

Fiberoptic Probes – Standard Dip/Absorption/Transflectance



DESCRIPTION

RoMack's dip style absorption probes, truly represent a significant leap forward in fiberoptic probe design and quality control. Responding to the needs of the widely varying requirements for scientists and process or quality control engineers, RoMack has produced a very versatile and robust series of probes.

These probes provide a convenient way to perform absorption or transmission measurements by dipping or inserting the probe end into the medium or environment.

World class inspection and control tools guarantee that all probes meet or exceed specifications every time and each probe is subjected to a

twelve point inspection process. Whenever possible RoMack will specifically test each probe in the environment in which they are intended to be used.

RoMack further assures the quality of all probes by issuance of a certificate of conformance and transmission vs wavelength curves for each and every probe shipped

INTERFACING NOTE:

Most of RoMack's probes can be used as direct plug-and-play accessories for existing fiberoptic systems currently in use.

**RoMack Probes -
"Better by Design."**

APPLICATIONS

- Absorption or Transflectance for use in:
 - Pharmaceutical dissolution
 - On-line process control
 - Laboratory dip spectroscopy
 - Medical

FEATURES

- Highest throughput in the industry.
- Robust design that minimizes stray light.
- Transmission data with every probe.
- Every seal checked.
- Superior design minimizes bubbles and trapped liquid.
- Industry standard or custom terminations.
- Custom configurations and instrument or process interfaces available.
- Interchangeable path length tips.
- UV/VIS and VIS/NIR versions.
- 200µm, 400µm and 600µm core standard (other single fiber or multi-fiber bundle designs can also be provided).
- Standard probe diameters of 1/4" (6.35mm) to 1/2" (12.7mm).
- Custom configurations available.

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ORDERING/SPECIFYING INFORMATION

• These probe products can be ordered using the specifying system represented on this page.

• If you have any trouble with the specifying system or have any special requirements not accommodated or shown, please contact a RoMack sales associate.

NOTES

• Probes are often used in harsh environments so if you have any questions about the applicability of a probe for your environment please speak to a RoMack applications engineer or sales associate.

The diagram illustrates a fiberoptic probe with various components and dimensions. The Breakout Length (BOL) is the distance from the connector to the start of the fiber. The Overall Length (OAL) is the total length of the probe. The Probe Length (PL) is the length of the fiber tip. Callouts A, B, C, D, and E indicate specific parts: A is the fiber type, B is the fiber size, C is the connector, D is the probe diameter, and E is the path length.

<p>A Fiber Type</p> <ol style="list-style-type: none"> 1) Silica/Silica (UV/VIS) 2) Silica/Silica Low Solarization (UV) 3) Silica/Silica (VIS/NIR) 4) Polymer Clad Silica(UV/VIS High NA) 5) Polymer Clad Silica(VIS/NIR High NA) 6) Other _____ 	<p>B Fiber Size</p> <table border="0"> <tr> <td>1) 100µm</td> <td>5) 500µm</td> </tr> <tr> <td>2) 200µm</td> <td>6) 600µm</td> </tr> <tr> <td>3) 300µm</td> <td>7) Other _____</td> </tr> <tr> <td>4) 400µm</td> <td></td> </tr> </table>	1) 100µm	5) 500µm	2) 200µm	6) 600µm	3) 300µm	7) Other _____	4) 400µm		<p>C Connector</p> <ol style="list-style-type: none"> 1) SMA 2) FC 3) ST 4) Other _____
1) 100µm	5) 500µm									
2) 200µm	6) 600µm									
3) 300µm	7) Other _____									
4) 400µm										
<p>D Probe Diameter</p> <ol style="list-style-type: none"> 1) Ø0.125" 2) Ø0.250" 3) Ø0.125" steep up to Ø0.250" (shown) 4) Ø0.500" 5) Other _____ 	<p>E Path Length*</p> <ol style="list-style-type: none"> 1) 2mm 2) 5mm 3) 10mm 4) 20MM 5) Other _____ 	<p>*Double the gap measurement at "E" for path length.</p> <p>Specifying Method</p> <p>AS - <u>A</u> <u>B</u> <u>C</u> <u>D</u> <u>E</u> <u>X</u> <u>X</u> (PL-in)</p> <p>Example : AS-17133 06 AS- <u>1</u> <u>7</u> <u>1</u> <u>3</u> <u>3</u> <u>0</u> <u>6</u> (in)</p> <p>Silica/Silica (UV/VIS), 600 micron , SMA connector, 6 in. probe length, 10mm path length</p> <p>Please contact RoMack regarding replaceable path length tips, or environmental concerns.</p>								
<p>Temperature Requirements: _____</p> <p>Pressure Requirements: _____</p> <p>Other Requirements: _____</p> <p>_____</p> <p>_____</p>										

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