

Product Description

Set of 10 SNOM probes with transmitted wavelength 450-600nm.

- Material - single mode optical fiber Nufern 460HP.
- Probe tip is coated by Al (70nm)/sublayer Cr (20nm) .
- Aperture (hole uncoated by Al) $\sim 100 \pm 30$ nm
- Angle of fiber - about 20 degrees
- Maximum optical input power - 400 microWatt
- Tip is formed by chemical etching.
- Fiber length ~ 2 meters.
- Tip length without protective coating is 7-8mm.

Geometrical & Mechanical fiber Specifications:

Clad Diameter	125.0 \pm 1.5 μ m
Coating Diameter	245 \pm 15 μ m
Core-Clad Concentricity	< 0.5 μ m
Coating/Clad Offset	\leq 5 μ m
Coating Material	UV Cured, Dual Acrylate
Operating Temperature	-55 to +85 °C
Short-Term Bend Radius	\geq 6 mm
Long-Term Bend Radius	\geq 13 mm
Proof Test Level	\geq 200 kpsi (1.4 GN/m ²)

General Features

Basic Nufern fiber	460-HP
Operating wavelength	450-600 nm
Second Mode Cut-Off	430 \pm 20 nm
Measured Optical efficiency at the wavelength 530nm	10 (-5) - 10 (-4)
Calculated Optical efficiency at the working wavelength	10 (-5) - 10 (-4)