

Specialty Fibers

High-Performance Optical Fiber Technology

Precision Fiber Products, Inc. (PFP) offers advanced solutions in multimode and single-mode optical fibers, designed to maximize performance across industrial Medical and Speciality applications.

Our technology ensures efficient data transmission, high durability, and adaptability to demanding environments.

Multimode vs. Singlemode Fibers

- **Multimode Fiber:** Ideal for short to medium-distance data transmission with higher bandwidth capacity.
- **Single-Mode Fiber:** Perfect for long-distance communication with minimal signal loss, ensuring high fidelity.

Key Features

- **Low Attenuation:** Optimal signal transmission with minimal loss.
- **Extensive Customization:** Flexible core diameter options (40 μm - 800 μm) and numerical aperture (NA) ranging from 0.10 to 0.34.
- **High Mechanical Strength:** Engineered to withstand extreme conditions.
- **Design Versatility:** Adjustable core-cladding diameter ratio (CCDR) from 1.05 to 1.4.
- **Universal Compatibility:** Seamless integration with optical devices.

Diverse Industry Applications

- **Medical and Speciality Industry:** Precision diagnostic and treatment equipment.
- **Industrial Automation:** Advanced sensors and monitoring systems.
- **Laser Technology:** Efficient laser energy transmission for various uses.
- **Optical Devices:** Custom connectors, adapters, and specialized systems.

PFP's Competitive Advantages

- **Technological Innovation:** Advanced manufacturing processes ensure quality and precision.
- **Reliability and Durability:** High-performance materials for demanding environments.
- **Specialized Technical Support:** Personalized consulting for every project.

Scan the QR code below to access data sheets for our specialty fibers and additional information that may be of interest.

