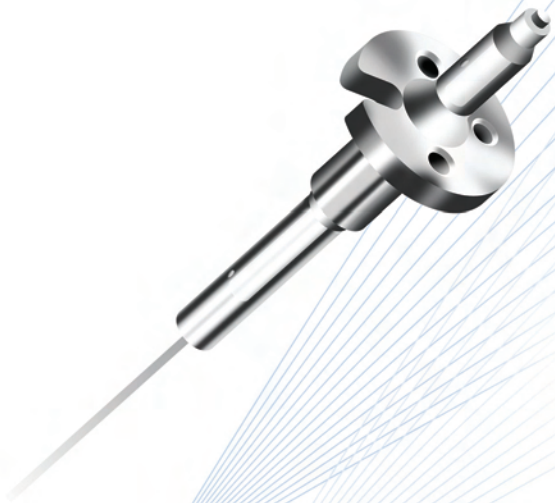
itf Labs

MULTIMODE COMPONENTS

End Cap

ITF Labs' End Caps are designed for high power fiber laser and amplifier termination. They feature beam expansion to reduce output power density, and an optically flat termination angle, which reduces the back reflection to better than -35dB. They are designed for operation at high peak or average power, with minimal beam distortion. Versions are available with a variety of fibers, including PM designs, the principal axis of which is keyed and aligned to the output face angle.



KEY FEATURES

- **High ORL**
- **Low Beam Distortion**
- **Large Beam Expansion**

For more information on this or other products and their availability, please contact our customer service at **514.748.4848** (Int'l) / **1.888.922.1044** (Canada and USA only) or via e-mail at info@itflabs.com

MULTIMODE COMPONENTS

End Cap

SPECIFICATIONS

STANDARD CONFIGURATIONS

Product Code	EC1003061	EC1005061	EC1004061	EC1007061	EC1009061	EC1008061
Optical Specifications						
Operating Wavelengths	1040-1080 nm					
Endcap Polished Angle (1)	6 +/-0.5°					
Output Beam Angle (2)	87 +/-1.5°					
Signal Input Fiber (3) Core/clad diameter NA	20/400 µm 0.06/0.46	PM 20/400 µm 0.06/0.46	25/250 µm 0.11/0.46	PM 25/250 µm 0.11/0.46	30/250 µm 0.06/0.46	PM 30/250 µm 0.06/0.46
Maximum Power Handling - Signal	250 W					
Maximum Power Handling - Cladding (4)	25 W					
Output MFD (5)	270-390 µm		260-390 µm		200-300 µm	
Optical Return Loss - Signal	> 45 dB					
Mechanical Specifications						
Fiber Pigtail Length Input (6)	A= 1000 mm B= 2000 mm C= 3000 mm					

(1) Angle from 0 to 10° available.
(2) From datum reference plane, see PSS.
(3) Custom fiber available on request.
(4) Device not designed to remove cladding light.
(5) For LP01 core injection. MFD evaluated at 13.5% clip level.
(6) Pricing is dependant on fiber pigtail length.

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PATENT PENDING

ORDERING INFORMATION

For standard products, please use product codes specified above. ITF Labs can also develop custom multimode power combiners to meet a wide range of technical requirements.

ITF Labs
400 Montpellier Blvd
Montreal, Quebec H4N 2G7 CANADA
Tel: 514.748.4848
Fax: 514.744.2080
1.888.922.1044
www.itflabs.com info@itflabs.com