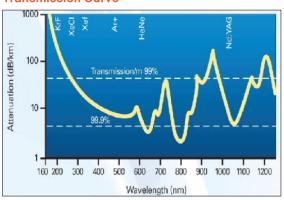
Quartz Fiber XOP-1102/1103/1104/1105

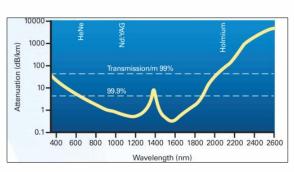
Introduction

XOP-1102-1105 series quartz fibers are of a concentric cylindrical structure with a quartz core and a Fluorine-doped quartz cladding and coated with resin materials to enhance fiber strength. An additional sheath layer can be added to protect the fiber. XOP-1102-1105 fibers can transmit light of wide wavelength ranges and high power and are ideal choices for photometry. 200-1100nm and 400-2200nm (light wavelengths) fibers and 1-to-1 type, Y-type, 1-to-M type, and M-to-M type fibers are available. YISIXT also provides fiber (corediameter, corenumber, length, material, structure, and connector) customization.

Transmission Curve



SIM-6102/SIM-6104 series, 200-1100nm

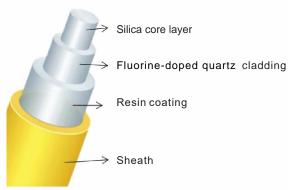


SIM-6103/SIM-6105 series, 400-2200nm

Inner structure

Optical fiber and probe

43-46



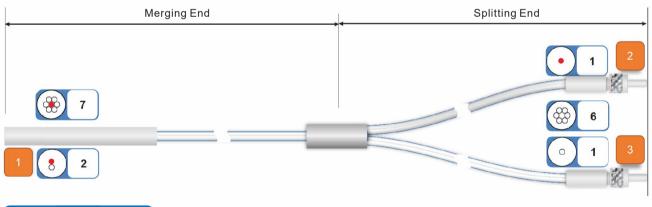


Quartz Fiber XOP-1102/1103/1104/1105

Specifications

XOP-1102	XOP-1103	XOP-1104	XOP-1105	
1-to-1 type	1-to-1 type	Y type	Y type	
200-1100nm	400nm - 2200nm	200-1100nm	400-2200nm	
Quartz				
Fluorine-doped quartz				
Acrylic resin				
Tefzel® (Teflon resin), etc.				
200 / 400 / 600 / 800 / 1000 μm				
5 / 50 / 100 / 150 / 200 cm, etc.				
0.22 ± 0.02				
Single core 85% (632.8 nm), multi core 65% (632.8 nm)				
Round / Square / Linear / Custom shapes				
SMA905/SMA906/FC/ST				
150D (short time), 300D (long time), D is the core diameter				
-40°C~ +100°C				
	1-to-1 type 200-1100nm Quartz Fluorine-doped quartz Acrylic resin Tefzel® (Teflon resin), e 200 / 400 / 600 / 800 / 10 5 / 50 / 100 / 150 / 200 cm 0.22 ± 0.02 Single core 85% (632.8 m Round / Square / Linear SMA905 / SMA906 / FC / 150D (short time), 300D	1-to-1 type 200-1100nm 400nm - 2200nm Quartz Fluorine-doped quartz Acrylic resin Tefzel® (Teflon resin), etc. 200 / 400 / 600 / 800 / 1000 µm 5 / 50 / 100 / 150 / 200 cm, etc. 0.22 ± 0.02 Single core 85% (632.8 nm), multi core 65% (632.8 Round / Square / Linear / Custom shapes SMA905 / SMA906 / FC / ST 150D (short time), 300D (long time), D is the core of	1-to-1 type	

Y-type Structure



Typical 7-core Y-type fiber

Raman Probe XOP-1131

Introduction

XOP-1131 series Raman probes are designed for 532, 785, 830, and 1064 nm laser-induced Raman spectrum measurements. With different sampling holders, samples in solid, liquid, or powder forms can be examined. OD6 optical interference filter effectively eliminates Rayleigh signals. Pairing with semiconductor lasers and spectrometers, the XOP-1131 series has wide applications.

Features

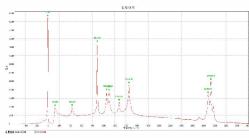
- Broader spectral range
- Good consistency
- Four wavelengths options
- OD6 filter effectively reduces the Rayleigh scattering



Specifications

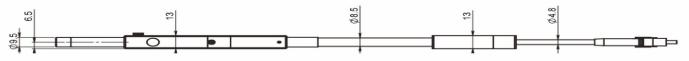
Central Wavelength (nm)	532	785	830	1064
Spectral Range (cm ⁻¹)	176 - 4000	176-3500	176-2800	200-3000
Working Method	Fiber In / Out			
Dimension (mm)	107 x 30 x 13			
Cut-off Depth	OD6			
Working Distance(mm)	7.5			
Splitting End	Core diameter 105µm, NA0.22, FC/PC or SMA905			
Merging End	Core diameter 200µm, NA0.22, SMA905			
Fiber Length(cm)	(100+30)±0.2			
Temperature(°C)	10-30			
Humidity	0-75% RH			

Typical Data

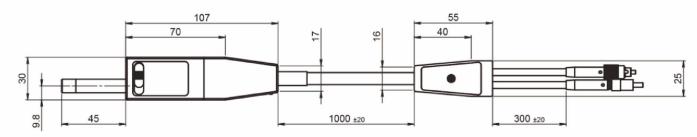


785 Raman Spectrum

Dimension



Side View



Top View

Immersion Fiber Probe XOP-1122

Cosine Corrector YOP-1026-01

Introduction

XOP-1122 series immersion fiber probes adopt Y-structure. Core diameter, core number, length, and connector type are customizable. The probe end can function as a small cuvette for real-time liquid sampling. XOP-1122 series probes, paired with spectrometers and light sources, are often used to measure the liquid's absorbance for water quality and biochemistry detection.

Features

- Reflectors of different optical path lengths
- Support diameter, core number, length, and connectors customization.

Applications

- Online water quality testing
- · Online biochemical testing



Specifications

XOP-1122-0615 XOP-1122-06		
600µm		
2		
UV resistant quartz fiber		
200-1100nm		
0.75m	1m	
0751m	1m	
-30~150 degrees		
XOP-1122-H02, gap is 2mm		
XOP-1122-H05, gap is 5mm		
XOP-1122-H10, gap is 10mm		
	600µm 2 UV resistant qua 200-1100nm 0.75m 0751m -30~150 degrees XOP-1122-H05, g	

Introduction

YOP-1026-01 cosine corrector is used for spectral radiation sampling. It can collect the light in the 180° solid angle and solve the optical coupling problem caused by the geometric structure limitation. The YOP-1026-01 can connect optical fiber or spectrometer through a SMA905 connector. It uses PTFE material and is of 3.9mm effective diameter and 200~1100nm wavelength range. It can be used for solar radiation, LED, laser, and ambient light measurement and analysis.

Features

- Collect light in the 180° solid angle
- PTFE material SMA905 connector



Applications

UVA & UVB solar radiation, LED, LASER, and ambient light measurement.

Specifications

Model	YOP-1026-01
Spectral Range	200nm-1100nm
Diffusers	Material: Spectralon PTFE
	Diameter: 3.9mm
	Thickness: 1mm
Dimension	Φ6.4×17.5mm
Field of View	180°
Fiber Connector	SMA905