



RECOGNIZED WORLD LEADER IN FIBER OPTIC TECHNOLOGY  
QUALITY FIBER COMPONENTS, EQUIPMENT, & SUPPLIES

## Product Data Sheet

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### Fiber Optic Kits

#### Experimenter's Kits

IFO's least expensive kit—ideal for designing experiments, original science projects, and short distance optical isolation applications. Included are one meter of 1000  $\mu\text{m}$  plastic optical fiber, matched LED and photodetector, (IF-E91A and IF-D92 respectively) fiber optics connectors, instructional design information and application hints. This kit is recommended for beginning hobbyists, experimenters and students.

#### Executive Overview of Fiber Optics

An invaluable fiber optics primer for business people in sales, management, purchasing and other non-technical professions linked to the financial potential of fiber optics developments, this handbook approaches the subject non-mathematically and separates it into sections on the principles of fiber optics, system components, (such as the fiber itself, receivers and transmitters), optical inter-connects, completed systems, test equipment and tools. Includes a list of references (books, magazines, and professional organizations) and glossary of terms used in the handbook and the field of fiber optics. No prior knowledge of the subject is needed to understand and benefit from the business-potential discussions in this handbook. Revisions to accommodate technological advances are published regularly and constitute an important market survey tool.

#### Fiber Sample Kits

These kits were designed for beginning experimenters in fiber optics. Each contains an assortment of fiber core diameters and constructions. The Optical Sample Kit includes fibers and fiber lengths commonly used for illumination projects and model airplane, auto and railroad building. The Communications Sample Kit includes fibers and fiber lengths used in data communication applications.

#### Fiber Assortment Kits

An economical assortment of six types of fibers including glass fibers, jacketed and unjacketed plastic fibers, multi-fiber light guides and coherent fiber bundles. This assortment would be far more costly if purchased separately. The twelve type assortment also includes scintillating fibers, fiber optic "TV" stone and coherent light guides.

#### 17 Simple Fiber Optics Experiments

An inexpensive kit for introducing young scientists to the many new and fascinating developments in fiber optic technology. Kit contains 17 fun and easy-to-conduct experiments and projects including image magnification, Scintillating fibers, fiber optics light tree, image inverter, Nature's "TV" stones, and constructing a light guide.

Package includes scintillating fiber, coherent light guides, ball magnifier, image stone, fiber optic face plate, lens, 2-cell pinlight, lenses, accessories, assorted optical fibers and an easy-to-follow instruction guide with helpful illustrations. Some common household items, such as batteries, cardboard and tape, are required. Great for children between ages 10 and 16. No prior electronics experience required.



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### Specifications

#### Communications Sample Kit includes:

Jacketed: 1000  $\mu\text{m}$  dia.simplex/1.5 m  
1000  $\mu\text{m}$  dia.duplex/1.5 m  
Unjacketed: 250  $\mu\text{m}$  dia./1.5 m  
500  $\mu\text{m}$  dia./1.5 m  
750  $\mu\text{m}$  dia./1.5 m

#### Optical Sample Kit includes:

Jacketed: 1000  $\mu\text{m}$  dia./1.5 m  
1500  $\mu\text{m}$  dia./6 m  
2000  $\mu\text{m}$  dia./6 m  
16 x 265  $\mu\text{m}$  bndl/.3  
32 x 265  $\mu\text{m}$  bndl/.3  
48 x 265  $\mu\text{m}$  bndl/.3  
64 x 265  $\mu\text{m}$  bndl/.3  
Unjacketed: 250  $\mu\text{m}$  dia./1.5 m  
500  $\mu\text{m}$  dia./6m  
750  $\mu\text{m}$  dia./6m

### Ordering Information

IF-E10	Experimenter's Kit	IF-53884	Communications Sample Kit
IF-EF01	Executive Overview of Fiber Optics	IF-FGB2	Twelve Fiber Type Assortment
IF-53883	Optical Sample Kit	IF-E60	17 Simple Fiber Optics Experiments Kit