

# Fiber Optic Cables and Retractors

IFU-2017.02.08



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SURGICAL**

**SURGICALINSTRUMENTS.COM**

UNMATCHED SERVICE • UNLIMITED INSTRUMENTS

822 Montgomery Ave #205  
Narberth, PA 19072  
(800) 600-0428



Failure to follow these instructions could render the device unusable and void any warranty.

## Device Description:

Fiber-optic cables and Fiber-optic Retractors are designed to deliver maximum light when coupled to a medical grade fiber-optic light source. Our fiber-optic cables can be used with quartz halogen, metal halide, or Xenon light sources. They are compatible with virtually all endoscopes, medical instruments, and microscopes.

## Intended Use:

This device is designed to illuminate a surgical site by relaying light from a fiber-optic light source onto the desired site. Our cables are medical grade, high transmittance, peak efficiency.

## Contraindication:

This device has no contraindication of which we have knowledge.

## Warnings and Precautions:

- Our light cables are provided non-sterile and must be sterilized before use. See instructions for cleaning and sterilization.
- Always inspect cables for any evidence of damage prior to use. Pay particular attention to optical surfaces looking for scratches or dings.
- Use caution to treat our cables and Retractors as you would any fine optical device.
- The user of this product should be thoroughly familiar and trained in use and care of the product.
- FIRE HAZARD. Never drape or cover the end of any fiber-optic cable with anything flammable.

## Adverse Events:

We have no knowledge of any adverse events with this product.

## Care and Handling:

The optical glass fibers in the Fiberoptic cable can be irreversibly damaged by careless handling. Follow the steps below to maximize the life of the cable

- 1) Coil the Fiberoptic cable in a six inch diameter or greater.
- 2) Keep cable free of foreign material.
- 3) Do not pull, stretch or kink cable.
- 4) Do not allow the cable to come in contact with any sharp edges or pointed objects.
- 5) Do not alter or remove end fittings.
- 6) Do not pre-vacuum high temperature autoclaves.
- 7) Allow the cable to slowly cool after autoclaving. Do not immerse in any cold liquid.



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Cleaning and Sterilization of Fiber-optic Light Cables + Fiber-optic Retractors:

## Cleaning:

Fiber-optic light cable and Fiber-optic Retractors for endoscopes, microscopes, and surgical instruments are high quality optical devices. They require similar care to that taken for any precision optical component. After each use, the light cable or Retractor should be washed and cleaned of all debris. A soft brush and mild detergent should be used to clean the device. Pay particular attention to any crevices or seams. Avoid any harsh materials or detergents that can scratch or in any way damage the optical surfaces on each end of the light guide. We recommend following the guidelines contained in ASTM F 1518-00 "Standard Practices for Cleaning and Disinfection of Flexible Fiber-optic and Video Endoscopes Used in the Examination of the Hollow Viscera." Although written specifically for endoscopes, much of it applies to light cables + Retractors.

## Steam Sterilization (Autoclave):

The cycle selected is dependent on equipment and hospital protocol. General guidelines are:

Method	Cycle	Sterilizing Temperature	Sterilizing Time	Drying Time
Steam (wrapped)	Prevacuum	270 deg. F (132 deg.C)	4 minutes	20-40 minutes
Steam (wrapped)	Gravity	270 deg. F (132 deg.C)	10 minutes	20-50 minutes
Steam (wrapped)	Gravity	250 deg. F (121 deg.C)	45 minutes	20-50 minutes

## Chemical Disinfection:

It is recommended that the guidelines below published by Advanced Sterilization, a Johnson & Johnson company be followed.

Product	High Level Disinfection Sterilization	Sterilization
Cidex Activated	45 minutes @ 25 degrees C 77 degrees F.	10 Hours
Cidex Plus 29 Day Solution	20 minutes @ 25 degrees C 77 degrees F.	N/A

## Flash Autoclaving (fast heating/cooling cycle)

Wrap Fiber-optic cable and Fiber-optic Retractors in surgical towel + place in tray.

Sterilize for: 3 minutes 270 degrees F. at (30psi) or 121 degrees C. 1 kg/cm<sup>2</sup>. Average drying time - 8 to 15 minutes

## Sterrad Sterilization:

Follow Sterrad (a J&J Company) Guidelines

## Limited Warranty:

Your fiber-optic cable or Fiber-optic Retractor has a one (1) year warranty from the date of shipment on workmanship and all defects of material except for broken fiber. Should your product prove to have such defects within one (1) year of shipment, we will replace the product or component part without charge.

**Warning: If this device is/was used in a patient with or suspected of having Creutzfeldt-Jakob Disease (CJD), the device cannot be reused and must be destroyed due to the inability to reprocess or sterilize to eliminate the risk of cross-contamination!**