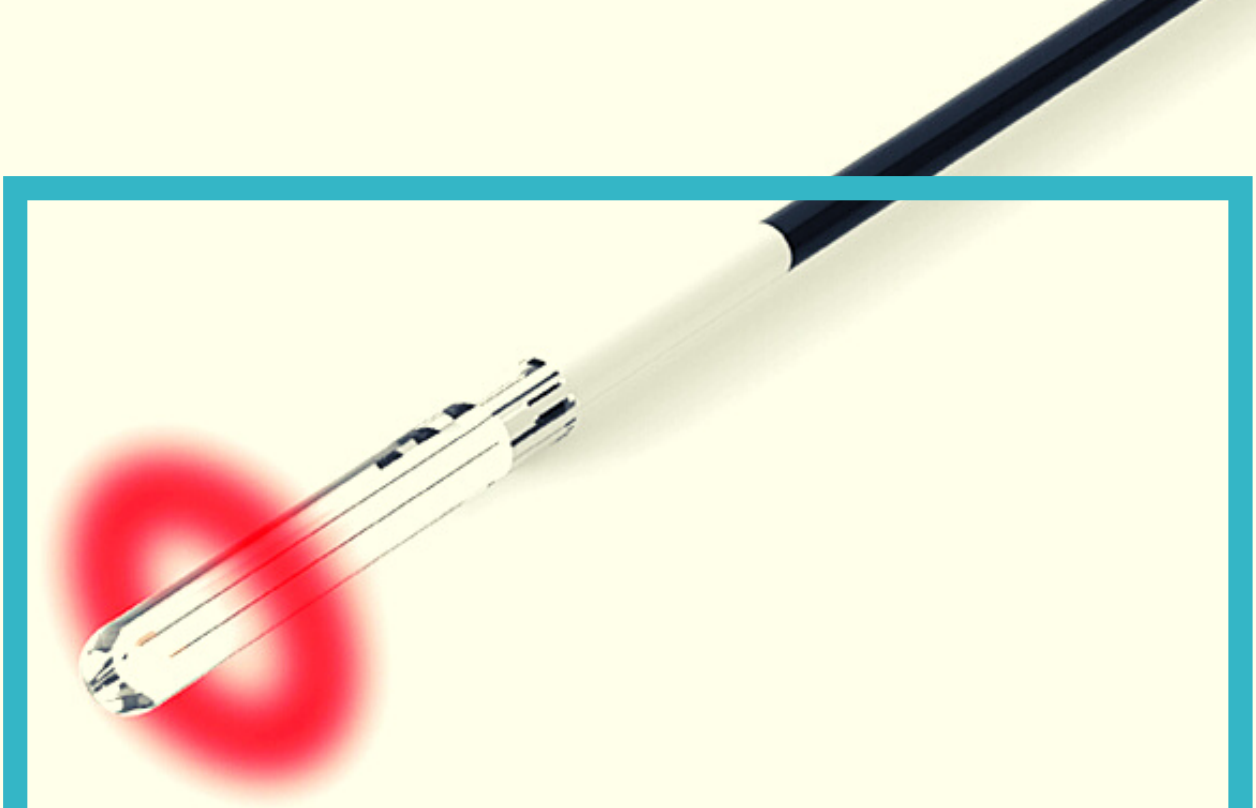


Precivein

SURGICAL LASER FIBER

TS COMPROZONE

MED FIBERS

Precivein *Surgical Laser Fibers*

MADE IN AMERICA

PRECISION CRAFTED, HIGH PERFORMANCE OPTICAL SPECIFICATIONS

TS Comprozone Pvt Ltd in association with Med Fibers offers excellent quality laser surgical fibers, PRECIVEIN SURGICAL LASER FIBERS at economical prices. Our association with global leaders in the fiber manufacturing scenario enables us to select the best products from our partners, resulting in greater choice and flexibility for you.
The surgical fibers are of the highest standard of optical specifications and imported from USA. These surgical fibers are compatible with laser machines having FC connector or SMA 905 connectors with wide applications in the field of vascular surgery, proctology, gynecology and neurology.

