

# "Ring"<sup>TM</sup> Probe



## DESCRIPTION

Endovenous Laser Therapy (EVL) is among the major application of fiber optic probes in medical laser therapy.

This minimally invasive procedure appears to be very successful for the treatment of varicose veins and is now currently used in many countries.

Different designs of fiber probes are existing with an increasing interest for a "ring" emission of the laser light.

The Probes we produce are optimized for use @ 1470nm.

## FIBERS

Our fibers are USP Class VI certified, non toxic and biocompatible. Standard product is using a 600 µm core all silica fiber. However different dimension can be produced according to the medical procedure and the type of laser.

## CONNECTOR

The probe is equipped with the Powershot<sup>TM</sup> SMA connector manufactured by SEDI-ATI. This connector is specially designed for power application of disposable probes where cost issue is important. A free standing ferrule with air gap around the fiber allows an excellent power handling and the assembly technique avoid any stress on the fiber itself.

## DISTAL END

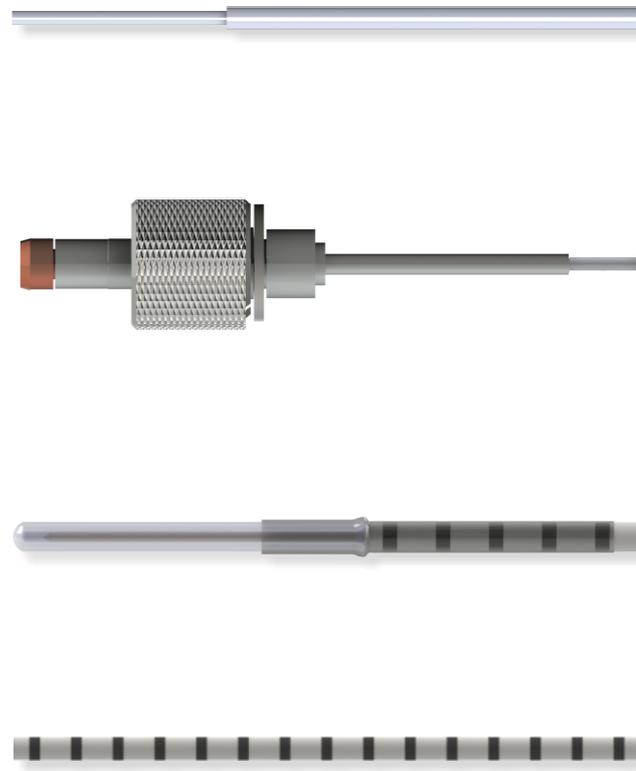
The most efficient design is obtained by a specific shaping of the fiber end which is enclosed in a silica capillary. The result is an annular emission of the laser energy for homogenous action on the vein wall

## JACKET

Ring<sup>TM</sup> fibers with a capillary assembly at the distal end are jacketed with a biocompatible material. This jacket has cm marking to help visualization of the fiber introduced.

## MANUFACTURING

- Materials packaged, stored and used in clean environment
- Used of biocompatible materials.
- The probe is made of a "Clean Room" qualified ISO8.
- Production workshop certified ISO 9001 : 2008 & ISO 13485 : 2012.
- CE certification according to the Directive 93/42, CE number : CE 0476.
- Sold sterilized (or not) in double bag.



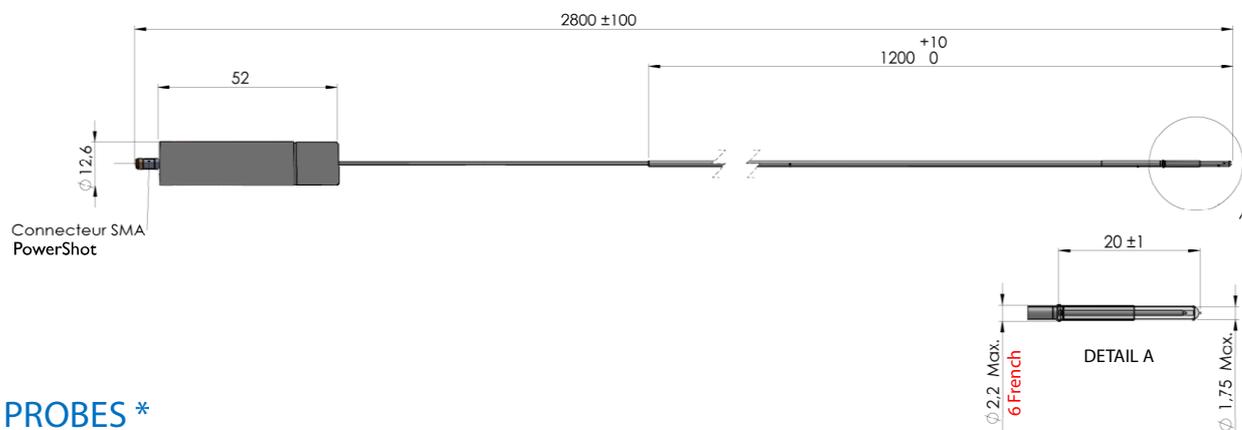
|   |  |  |                |
|---|--|--|----------------|
| <b>SEDI-ATI</b><br>fibres optiques  |  | SEDI-ATI Fibres Optiques<br>8 rue Jean Mermoz – ZA-St Guénault<br>91080 Courcouronnes - France<br>Tel : +33 (1) 69366400 - Fax : +33 (1) 69366419<br>www.sedi-fibres.com |                |
| 1   | Fiber Optic probe  | <br>R1512-13167   |                |
|    19°C  40°C    |  |  |                |
|  2013-07-31  | <b>LOT</b> 13/40   | <b>STERILE EO</b>  |                |
|  2015-07-31  |  SEDI-ATI Fibres Optiques<br>8 rue Jean Mermoz – ZA-St Guénault<br>91080 Courcouronnes - France<br>Tel : +33 (1) 69366400<br>Fax : +33 (1) 69366419 |  | <b>CE 0476</b> |

# "Ring"<sup>TM</sup> Probe

**SEDI-ATI**  
fibres optiques



## SPECIFICATIONS



## PROBES \*

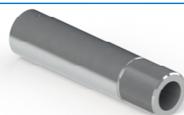
| Product                              | Length (m) | Fiber tip (mm) | Catheter compatibility |
|--------------------------------------|------------|----------------|------------------------|
| Ring <sup>TM</sup> Sil/Sil 550 $\mu$ | 2.9        | 1.75           | 6 FR                   |
| Ring <sup>TM</sup> Sil/Sil 600 $\mu$ | 2.9        | 1.75           | 6 FR                   |

\* Only to be used with 1470nm

## HANDPIECE

### Product

Handpiece anodized grey



## OPTIONS

### Product

Customer's handpiece

Customer's Chip / Dongle

## QUALIFICATION

Internal Qualification Report (RQ040112) :

Power handling 400 Joules per cm of meat on a length of 80 cms @ 1470 nm.

Destructive test, 5000 J in the same "beef volume" creating a big hole + carbonization layer on the surface tip but not disconnecting the capsule. Traction of the fiber tip of 10 kgs.

## CERTIFICATIONS



ISO 9001:2008

ISO 13485:2012

CE93/42 - CE 0476

SEDI-ATI Fibres Optiques – 8 Rue Jean Mermoz, Z.A Saint Guénault, 91080 Courcouronnes

Tel : +33 1 69 36 64 32 – Fax : +33 1 69 36 64 19 – Mail : [info@sedi-ati.com](mailto:info@sedi-ati.com)

[www.sedi-fibres.com](http://www.sedi-fibres.com)

