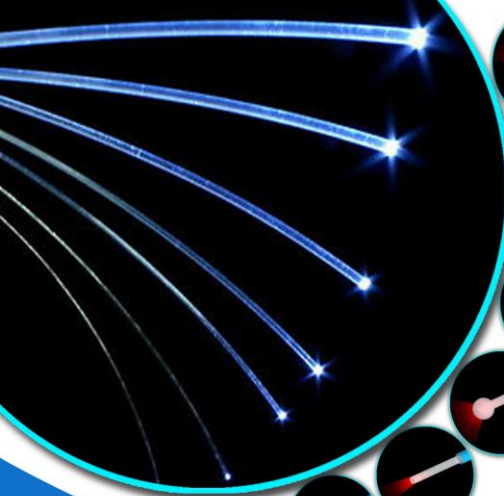


**CIGHTECH**  
The Center of Innovation for  
Green & High Technologies

Light has healing properties  
Scientists developed biodegradable  
optical fibers capable of carrying  
light beneath the surface of a  
wound, delivering the light's  
healing powers to a local point  
internally.



## Field of Application

- Venous diseases
- Hemorrhoids and fistulas
- Wide spectrum of ENT diseases
- BPH and urological tumors
- Uterine tumors
- Cervical and lumbar disc herniation
- Lung metastases and bronchial tumors

Our state of the art CO2 Laser processing is applied for medical Laser probes construction. Fiber optics end face is shaped carefully through high precision and versatile laser glass processing kit, which in some cases combined with ultra-high precision lapping processing.

## Customized single use Ball tip Fiber for Percutaneous Laser Disk Decompression (PLDD)



### Peroperties

Fiber type	400um bare fiber
Fiber length	3m
Connector type	SMA905 or HP-SMA905
Distal tip	Ball tip
Sterilization	EtO-sterilized

### Optional Features

- extension sleeve available in various colors
- Laser inscription possible
- Customer-optimized designs on request
- Various accessories available

## Reusable Polyimide Coated Single Ring Radial Fiber

A single ring radial fiber precisely covered by a dome shaped fused silica capillary tube protecting the radial tip during surgery and facilitates the fiber tip movement through veins.

### Properties

Fiber type	400 and 600um
Loose Tube	Colored Hytrel or without loose tube
Fiber length	2m
Connector type	SMA905 connector or HP-SMA905
Distal tip	Encapsulated angled tip
NA	0.22
Sterilization	EtO-sterilized

Core $\phi$	Clad $\phi$	Outer $\phi$ (fiber)	Outer $\phi$ (tube)	NA
[ $\mu\text{m}$ ]	[ $\mu\text{m}$ ]	[ $\mu\text{m}$ ]	[ $\mu\text{m}$ ]	
200	240	265	2000	0.22
400	440	465	2000	0.22
600	660	685	2000	0.22

## Reusable Bare Fiber Dentistry

Autoclavable polyimide fibers with biocompatible protection tube ( $\phi 2$  mm) guarantee very high mechanical stability and excellent beam quality

### Optional Features

- Autoclavable
- Available with Germanium-doped silica / silica fibers (NA= 0.37)
- Customer-optimized designs on request
- Customer-specific connectors can be assembled
- Various accessories available

Core $\phi$	Clad $\phi$	Outer $\phi$ (fiber)	Outer $\phi$ (tube)	NA
[ $\mu\text{m}$ ]	[ $\mu\text{m}$ ]	[ $\mu\text{m}$ ]	[ $\mu\text{m}$ ]	
200	240	265	2000	0.22
400	440	465	2000	0.22
600	660	685	2000	0.22





## Disposable Ophthalmic Endo Probes

Biocompatible fibers made of silica in flat polished cannulas and assembled in an ergonomic hand piece for all typical ophthalmic laser devices.

### Properties

Wavelength	Compatible with standard Ophthalmic laser
Fiber type	200um core fiber
Fiber length	3m
Connector type	SMA905 connector or F-SMA (DORC,ALCON,ZIESS) compatible
Gauge	20G, 23G, 25G, 27G
Distal tip	Flat and finished with Nano lapping process
NA	0.22

## Disposable Polyimide Coated Single Ring Radial Fiber

A single ring 400um to 600 um shaped fiber guarantee very high mechanical stability and excellent beam quality.

### Properties

Fiber type	400 and 600um
Loose Tube	Colored Hytrel or without loose tube
Fiber length	2m
Connector type	SMA905 connector or HP-SMA905
Distal tip	Encapsulated angled tip
NA	0.22
Sterilization	EtO-sterilized





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