MED FIBERS

MED-Fibers, inc. is a precision surgical fiber manufacturer from USA with a global presnce.
The surgical fiber delivery systems are tested in production using a laser, for the purpose of internal validation of the assembly performance providing zero % tolerance failure rate.

PRECIVEIN *laser surgical fibers are available in 3 variants*

Radial fibers - 600 micron/ 400 micron
Bare tip fibers - 600 micron/ 400 micron
Conical tip fibers - 600 micron

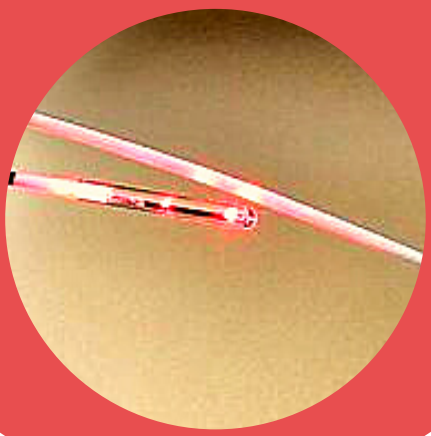
QUALITY -SAFE - EFFICIENT- EFFECTIVE

Precivein - laser fiber devices are compatible for safe and effective use with all Lasers Systems with SMA 905 or FC connectors (excluding those with RFID connectors).

Precivein surgical fibers are manufactured to provide optimum performance and 100% quality inspected before leaving production.

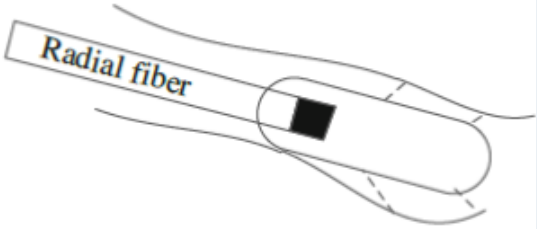
Precivein

RADIAL TIP FIBER 600 MIC



EMMISSION FROM RADIAL FIBERS

Radial Fibres emit laser light circumferentially (that is, in a 360 degree arc) around the tip of the fibre rather than as a thin beam straight ahead. Circumferential firing helps the vein wall to collapse faster.



CONTACT

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info@tscomprozone.com

DESCRIPTION

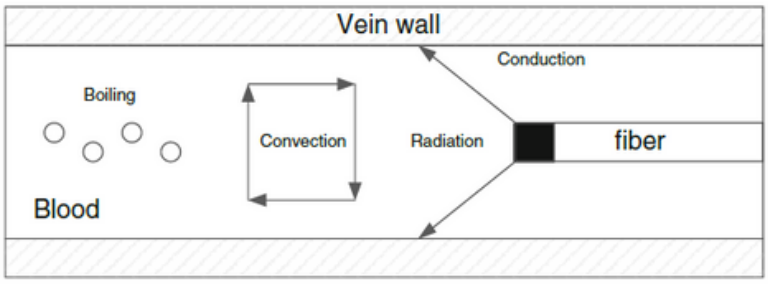
Precivein surgical laser fiber is a fiber type compatible with SMA 905 connector is used for the laserlight-based occlusion of the vein by EVLT (endovenous laser treatment). The laser fibers are sterilized, sterile double or single packed instruments for short-time, invasive and non-invasive surgical procedures.

