

Features and Benefits

- Excitation and signal collection fibers in a single probe
- Virtually any configuration of “mapping” is possible
- Same unit can be used for several measuring techniques
- Signal collection fibers can easily be configured into a still aperture to match certain instruments
- Available in deep UV, UV/VIS and VIS/NIR versions
- Various fiber optic connectors, ferrules and fittings are available

Applications

- Fluorescence
- Raman
- Reflectance
- General Sensing

FO-F Series Precision Fiber Arrays

RoMack Inc.

Precision spaced arrays are simply fiber optic assemblies comprised of multiple fibers located in very exact locations relative to one another. Typically, these devices are used to match laser diode arrays or as optical switch sub-components.

In laser diode applications, the arrays are fabricated so that the individual fibers are precisely located to match multi-diode junction bars and arrays. The fibers can be arranged in virtually any linear or two-dimensional pattern and AR coatings can be provided as well.

The output side of fibers can be likewise arranged in virtually any pattern, but a common application is a very closely packed circular aperture in which individual fibers have been stripped down to the cladding. This provides the smallest and highest energy density aperture.

In optical switch applications, precision is again the key. Arrays are usually two-dimensional and made in matched pairs so each pair is comprised of two identical arrays.

RoMack's capabilities can address specialty or OEM applications by providing end fittings, housings and ferrules to suit the application. Call Fiber Optic Center for information.

SPECIFICATIONS

Fiber transmission curves and other performance details can be provided. Call Fiber Optic Center.

ORDERING INFORMATION

FO-F series products need to be specified with regard to their aperture shapes and sizes, lengths, fiber type and end terminations, along with any specialty information.

The part numbering system is an effort to accommodate the most commonly ordered bundles and arrays, but the possible configurations that fall under this product area are limited only by the imagination and the range of applications that require fiber optic assemblies like these. If the device required does not conform to the part numbering system described below, please call Fiber Optic Systems for expert assistance.

The end terminations or end fittings possible are also unlimited. Some standard fitting have been included below, but virtually any configuration can be provided. Call to discuss your needs.

Part Numbering System**FO - F A B C / D / E F G H / I J****A = Fiber Type**

- 1 - Silica/Silica (UV/VIS)
- 2 - Silica/Silica (VIS/NIR)
- 3 - Hard Clad/Silica (UV/VIS)
- 4 - Hard Clad/Silica (VIS/NIR)
- 5 - Plastic Clad Silica (UV/VIS)
- 6 - Plastic Clad Silica (VIS/NIR)
- 7 - Solorization Resistant
- 8 - Flouride Glass

B = Fiber Size

- 1 - 100 μ core
- 2 - 200 μ core
- 3 - 300 μ core
- 4 - 400 μ core
- 5 - 500 μ core
- 6 - 600 μ core
- 8 - Other (contact FOC)

C / D / E = Termination Style (Source/Signal/Probe)

- 1 - SMA
- 2 - AT&T Type ST
- 3 - 1/4" \varnothing x 1.5" Lg Ferrule
- 4 - 3/8" \varnothing x 1.5" Ferrule
- 5 - 187" \varnothing x .5" Lg / .310" \varnothing x .75" Lg Stepped Ferrule

F = Overall Length (cm, four digits)

Ex: 0100 = 100 cm

Note: Legs split off at mid-length unless otherwise specified.

G = Sheathing Type

- 1 - PVC covered steel (monocoil)
- 2 - SST BX -
- 3 - Furcation Tubing
- 4 - Other

H / I = Probe End / Signal End Configuration

Ex: Round/Line

J = Probe End Mapping

- 1 - 6 around 1
- 2 - 18 around 1
- 3 - 60 around 1
- 4 - Other (Call FOC)

FOR ADDITIONAL INFORMATION ON THIS OR OTHER PRODUCTS AND THEIR AVAILABILITY, PLEASE CONTACT FIBER OPTIC CENTER, INC.