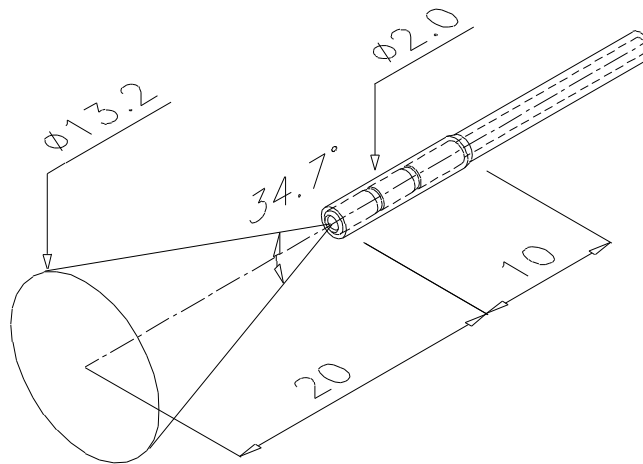


Frontal light distributor Model FD1

€1250



DESCRIPTION

The FD1 frontal light distributor produces a circular spot of light, with sharp edges and an outstanding homogeneity. These properties make it the ideal device for precise irradiation of a variety of organs treated with photodynamic therapy (PDT) in patients or animals (skin, head and neck, lungs, etc.). The uniform light pattern is also perfectly suited for illuminating cell cultures or to be used as a calibration source for light sensors.

Its particularly wide aperture angle is very useful when there is little space to irradiate the tumour. This is often the case when performing PDT endoscopically, for instance by treating bronchial spurs. The small overall diameter of 2 mm allows endoscopic use through the working channel of a standard fiberscope. The FD1 frontal light distributor works with wavelengths ranging from 480 nm to 800 nm, making it suitable for a variety of photosensitisers.

The diffuser is supplied sterile in peel-open package and is intended for single use only. Dispose of as biohazard with other medical waste.

TECHNICAL DATA
(subject to change without notice)

| | |
|--|-----------------------------|
| MECHANICAL DIMENSIONS (APPROXIMATE) | FD1 |
| OVERALL DIAMETER | 2 mm |
| OVERALL LENGTH | 4 m |
| OPTICAL CHARACTERISTICS | |
| TRANSMISSION (*) | > 85 % |
| FULL ANGLE OF DIVERGENCE | 34.7° |
| BEAM DIAMETER | |
| at 0 mm DISTANCE: | 0.6 mm |
| at 10 mm DISTANCE: | 7.6 mm |
| at 20 mm DISTANCE: | 13.2 mm |
| UNIFORMITY | ± 15% |
| LASER INPUT | |
| MAXIMUM POWER (calibrated fiber output) | 2.0 W (cw) |
| WAVELENGTH RANGE | 480 – 800 nm |
| OPTICAL FIBER | |
| FIBER MATERIAL | SILICA, low OH ⁻ |
| CORE DIAMETER | 600 μm |
| NUMERICAL APERTURE | 0.37 |
| MINIMUM BENDING RADIUS | 94 mm |
| FIBER CONNECTOR | SMA 905 |

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

TYPICAL LIGHT INTENSITY PROFILE

(FD1, distance to screen: 100 mm)

