

KEY FEATURES

- Y-cable bundle + FC adapter + disconnectable probe
- Withstands up to +400 °C
- (1+6) x 200 µm silica fibers
- VIS-NIR wavelength range
- Ø1/16" or M4 thread probe
- ST or SMA connectors
- 100% inorganic materials
- Robust

APPLICATIONS

- On/off sensors
- Reflection spectroscopy

QUALITY

- ISO 9001:2015

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Reflection probe fiber bundle

for up to +400 °C applications -
disconnectable probe -

We offer bifurcated fiber-optic reflection probe bundles for on/off sensors, with 100% inorganic materials. They are optimized for working at high-temperatures up to +400 °C.

Our disconnectable reflection probes feature:

- a Y-cable bundle with:
 - a source leg with 1 illumination fiber to carry light from a source to a sample.
 - a detector leg with 6 collecting fibers to carry the light reflected by the sample to a detector (photodiode, spectrometer or monochromator). The 6 fibers can be arranged either in a round or in a linear configuration.
- a disconnectable sample leg with 6 collecting fibers around 1 illumination fiber. The 7 fibers are sealed in:
 - either a Ø1/16" by 100 mm long probe barrel,
 - or in a M4 thread probe.
- an FC/FC adaptor to connect the sample leg to the Y-cable*.

Each leg uses Ø200 µm core silica/silica multimode fibers. The fibers are selected according to the desired wavelength range: VIS-NIR as a standard, or UV-VIS upon request.

Both the light source leg and the detector leg are terminated with an ST or SMA connector for compatibility with most spectrometers and light sources.

These reflection probe bundles are made entirely of stainless steel. The patch cables have reinforced stainless steel tubing for durability, and the connectors have a metallic ferrule.

Please contact us to discuss your specific requirements.



Reflection probe fiber bundle disconnectable probe for up to +400 °C

STANDARD PRODUCT SPECIFICATIONS

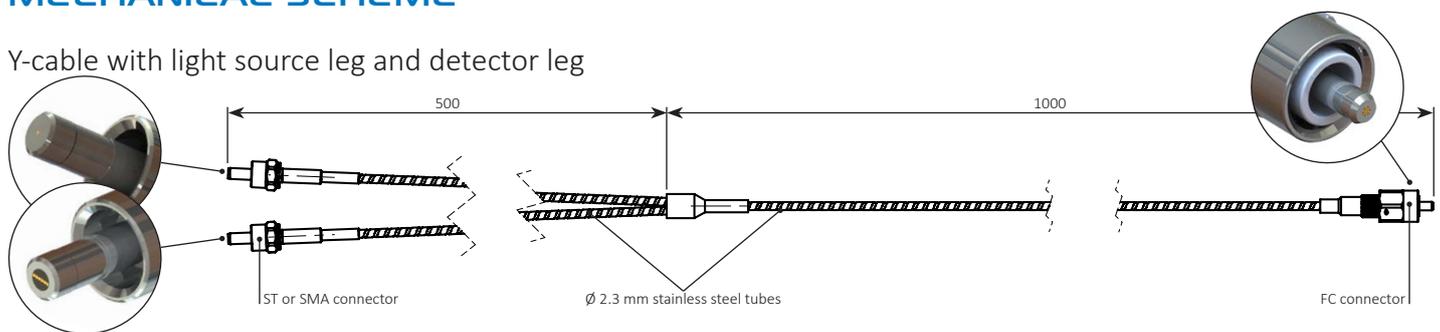
Y-cable		
Legs	light source leg	detector leg
Number of fibers	1	6
Configuration	single fiber	round or linear bundle
Termination	ST or SMA connector	ST or SMA connector
Legs length	50 cm	50 cm
Total length	2.5 m	

Disconnectable sample leg		
Number of fibers	6 + 1	
Configuration	round fiber	
Termination	Ø1/16" probe	M4 thread probe
Leg length	1 m	

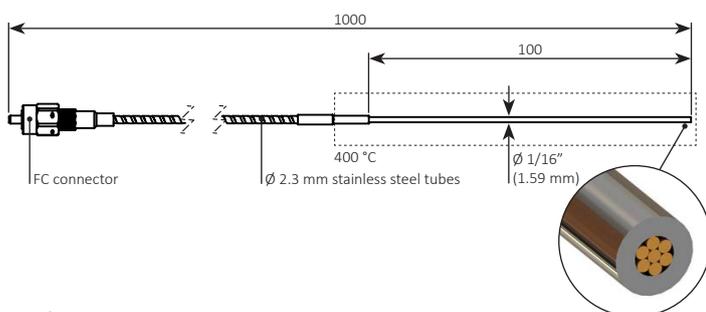
Other specifications	
Protective tubings	Ø2.3 mm stripwound hose type tube in stainless steel 304 alloy
Fiber type	selection of 200 µm core diameter silica/silica fibers with 0.22NA depending on the wavelength range
Wavelength range	standard: VIS-NIR; upon request: UV-VIS
Long-term temperature	≤ 400 °C

MECHANICAL SCHEME

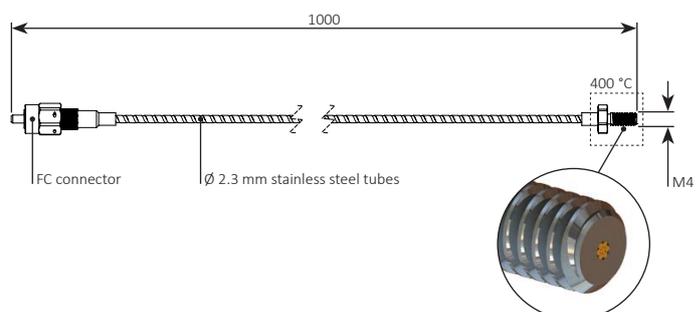
Y-cable with light source leg and detector leg



Disconnectable sample leg: Ø1/16" probe



Disconnectable sample leg: M4 thread probe



FC/FC interconnection



*The Y-cable and the sample leg are interconnected through a specific multichannel FC/FC adaptor interface that respects the mapping of the illumination and collecting fibers.

Order now

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