FEATURES

Radial tip fiber is an integral part of laser procedures for varicose vein treatment. Radial tip fiber sets a new benchmark for patient and physician comfort, visibility and ease of use. Radial fiber procedures have a post-op pain score among lowest in the market yet treat with the known high efficacy of laser treatments. Thanks to the a-traumatic tip and markings on the fiber a 14G venflon or a 5 FR micro introducer suffices for vein access and controlled pull back. The net effect is a homogeneous ablation with less focal charring of the vein wall than with bare-tip fibers. It reduces procedure time compared to bare fibers

Mechanism of action

The radial tip radiates its energy in a radial direction, implying a shorter distance between the surface of emission and the vein wall than that of the other fiber tips (assuming the tip is centered in the middle of the vein). Because the surface area is at least larger by one order of magnitude than that of the bare fiber tip, the irradiance of the radial fiber is lowered by the same factor; therefore, less carbonization is to be expected., the light penetration depth is larger than the distance between the tip and vein wall. The radial tip will transfer most of its energy as direct laser irradiation to the blood near its surface and to the vein wall with a 810 nm laser. When an 1470 nm laser is used in combination with the radial tip blood is heated up to temperatures exceeding 100 ˚C by using the water component. Thus, the amount of direct irradiation of the vein wall depends strongly on the amount of blood available between the tip and the vein wall, the vein diameter, and the wavelength used.



APPLICATION

Precivein 600 micron radial fibers are indicated for the treatment of varicose veins and varicosities associated with superficial reflux of the great saphenous vein and for the treatment of incompetence and reflux of superficial veins in the lower extremity.

Precivein RADIAL TIP FIBER 600 MIC

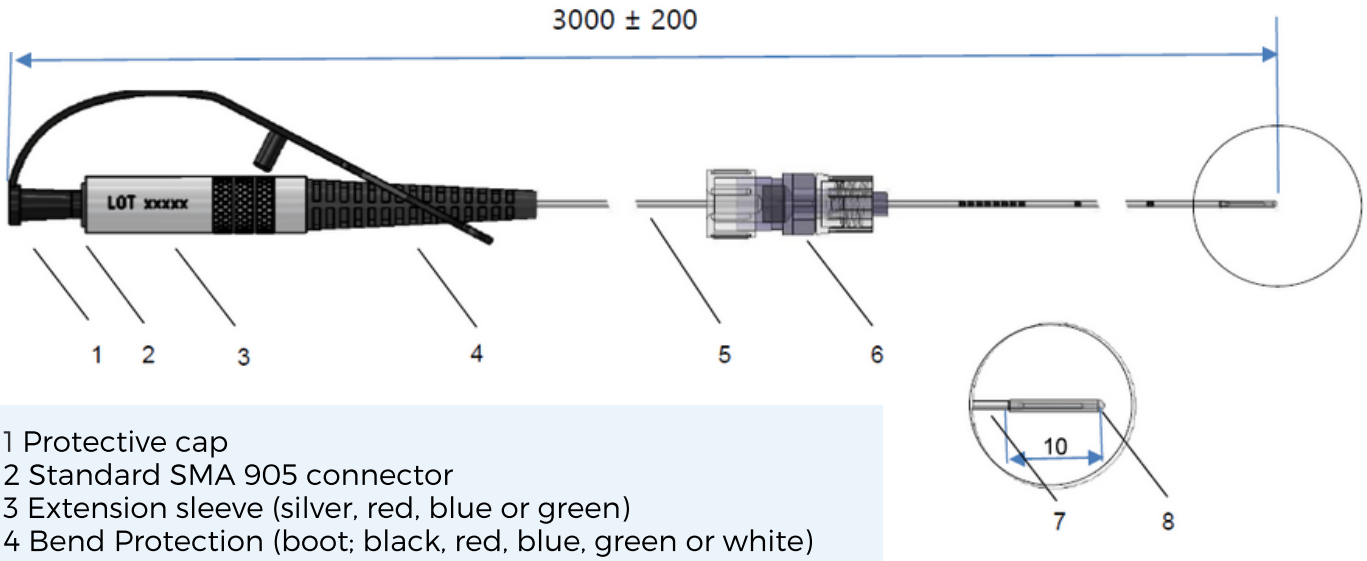
EVLA

Endovenous Laser Ablation (EVLA) has become a gold standard treatment for most patients suffering from varicose veins since its introduction to Phlebology Practices over 10 years ago. It is a minimally invasive alternative to Venous Stripping and provides an effective solution to the symptoms and appearance of varicose veins.

