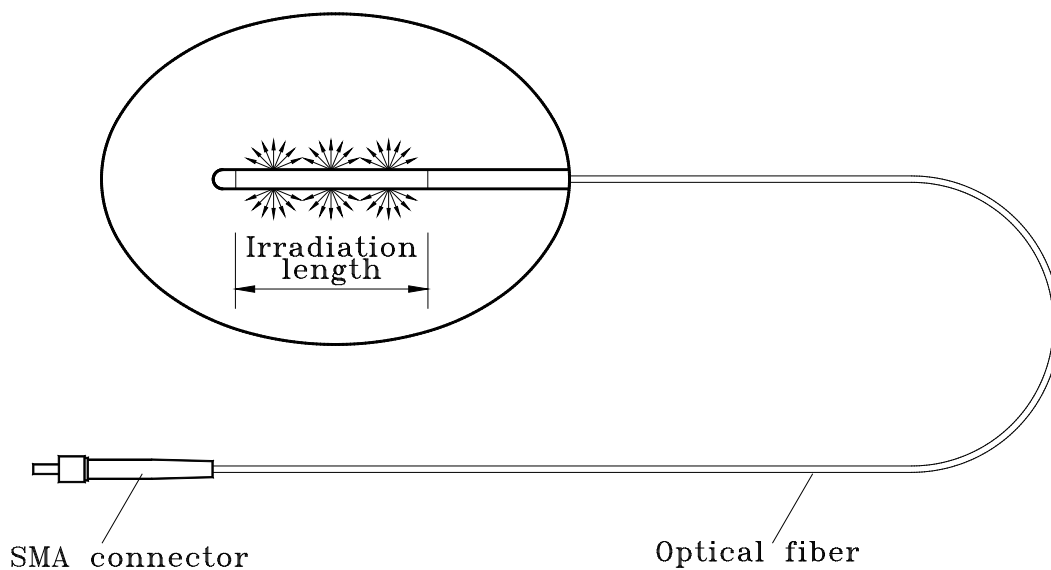


## Cylindrical light diffuser Model RD



### **DESCRIPTION**

The cylindrical light diffuser is a radially emitting fiber, which can be used for intraluminal photodynamic therapy (PDT). The cylindrical diffuser is thin and very flexible, making it the optimal choice for endoscopic use.

It produces a radial light pattern, which is homogeneous all along the diffuser tip.

Standard tip lengths are 10, 20, 30, 40 and 50 mm. Other lengths can be manufactured on request. The cylindrical light diffuser is supplied with two radio marker bands.

The diffuser is supplied sterile in peel-open package and is intended for single use only.

The RD diffuser must only be used with approved Photodynamic Therapy protocol.

## TECHNICAL DATA

<b>MECHANICAL DIMENSIONS (APPROXIMATE)</b>	<b>RD Model</b>
OVERALL DIAMETER	0.98 mm
OVERALL LENGTH	3 m
<b>OPTICAL CHARACTERISTICS</b>	
TRANSMISSION @ 630 / 652 / 690 nm (*)	70 / 85 / 75 %
ILLUMINATION LENGTH	
STANDARD LENGTHS [mm]:	10, 20, 30, 40, 50
OTHER LENGTHS ON REQUEST	
UNIFORMITY	± 15%
MAXIMUM POWER DENSITY (in air)	0.5 W/cm (cw)
ABSOLUTE MAXIMUM INPUT POWER	2.0 W (cw)
<b>OPTICAL FIBER</b>	
FIBER MATERIAL	PLASTIC
CORE DIAMETER	500 µm
NUMERICAL APERTURE	0.48
MINIMUM BENDING RADIUS	10 mm
FIBER CONNECTOR	SMA905
<b>CONDITIONING</b>	
PACKAGING	INDIVIDUAL POUCH
STERILIZATION	STERILE / EtO
<b>USEFUL LIFE</b>	
REUSE	DISPOSABLE
SHELF LIFE	2 YEARS
<b>MISCELLANEOUS</b>	
RADIOMARKERS	2

(\*) Transmission is defined in comparison with a 3 meters / 400 microns / NA 0.37 silica bare fiber.

### TYPICAL LIGHT INTENSITY PROFILE

(measured in air, in contact with the diffuser's surface)

