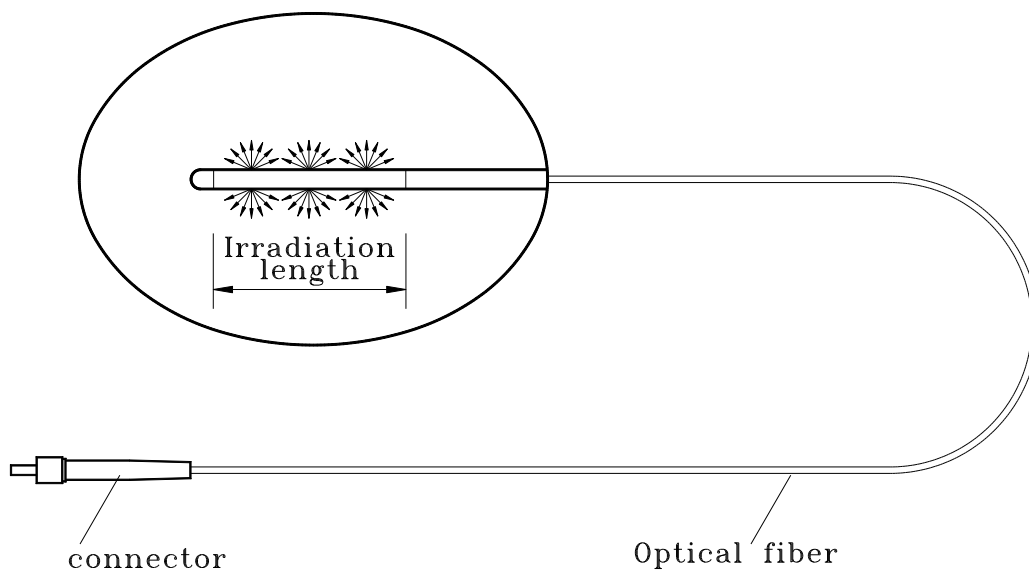


Cylindrical light diffuser Model RD-ML

CE1250



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, 15, 20, 25, 30, 40, 50, 70 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

MECHANICAL DIMENSIONS (APPROXIMATE)	
OVERALL DIAMETER	1 mm
OVERALL LENGTH	3 m
PROXIMAL RED JACKET LENGTH	1 m
OPTICAL CHARACTERISTICS	
TRANSMISSION (*) (630-760 nm)	> 80%
ILLUMINATION LENGTH [mm]	10, 15, 20, 25, 30, 50 and 70
UNIFORMITY (630-760 nm)	± 15%
MAXIMUM POWER DENSITY (in air)	0.5 W/cm (cw)
ABSOLUTE MAXIMUM INPUT POWER	2.0 W (cw)
OPTICAL FIBER	
FIBER MATERIAL	SILICA, Low OH ⁻
CORE DIAMETER	400 µm
NUMERICAL APERTURE	0.37
MINIMUM BENDING RADIUS	47 mm
FIBER CONNECTOR	E2000/SMA905
CONDITIONING	
PACKAGING	SINGLE or DOUBLE POUCH
	BOX (1 or 5 units/box)
STERILIZATION	STERILE / EtO
USEFUL LIFE	
REUSE	DISPOSABLE
SHELF LIFE	2 YEARS
MISCELLANEOUS	
RADIOMARKERS	NO
RADIOMARKER POSITION AT EACH SIDE OF THE ILLUMINATION LENGTH.	NA
MALE TOUHY BORST W/SPIN-LOCK	OPT.
PROXIMAL MARK AT 21.5 CM FROM THE DISTAL END OF THE DIFFUSING FIBER	OPT.
DISTAL MARK AT 10 CM FROM THE DISTAL END OF THE DIFFUSING FIBER	OPT.
TIP LENGTH (DISTANCE BETWEEN THE DIFFUSING FIBER END AND THE ILLUMINATION LENGTH).	3 mm
WHITE LABEL AT THE CONNECTOR SIDE WITH SERIAL NUMBER AND ILLUMINATION LENGTH (mm).	

(*) Transmission is defined in comparison with a 5 meters / 600 microns / NA 0.37 silica bare fiber.

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