Endovenous laser treatment (ELT) is a minimally invasive ultrasound-guided technique used for treating varicose veins using laser energy commonly performed by a phlebologist, interventional radiologist or vascular surgeon. Endovenous laser treatment treats varicose veins using an optical fiber that is inserted into the vein to be treated, and laser light, normally in the infrared portion of the spectrum, shines into the interior of the vein. This causes the vein to contract, and the optical fiber is slowly withdrawn.

FIBER SPECIFICATIONS

MF-600/630RM



1 Protective cap
2 Standard SMA 905 connector
3 Extension sleeve (silver, red, blue or green)
4 Bend Protection (boot; black, red, blue, green or white)
5 600µm and 400 low OH silica fiber
6 Luer lock Adapter
7 Polyester shrink tube
8 Silica capillary OD 1650µm

DEVICE FEATURES:

Length:	2.5m ± 0.2m
Connector:	SMA 905 Standard
Distal end:	Tapered fiber tip with domed capillary
Other features:	Extension sleeve engraved with lot number

OPTICAL:

NA: 0.22 ± 0.02
Core: Ø 600µm ± 10µm
Clad: Ø 630µm ± 8µm
Buffer: Ø 950µm ± 35µm
Buffer material: white nylon (marked)

CONTACT

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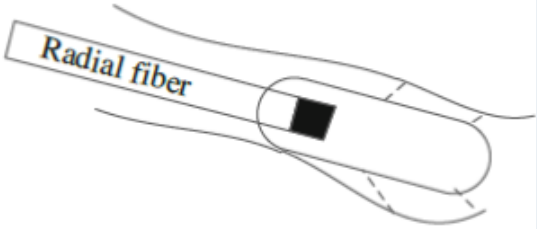
EMMISSION FROM RADIAL FIBERS

Radial Fibres emit laser light circumferentially (that is, in a 360 degree arc) around the tip of the fibre rather than as a thin beam straight ahead.



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Precivein

RADIAL TIP FIBER 400 MIC

DESCRIPTION

Precivein surgical laser fiber 400 micron is a fiber type compatible with 905 SMA connector used for the laserlight-based occlusion of the fistula tract and pilonidal sinus. The laser fibers are sterilized, sterile double or single packed instruments fo short-time, invasive and non-invasive surgical procedures.

FEATURES

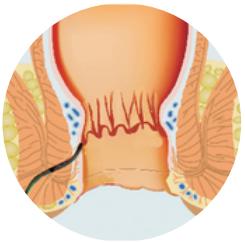
Radial tip fiber 400 micron is an integral part of endofistular laser management technique. Radial tip fiber sets a new benchmark for patient and physician comfort, visibility and ease of use. Radial fiber procedures have a post-op pain score among lowest in the market yet treat with the known high efficacy of laser treatments. Thanks to the a-traumatic tip and markings on the fiber it allows for easy vein access and controlled pull back. The net effect is a homogeneous ablation with less focal charring of the vein wall than with bare-tip fibers.

APPLICATION

Precivein 400 micron radial fiber is a laser fiber used to provide Minimally invasive laser therapy and tract closure of fistulas, pilonidal sinus and for perforator management in EVLA surgeries. The procedure does not involve any painful dressings post operatively.

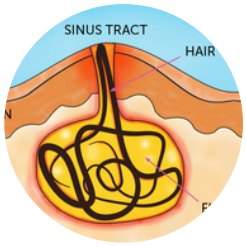
ANAL FISTULAS

Minimally invasive laser-based approach using radial fiber 400 micron uses thermal energy to destroy the inflamed connective tissue of the fistula tract without the need for incision, thus avoiding the risk of anatomical damage. Use of Precivein fiber creates effective flap closure of the internal fistula opening and tract.

