itf Technologies
Member of O-Net Group

One Name in Beam Quality

MULTIMODE
COMPONENTS

Speciality Components

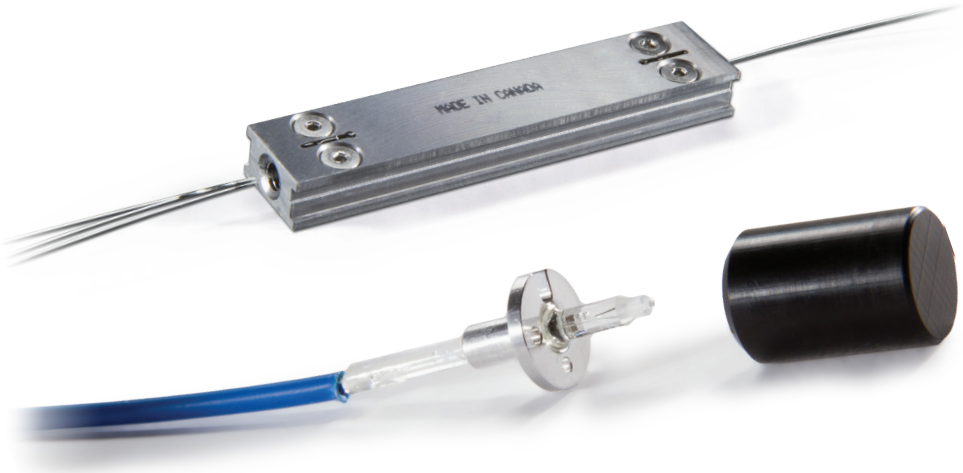
For Fiber Lasers and Amplifiers

ITF Technologies' speciality components are designed to support the fiber laser designs and manufacturing. These components includes Mode Field Adaptors, Cladding Mode Strippers and Endcaps. They all feature exceptional optical characteristics to help you achieve the best fiber laser or amplifier performance.

ITF Technologies' Mode Field Adaptors (MFA) expands the mode field of a single mode fiber to match the size of the fundamental mode (LP01) of a Large Mode Area (LMA) output fiber. This ensures maximum power transmission and minimum degradation of the signal quality (M^2). Some design can also convey forward pump light for pulsed amplifier designs.

ITF Technologies' cladding mode strippers are designed to absorb residual cladding pump light, ASE or escaped core modes in double clad fibers (DCF). Cladding light is absorbed from the full fiber NA of 0.46 down to the core NA. Signal Power and Beam Quality are preserved with minimal loss. Available in PM and non-PM fibers.

ITF Technologies' End Caps are designed for high power fiber laser and amplifier termination. They feature beam expansion to reduce output power density, are optically flat and can be AR coated . They are designed for operation at high peak or average power, with minimal beam distortion. Not designed for material processing applications.



KEY FEATURES

MODE FIELD ADAPTERS

- High Power Transfer Efficiency
- Preservation of Modal Content
- Wavelength Insensitive
- Custom Configurations Available
- ROHS Compliant

CLADDING POWER STRIPPERS

- High Power Handling
- High Power Absorption
- Minimal Signal Loss
- ROHS Compliant

END CAPS

- Excellent ORL
- Low Beam Distortion

APPLICATIONS

- Fiber Lasers
- Fiber Amplifiers
- Industrial, Telecom, Medical & Research

FOR MORE INFO

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Speciality Components FOR FIBER LASERS AND AMPLIFIERS

Modes field adapters - Standard signal operating wavelength range: 1040-1080 nm
Power handling - signal: 100 W - Signal optimized for beam quality transmission: Typical <0.5 dB fundamental mode loss

SIGNAL FIBER	OUTPUT FIBER	PRODUCT CODE
HI1060	25/250 um NA=0.06/0.46	MFA100S2101
HI1060	25/250 um NA=0.11/0.46	MFA100S2121
HI1060	20/400 um NA=0.06/0.46	MFA100S2021
PM980	PM 25/250 um NA=0.06/0.46	PFA100S2051
PM980	PM 25/250 um NA=0.11/0.46	PFA100S2061
PM980	PM 20/400 um NA=0.06/0.46	PFA100S2021
10/125 um NA=0.08/0.46	25/250 um NA=0.06/0.46	MFA100S7101
10/125 um NA=0.08/0.46	25/250 um NA=0.11/0.46	MFA100C8531
10/125 um NA=0.08/0.46	20/400 um NA=0.06/0.46	MFA100S7021
PM 10/125 um NA=0.08/0.46	PM 25/250 um NA=0.06/0.46	PFA100S7051
PM 10/125 um NA=0.08/0.46	PM 25/250 um NA=0.11/0.46	PFA100S6061
PM 10/125 um NA=0.08/0.46	PM 20/400 um NA=0.06/0.46	PFA100S6021

Cladding power strippers - Standard signal operating wavelength range: 800-1000 nm
Power handling: 50 W - Maximum signal insertion loss (dB): < 0.1 dB

SIGNAL FIBER	PRODUCT CODE
25/250 um NA=0.06/0.46	CPS10011
PM 25/250 um NA=0.06/0.46	CPS10055
25/250 um NA=0.11/0.46	CPS10022
PM 25/250 um NA=0.11/0.46	CPS100C6043
20/400 um NA=0.06/0.46	CPS10033
PM 20/400 um NA=0.06/0.46	CPS10077

End caps - Standard signal operating wavelength range: 1040-1080 nm - Power handling (signal): up to 500 W

SIGNAL FIBER	OUTPUT FIBER	PRODUCT CODE
20/400 um NA=0.06/0.46	Free space, 6° angle	EC1003061
20/400 um NA=0.06/0.46	Free space, AR coated, 0° angle	EC100C8586

ORDERING INFO

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PACKAGE DIMENSIONS
High Power: 60.0 x 12.0 x 6.5 mm

Additionnal fiber configurations and operation wavelengths available

Typical power handling presented
Custom designs and prototypes also available

O-Net Communications