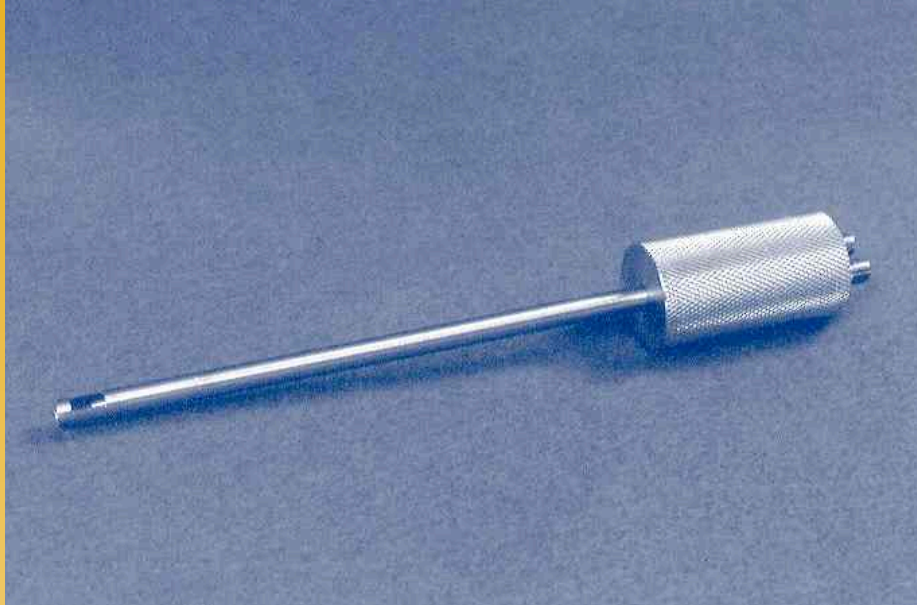


## Fiberoptic Probes for NIR Applications



### 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 targeted at NIR applications.

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 Transmittance for use in:
  - On-line process control
  - Laboratory dip spectroscopy
  - Medical and Pharmaceutical testing

### FEATURES

- Highest throughput in the industry.
- Robust designs.
- Unique designs for NIR applications.
- 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.
- 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.

# Fiberoptic Probes for NIR Applications

## 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.

**A** Fiber Type

- 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 \_\_\_\_\_

**B** Fiber Size

1) 50µm	6) 500µm
2) 100µm	7) 600µm
3) 200µm	8) 800µm
4) 300µm	9) 1,000µm
5) 400µm	10) Other _____

**C** Connector (female)

- 1) SMA
- 2) FC
- 3) ST
- 4) Other \_\_\_\_\_

**D** Probe Diameter

- 1) Ø0.250
- 2) Ø0.375
- 3) Ø0.500
- 4) Other \_\_\_\_\_

**E** Path Length\*

- 1) 2mm
- 2) 5mm
- 3) 10mm
- 4) 20MM
- 5) Other \_\_\_\_\_

\*Double the gap measurement at "E" for path length.

**Specifying Method**

AN - A B C D E X X (PL-in)

**Example :** AN-17143 06  
 AN - 1 7 1 4 3 0 6 (in)

Silica/Silica (UV/VIS), 600 micron , SMA connector , , 6 in. probe length, 10mm path length.

**Temperature Requirements:** \_\_\_\_\_  
**Pressure Requirements:** \_\_\_\_\_  
**Other Requirements:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Please contact RoMack regarding high temperature, chemical, vacuum, or any other environmental concerns.

# RoMack inc.

5583 Mooretown Road • Williamsburg, VA 23188

**Phone:** 757-258-4805

**Fax:** 757-258-4694

**E-Mail:** contact@romackfiberoptics.com