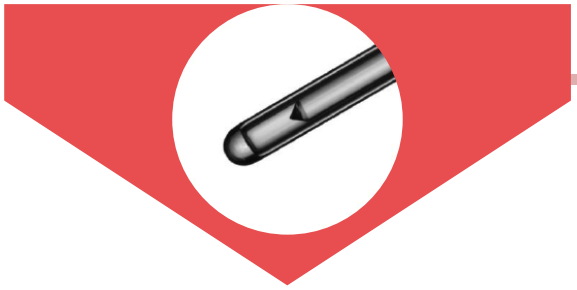


PILONIDAL SINUS

Pilonidal cyst obliteration with radial laser fiber is a simple, safe and successful treatment option for primary or recurrent pilonidal sinus disease. It is considered as an alternative method against more extensive surgical procedures.



Precivein

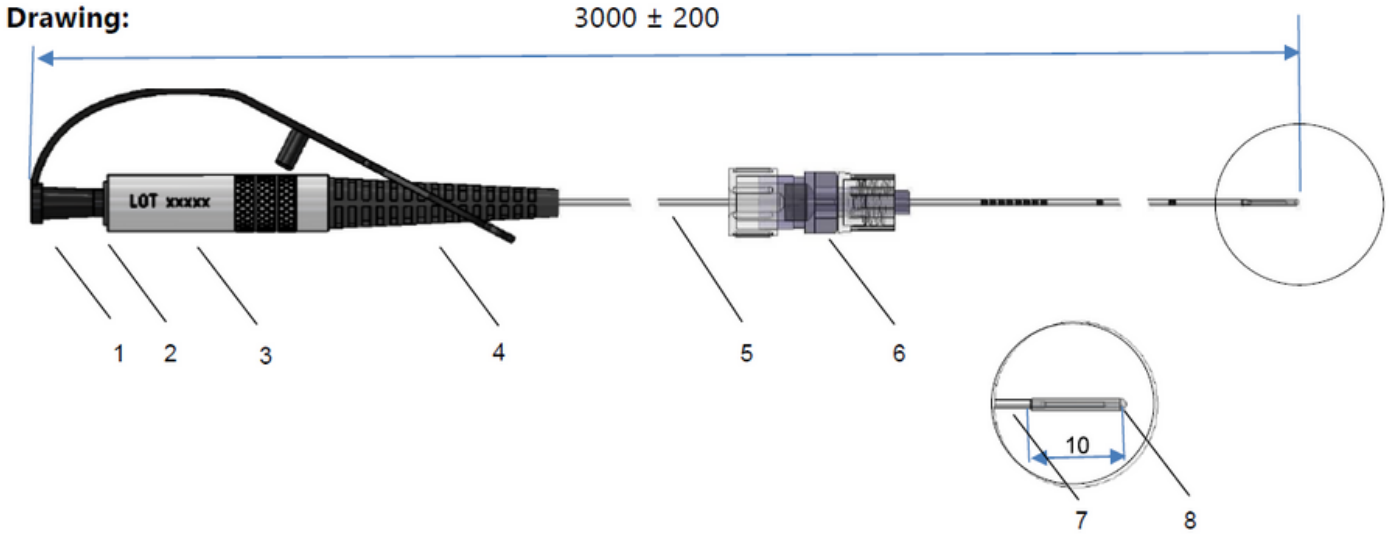


RADIAL TIP FIBER 400 MIC

FIBER SPECIFICATIONS

MF-400/440-RM

Drawing:



1 Protective cap
2 Standard SMA 905 connector
3 Extension sleeve (silver, red, blue or green)
4 Bend Protection (boot; black, red, blue, green or white)
5 600µm and 400 low OH silica fiber
6 Luer lock Adapter
7 Polyester shrink tube
8 Silica capillary OD 1650µm

