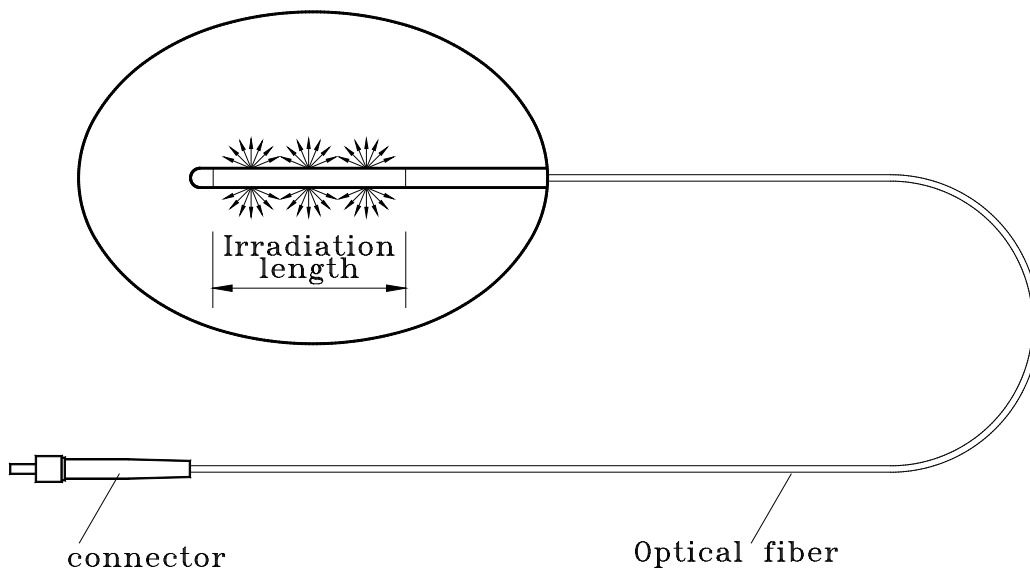


## Cylindrical light diffuser Model RD-ML



### 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, 50 mm. Other lengths can be manufactured on request.

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

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

## TECHNICAL DATA

<b>MECHANICAL DIMENSIONS (APPROXIMATE)</b>	
OVERALL DIAMETER	≤ 1.0 mm
OVERALL LENGTH	3 m
PROXIMAL RED JACKET LENGTH	1 m
<b>OPTICAL CHARACTERISTICS</b>	
TRANSMISSION (*) (630-760 nm)	≥ 80%
ILLUMINATION LENGTH [mm]	10, 20, 30, 40 and 50
UNIFORMITY (630-760 nm)	± 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	SILICA, Low OH <sup>-</sup>
CORE DIAMETER	400 μm
NUMERICAL APERTURE	0.37
MINIMUM BENDING RADIUS	47 mm
FIBER CONNECTOR	SMA905
<b>CONDITIONING</b>	
PACKAGING	DOUBLE POUCH DISPENSER INDIVIDUAL BOX
STERILIZATION	STERILE / EtO
<b>USEFUL LIFE</b>	
REUSE	DISPOSABLE
SHELF LIFE	2 YEARS
<b>MISCELLANEOUS</b>	
RADIOMARKERS	NO
TIP LENGTH (DISTANCE BETWEEN THE DIFFUSING FIBER END AND THE ILLUMINATION LENGTH).	2 mm
WHITE LABEL AT THE CONNECTOR SIDE WITH SERIAL NUMBER AND ILLUMINATION LENGTH (mm).	

(\*) Transmission is defined in comparison with a 2 or 3 meters / 400 microns / NA 0.37 silica bare fiber.

Illumination length: Distance defined by  $I > 50\% I_{\text{mean}}$