



Medical Laser Power Delivery fibers include pure silica core step-index waveguides supporting a broad range of wavelengths from visible to 2.2 µm. Core sizes range from 200 µm to 550µm with numeric apertures up to 0.24. For laser surgery applications where beam homogeneity is critical, Flat-Top™ technology can be incorporated. A range of biocompatible coatings and buffers offered including polyimide, acrylate, silicone and Tefzel®. Sterilization by radiation or ETO; supported by radiation resistant pure silica core fiber and coating material choice.

Typical Applications

- Endoscopy
- Dentistry
- Ophthalmology
- Photodynamic Therapy
- Surgical Procedures

Features & Benefits

- Step Index Core diameters ranging from 200 μm 550 μm
- High numeric apertures up to 0.24
- Cladding diameters from 240 µm to 600 µm
- Biocompatible coatings: polyimide, acrylate, silicone
- Buffers include Hytrel®, Tefzel®

Optical Specifications	MM-S200/240-FTB 1404842	MM-S272/300-FTB 1404843	MM-S365/400-FTB 1404844	MM-S550/600-FTB 1404845
Operating Wavelength	375 – 2200 nm			
Core NA	0.220 ± 0.020	0.220 ± 0.020	0.220 ± 0.020	0.220 ± 0.020
OH Level	low	low	low	low
Geometrical & Mechanical Specifications				
Cladding Diameter	240.0 ± 3.0 μm	300.0 ± 6.0 μm	400.0 ± 8.0 μm	600.0 ± 10.0 μm
Core Diameter	200.0 ± 4.0 μm	272.0 ± 10.0 μm	365.0 ± 8.0 μm	550.0 ± 12.0 μm
Coating Diameter	270.0 ± 8.0 μm	$330.0 \pm 8.0 \mu m$	440.0 ± 10.0 μm	640.0 ± 10.0 μm
Core/Clad Offset	≤ 5.00 µm	≤ 5.00 µm	≤ 5.00 µm	≤ 7.00 µm
Coating Material	Low Index Acrylate	Low Index Acrylate	Low Index Acrylate	Low Index Acrylate
First Buffer Diameter	335 ± 30 μm	$370.0 \pm 30.0 \ \mu m$	520.0 ± 30.0 μm	$730.0 \pm 30.0 \mu m$
Second Buffer Material	Tefzel®: Blue	Tefzel®: Blue	Tefzel®: Blue	Tefzel®: Blue
Operating Temperature Range	-55 to 85 °C			
Prooftest Level	≥ 100 kpsi (0.7 GN/m²)			

Instrumentation grade versions for each fiber are also available.