DEVICE FEATURES:

Length:	2.5m ± 0.2m
Connector:	SMA 905 Standard
Distal end:	Tapered fiber tip with domed capillary
Other features:	Extension sleeve engraved with lot number

OPTICAL:

NA: 0.22 ± 0.02
Core: ∅ 400µm ± 10µm
Clad: ∅ 440µm ± 8µm
Buffer: ∅ 950µm ± 35µm
Buffer material: white nylon (marked)

CONTACT

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Precivein

BARE TIP FIBER 600/400 MIC

DESCRIPTION

Precivein surgical laser bare fiber is a optical fiber type compatible with 905 SMA connector designed to direct laser energy at soft tissue during contact and non-contact minimal invasive surgical procedures in the field of general surgery, EVLT and neurology. The laser fibers come in two diameters 600 micron and 400 micron. They are sterilized, sterile double or single packed instruments..

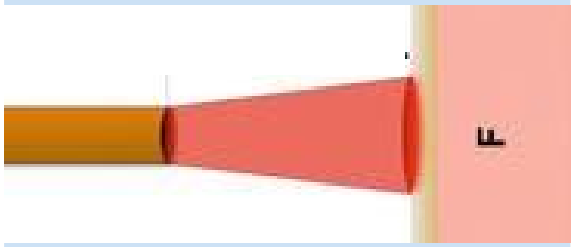
FEATURES

Precivein bare fiber is used with Diode Lasers (440nm – 2200nm) with peak and continuous power from 1 – 300 Watt. Precivein bare tip fiber can be used for minimally invasive procedures where incision, excision, tissue dissection, excision of external tumors and lesions, complete or partial resection of internal organs, tumors or lesions, tissue vaporization, hemostasis and or coagulation may be indicated.

A bare fiber consists of three layers: a core (600 µm), the cladding (30 µm), and the jacket (150–200 µm). At the distal part of the fiber, the jacket is removed over a length of 5–6 mm to expose the bare cladding and core

EMMISSION FROM BARE FIBERS

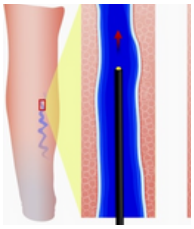
The emitted beam out of a barefiber surface can be well described as a three-dimensional cone



APPLICATION

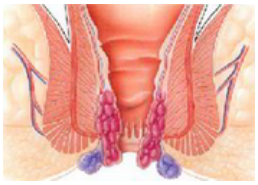
EVLA - TORTUOUS VEIN

Bare fiber tip is ideal for ablating incompetent saphenous veins which are tortuous and not accesible by radial fiber



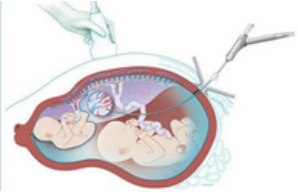
PROCTOLOGY

Bare fiber tip is used for delivering laser energy for obliterating haemorrhoidal nodes from inside out and preserve mucosa and sphinctor structures



TTTS LASER SURGERY

Precivein bare fiber 600mic can be safely used for performing laser surgery in twin-to-twin transfusion syndrome (TTTS) therby significantly improving survival rates and neurologic outcome compared to amniodrainage.



