

RADIAL FIBER

Varicose vein laser

Quartz Tube

Marker Bands

- Recent innovations made by **HAPROS** result in our best laser fiber for soft tissue laser surgery. The broad cylindrical 360° laser light emission of our Infinity Side Fiber ensures smooth and gentle laser energy delivery to the target tissue. Intravascular, intrastitial and intracutaneous laser ablation treatments can benefit from the smoother procedure and higher patient comfort
- The optimized fused fiber tip design guarantees first-class **safety and durability**. The optical fiber has marking lines to ease positioning in the target tissue. A compatible Introducer Set for vascular access is available

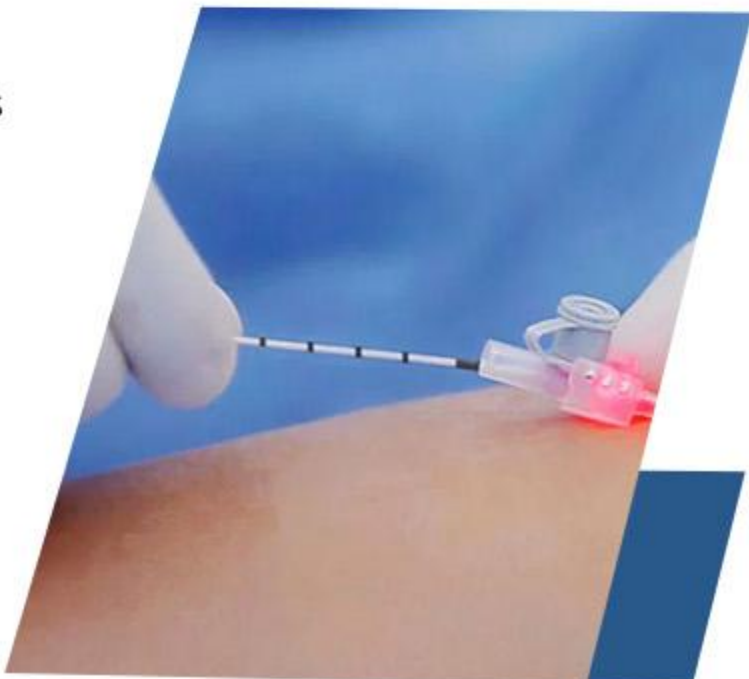


Radial fiber ensures continuity of service. The self-healing ability is greatly improved, ensuring the reliability and stability of the system.

Through proper configuration, radial fiber can achieve a balanced distribution of traffic, reduce the possibility of single-point overload, and improve the overall network efficiency.

The radial fiber emits laser energy evenly at **360 degrees**, allowing for more efficient vein closure during surgery

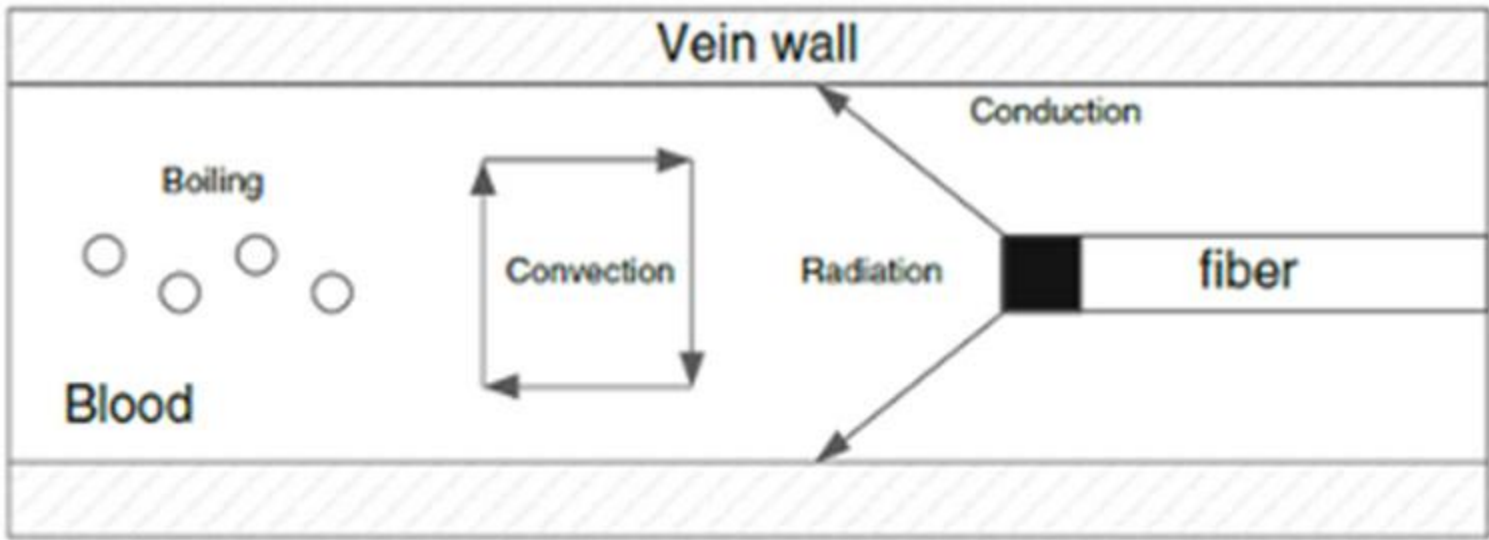
The Radial fiber allows the laser energy to be distributed more evenly across the vein lining, helping to improve closure and reduce damage to surrounding tissues. Compared to traditional linear fibers, Radial fibers are able to process a larger area of the vein wall at one time, which can theoretically speed up the surgical process and reduce the occurrence of postoperative pain and other complications



- Gentle energy transfer with lowest peak temperature
- Most uniform emission
- Cylindrical **360° emission** profile
- 100% direct irradiation to the target
- Fused fiber tip design for highest safety
- Reduced sticking to tissue

Radial Fiber has unique structural and performance characteristics that give it advantages in a variety of applications, especially in laser surgery and other medical procedures

- Special geometry:** The center of a radial fiber is usually hollow or has a core with a low refractive index, while the surrounding cladding forms one or more radial-like structures. This design allows light to propagate within the radial
- Multi-channel capability:** Some radial fibers are designed with multiple surrounding transmission channels that can simultaneously transmit different wavelengths of light or for different functions, such as main laser beam transmission and feedback signal collection
- High power bearing:** Due to its special structural design, the radial fiber can effectively disperse heat, so it can withstand high laser power without being easily damaged
- Uniform energy distribution:** With proper optical design, ring fibers can provide a very uniform energy output, which helps to reduce damage to surrounding healthy tissues during surgery



DEVICE FEATURES

Length: 3m ± 0.2m

Connector: SMA 905 Standard

Distal end: Tapered fiber tip with domed capillary

Other features: Extension sleeve engraved with lot number

OPTICAL

NA: 0.22/0.37	NA: 0.22/0.37
Core: Ø 400µm ± 10 µm	Core: Ø 600µm ± 10 µm
Clad: Ø 430µm ± 8µm	Clad: Ø 660µm ± 8µm
Buffer: Ø 730µm ± 35µm	Buffer: Ø 950µm ± 35µm
Buffer material: ETFE	Buffer material: ETFE