

MEDFIBER TECHNOLOGY

Medical Lipolysis Fiber Technical Manual

High-Precision Laser Delivery Systems for Body Contouring & Endolift

1. Product Overview

Medfiber's medical-grade Lipolysis Fiber is specifically designed for minimally invasive body contouring, submental fat reduction, and facial lifting procedures. Utilizing a high-purity silica core, this fiber offers exceptional flexibility and superior optical transmission efficiency. It perfectly matches mainstream diode and Nd:YAG laser platforms operating at 980nm, 1064nm, 1440nm, and 1470nm.

During surgical procedures, the Lipolysis fiber not only efficiently liquefies adipocytes but also generates a targeted thermal effect that stimulates subcutaneous collagen remodeling. This dual action achieves immediate skin tightening while minimizing thermal damage and postoperative recovery time.

2. Core Clinical Advantages

- **Zero-loss Delivery:** Ensures stable laser energy output, completely eliminating the risk of tip carbonization caused by overheating.
- **High Flexibility & Durability:** The fiber core undergoes a reinforced drawing process, ensuring it remains intact even when navigating complex subcutaneous tunnels, maximizing surgical safety.
- **Universal Compatibility:** Equipped with high precision standard SMA905 connectors for plug-and-play functionality, compatible with the vast majority of global medical laser systems.
- **Minimally Invasive:** Ultra-thin core diameters (e.g., 400 μ m) allow for micro-incisions, significantly reducing postoperative bruising and edema for patients.

3. Technical Specifications

Lipolysis Fiber Specifications

Core Material	High-purity Medical Grade Silica
Core Diameters	400 μ m / 600 μ m / 800 μ m (Optional)
Numerical Aperture (NA)	0.22 or 0.37
Operating Wavelengths	800nm - 2200nm (Optimized for 980nm / 1064nm / 1470nm)
Connector Type	Standard SMA905 (Bare fiber options available)
Fiber Jacket / Coating	Biocompatible Tefzel / ETFE

4. Exclusive OEM & ODM Customization Services

Empower Your Medical Brand with Medfiber

As a leading manufacturer of medical fibers, Medfiber understands the unique clinical requirements of every medical device brand. We offer comprehensive **OEM (Original Equipment Manufacturer)** and **ODM (Original Design Manufacturer)** solutions for global medical device companies, laser manufacturers, and distributors:

- **Private Labelling:** Custom brand printing on connectors, outer packaging, and labels to enhance your brand identity.
- **Custom Specifications:** Non-standard core diameters, specific jacket colors, and custom fiber lengths tailored to your specific laser parameters.
- **Connector R&D:** Custom connector development and adaptation for closed-source systems with RFID or specific locking mechanisms.
- **Clinical Kits Assembly:** Complete sterile surgical lipolysis kits, including introducer needles and micro-cannulas.

5. Global Support & Contact

Ready to Enhance Your Laser Systems?

Contact our engineering team today to get the latest quotes, request test samples, or discuss your customized projects.

Business & Technical Inquiry Email:

info@medfiber.com

Wuhan Medfiber Technology Co., Ltd.