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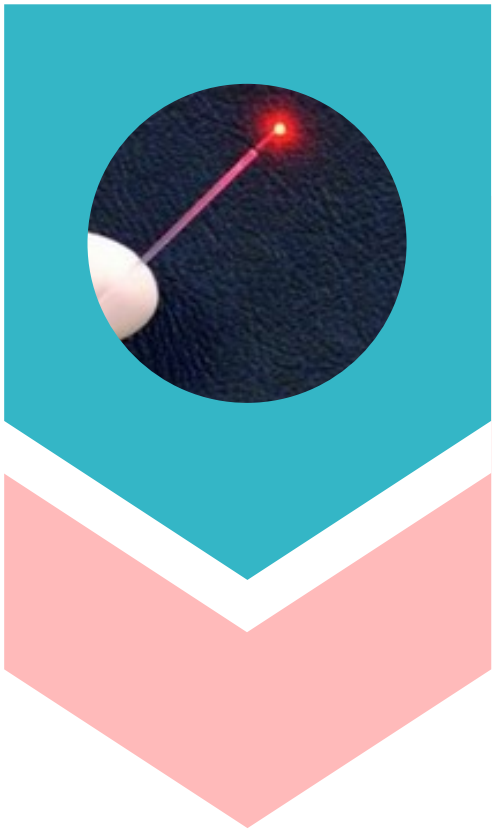
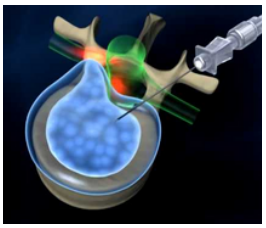
Precivein BARE TIP FIBER 600/400 MIC



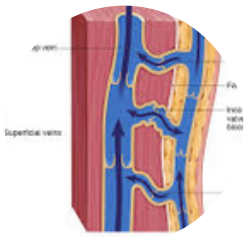
PLDD

Precivein bare fiber 600mic/ 400 micr is utilised for Percutaneous laser disc decompression (PLDD) in which herniated intervertebral discs are treated by reduction of intradiscal pressure through laser energy. A needle is inserted into the affected area of the intervertebral disc and laser fiber is injected through it to burn the nucleus pulposus with a laser



PERFORATOR VEIN INCOMPETENCE

Perforator vein insufficiency can result in pain, skin changes, and skin ulcers, and often merit intervention. Precivein 400 µ bare fiber is indicated for minimally invasive treatment of incompetence and reflux of superficial veins in the lower extremity, and for the treatment of incompetent (i.e. refluxing) perforator veins

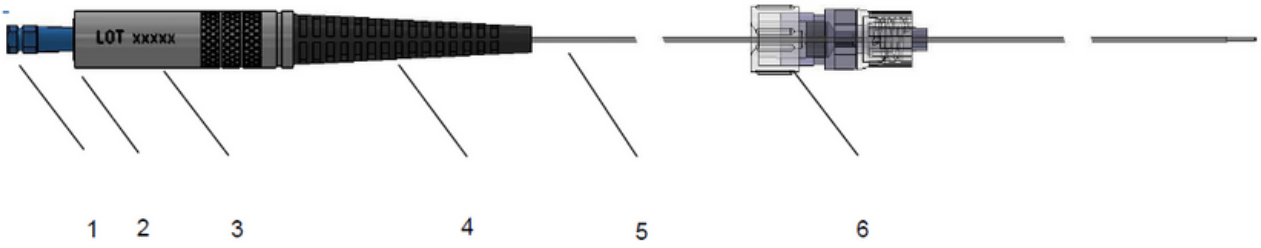


CYST ABLATION

Precivein bare fiber is used for cyst ablation in gynecological surgeries

FIBER SPECIFICATIONS

MF-600 HPCS / MF-400 HPCS



1 Protective cap
2 Standard SMA 905 connector
3 Extension sleeve (silver, red, blue or green)
4 Bend Protection (boot; black, red, blue, green or white)
5 600µm or 400 µm low OH silica fiber
6 Luer lock Adapter

DEVICE FEATURES:

Length:	3m ± 0.2m
Connector:	SMA 905 Standard
Distal end:	Flat fiber tip
Other features:	Extension sleeve engraved with lot number

OPTICAL:

NA:	**0.37 ± 0.02**	
Core:	Ø 600µm ± 2%	Ø 400µm ± 2%
Clad:	Ø 630µm ± 3%	Ø 430µm ± 2%
Buffer:	Ø 950µm ± 5%	Ø 730µm ± 2%

Buffer material: clear tefzel

CONTACT

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Precivein

CONICAL TIP FIBER 600 MIC

DESCRIPTION

Precivein conical tip fiber is used with Diode Lasers 980nm or 1470 nm for minimal invasive laser therapy 3rd or 4th degree hemorrhoids. The specially designed tip and structure of Hemorrhoid Probe can be inserted into the hemorrhoid package without incision avoiding open wounds and excisions. This product has got maximum efficacy in the wavelength ranges of 980 nm and 1470 nm.

