

# PRODUCT BRIEF

## 100W Fiber Collimator

### Advantages

- 100W Power Handling
- Low Insertion Loss
- High Return Loss
- Long Work Distance
- Flexible and Versatile

### Applications

- Laser Printing
- Laser Marking
- Laser Soldering
- Laser Welding

### Overview

Agiltron's 100W Fiber Collimators are fabricated with Agiltron's proprietary high power handling process and proven advanced micro optics design, it features low insertion loss, large beam size, long work distance and high stability.

Agiltron can provide customized beam size for a wide choice of operating wavelength.

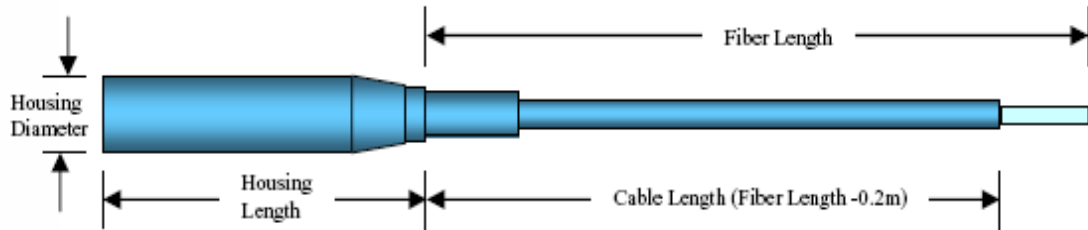


### Performance Specifications

Parameters	Typical Performance	Unit
Operating Wavelength ( $\lambda_c$ )	633,980 or 1064	nm
Maximum Power Handling*	$\leq 100$	W
Maximum Insertion Loss*	$\leq 0.8$ (0.6 Typ)	dB
Return Loss*	$\geq 55$	dB
Work Distance*	$\geq 100$	m
Maximum Pointing Accuracy*	$\leq 1$	deg
Beam Roundness *	$\geq 90$	%
M <sup>2</sup>	$\leq 1.1$	
Beam Waist*	0.5 ~ 15	mm
Operating Temperature	0 ~ +70	°C
Storage Temperature	-40 ~ +85	°C
* Tested under 25oC and $\lambda_c$		



## Product Outline



## Ordering Information

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	Type	Wavelength	Housing	Fiber	Cabling	Fiber Length	Connector
	100=100w Max Optical Power Handling	6=633 9=980 1=1064 0=Special	1=Standard (D14mm x L47mm) 0=Special	A=Corning HI 1060 0=Special	P=3mm PVC S=3mm Stainless Steel K=3mm Kevlar (for <10W app) 0=Special	3=3m 5=5m 0=Special	1=None 0=Special



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