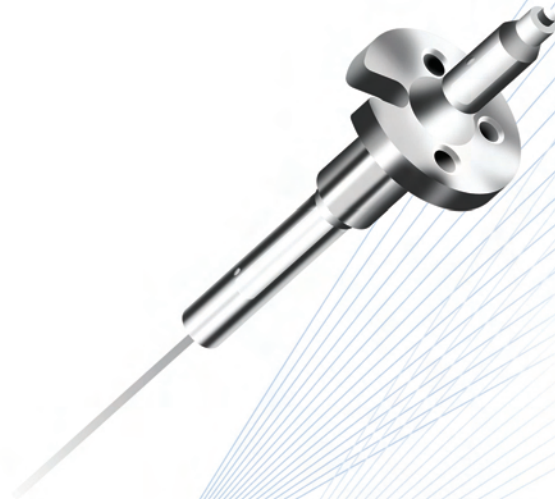




## MULTIMODE COMPONENTS

### 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.



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](mailto:info@itflabs.com)

#### KEY FEATURES

- High ORL
- Low Beam Distortion
- Large Beam Expansion



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# MULTIMODE COMPONENTS

## End Cap

### SPECIFICATIONS

#### STANDARD CONFIGURATIONS

Product Code	EC1003061	EC1005061	EC1004061	EC1007061	EC1009061	EC1008061
<b>Optical Specifications</b>						
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					
<b>Mechanical Specifications</b>						
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

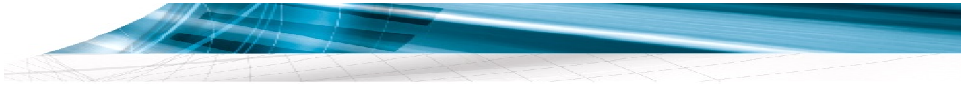
Fax: 514.744.2080

1.888.922.1044

www.itflabs.com info@itflabs.com

# エンドキャップ (non-PMタイプ) 製品リスト

詳細仕様がが必要な場合は、PART#をお知らせ下さい。データシートをご用意致します。



END CAPS			
Angle	PART #	INPUT PORT	OUTPUT PORT
non PM			
6 ± 0.5 °	EC100C4309	9/125 um NA=0.12/0.46	Free Space
8 ± 0.5 °	EC100C5030	10/125 um NA=0.08	Free Space
8 ± 0.5 °	EC100C3053	10/125 um NA=0.08/0.46	Free Space
8 ± 0.5 °	EC100C4300	20/125 um NA=0.11/0.46	Free Space
8 ± 0.5 °	EC100C4719	20/125 um NA=0.12	Free Space
8 ± 0.5 °	EC100C4720	25/125 um NA=0.10	Free Space
8 ± 1 °	EC100C4226	15/130 um NA=0.08/0.46	Free Space
6 ± 0.5 °	EC100C5725	20/200 um NA=0.11/0.46	Free Space
6 ± 0.5 °	EC1003061	20/400 um NA=0.06/0.46	Free Space
8 ± 0.5 °	EC1003081	20/400 um NA=0.06/0.46	Free Space
8 ± 0.5 °	EC1003083	20/400 um NA=0.06/0.46	Free Space
6 ± 0.5 °	EC1004061	25/250 um NA=0.06/0.46	Free Space
8 ± 0.5 °	EC1004081	25/250 um NA=0.06/0.46	Free Space
8 ± 0.5 °	EC1006081	25/250 um NA=0.11/0.46	Free Space
6 ± 0.5 °	EC100C4908	25/300 um NA=0.06/0.46	Free Space
6 ± 0.5 °	EC100C3127	25/400 um NA=0.06/0.46	Free Space
6 ± 0.5 °	EC100C4820	25/400 um NA=0.11/0.46	Free Space
8 ± 0.5 °	EC100C3107	25/400 um NA=0.11/0.46	Free Space
8 ± 0.5 °	EC100C3055	30/240 um NA=0.07/0.46	Free Space
6 ± 0.5 °	EC1009061	30/250 um NA=0.06/0.46	Free Space
8 ± 0.5 °	EC100C2923	30/250 um NA=0.06/0.46	Free Space
8 ± 0.5 °	EC100C4721	30/250 um NA=0.11	Free Space



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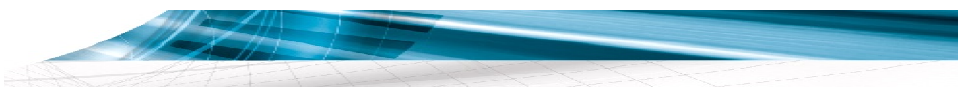
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# エンドキャップ (PMタイプ) 製品リスト

詳細仕様がが必要な場合は、PART#をお知らせ下さい。データシートをご用意致します。



## END CAPS

Angle	PART #	INPUT PORT PM	OUTPUT PORT
0 ± 0.5°	EC100C4762	PM 980	Free Space
8 ± 0.5°	EC100C4672	PM 10/125 um NA=0.08/0.46	Free Space
6 ± 0.5°	EC100C4979	PM 15/130 um NA=0.08/0.46	Free Space
6 ± 0.5°	EC1005061	PM 20/400 um NA=0.06/0.46	Free Space
8 ± 0.5°	EC1005081	PM 20/400 um NA=0.06/0.46	Free Space
8 ± 0.5°	EC1005083	PM 20/400 um NA=0.06/0.46	Free Space
8 ± 0.5°	EC100C3472	PM 25/250 um NA=0.06/0.46	Free Space
0 ± 1°	EC100C3640	PM 25/250 um NA=0.06/0.46	Free Space
8 ± 0.5°	EC100A081	PM 25/250 um NA=0.06/0.46	Free Space
8 ± 0.5°	EC1007081	PM 25/250 um NA=0.11/0.46	Free Space
6 ± 0.5°	EC1007061	PM 25/250 um NA=0.11/0.46	Free Space
0 ± 1°	EC100C5794	PM 25/250 um NA=0.11/0.46	Free Space
8 ± 0.5°	EC100C4704	PM 25/300 um NA=0.10/0.46	Free Space
8 ± 0.5°	EC100C4739	PM 25/300 um NA=0.10/0.46	Free Space
6 ± 0.5°	EC100C3135	PM 25/400 um NA=0.06/0.46	Free Space
8 ± 0.5°	EC100C4931	PM 25/400 um NA=0.11/0.46	Free Space
0 ± 1°	EC100C5795	PM 25/400 um NA=0.11/0.46	Free Space
6 ± 0.5°	EC100C5639	PM 30/250 um NA=0.06/0.46	Free Space
8 ± 1°	EC100C3487	Gain DCF PM 25/250 um NA=0.06/0.46 Yb	Free Space
0 ± 0.5°	EC100C5347	Gain DCF PM 25/250 um NA=0.06/0.46 Yb	Free Space
6 ± 0.5°	EC100C5324	Gain PM 10/130 um NA=0.20/0.46 Er-Yb DCF	Free Space



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