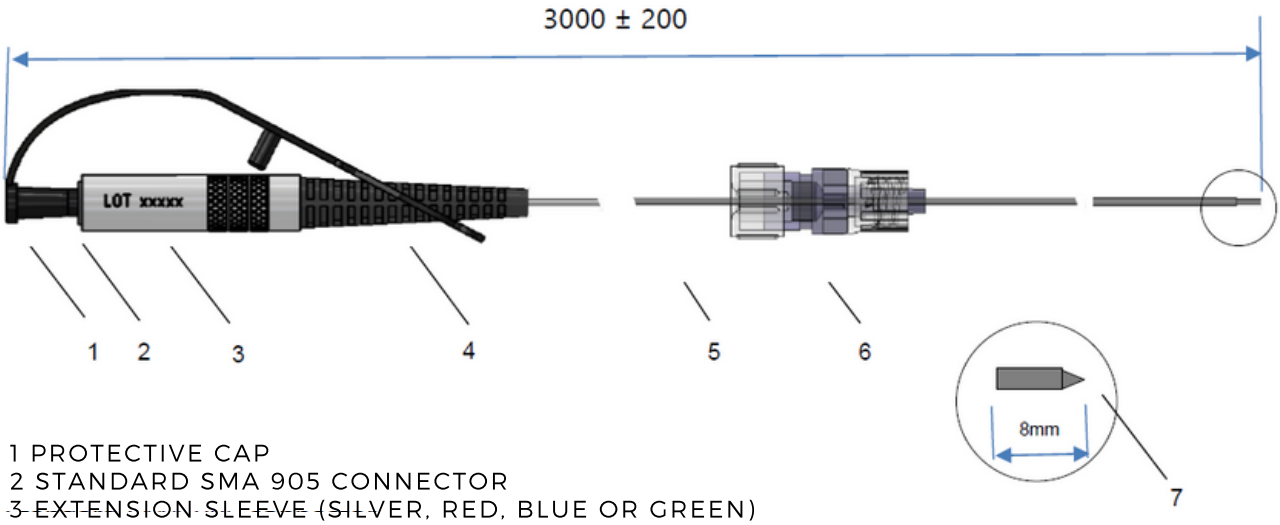
FEATURES

Precivein conical tip fiber is a bare fiber for applying controlled laser energy and is successful at achieving a shrinkage and fibrotization while limiting complications, preserving anoderm and the mucous membrane and restoring the natural anatomical structure.

- Efficient laser emission into the hemorrhoidal node
- Distinct conical design for efficient coagulation
- Excellent stability and durability

FIBER SPECIFICATIONS

MF-600 HPCS CON



1 PROTECTIVE CAP
2 STANDARD SMA 905 CONNECTOR
3 EXTENSION SLEEVE (SILVER, RED, BLUE OR GREEN)
4 BEND PROTECTION (BOOT; BLACK, RED, BLUE, GREEN OR WHITE)
5 600MM LOW OH SILICA FIBER
6 LUER LOCK ADAPTER
7 CONICAL TIP

DEVICE FEATURES:

Length:	3m ± 0.2m
Connector:	SMA 905 Standard
Distal end:	Flat fiber tip with domed capillary
Other features:	Extension sleeve engraved with lot number

OPTICAL:

NA: 0.37 ± 0.02
Core: Ø 600µm ± 2%
Clad: Ø 630µm ± 3%
Buffer: Ø 950µm ± 5%
Buffer material: clear tefzel

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