

Laser Delivery Passive Fibers j-PFL

j-fiber offers a comprehensive solution of optical fibers for laser delivery for advanced mid to high-power fiber lasers



All fibers and preforms are subject to j-fiber's ongoing process and quality improvement programs ensuring excellent performance and high reliability. We reserve the right to make changes to the above specification without notice.

Copyright © 2010 j-fiber GmbH
Confidential with regard to ISO DIN 16016

DB-FFO-001-02-0310
Issued March 2010
Supersedes DB-FFO-001-01-0608

Officially registered facility according to EWG No. 1836/93



For further information about our j-PFL and other j-fiber products and services, please contact us:

j-fiber GmbH
Im Semmicht 1
D-07751 Jena, Germany
Tel.: +49-3641-352 100
Fax: +49-3641-352 101
Email: info@j-fiber.com
Internet: www.j-fiber.com

j-fiber's portfolio of passive fibers provide for maximum pump power efficiency and high-performance output power transmission in fiber laser applications. They have been designed for perfect match to the diameter and NA of our j-fiber series of ytterbium doped double-clad active fibers. Based on our own preform design and make, we can also provide customized passive fiber solutions to any of our client's active fiber specifications.

Application

- Fiber Lasers and Amplifiers
- Fiber Laser Components
- High-efficiency Resonator Fibers
- High-performance output power delivery

Features and Benefits

- Designed for match to j-fiber active fibers and industry standard active fiber geometries
- Maximum pump power efficiency
- Minimum signal and coupling losses
- For quality enhanced, cost and time saving laser manufacturing processes

Specifications

| Passive Fiber Design | j -PFL 7/130 | j -PFL 12/400 | j -PFL 15/250 | j -PFL 20/400 |
|-------------------------|-------------------|-------------------|-------------------|-------------------|
| Core Diameter | 7±1 | 12±2 | 15±2 | 20±2 |
| Cladding Diameter | 130±3 | 400±15 | 250±5 | 400±15 |
| Coating Diameter | 250±15 | 520±15 | 340±15 | 520±15 |
| Outer Cladding Material | Low Index Polymer | Low Index Polymer | Low Index Polymer | Low Index Polymer |
| Core NA | 0.12±0.02 | 0.12±0.02 | 0.08±0.015 | 0.06±0.01 |
| Cladding NA | 0.46 | 0.46 | 0.46 | 0.46 |
| Matching Active Fiber | j-YDCF 7/130 | j-YDCF 12/400 | j-YDCF 15/250 | j-YDCF 20/400 |

For one-stop-solutions check our portfolio of pump fibers.