

## 400X400 $\mu$ m Homogenized Fiber Optic Connector



### ● Product Description

Homogenized fiber has unique spot homogenization and scrambling properties. When Gaussian-distributed laser is input, it can obtain a flat-top spot with uniform energy distribution after passing through square/rectangular/octagonal fiber. At the same time, the coupling efficiency is also higher than that of circular fiber. It is an ideal fiber for precision laser processing (welding, cutting, marking), astronomical observation, night vision monitoring, laser biological detection and other application fields. This product link is the related model of homogenized bare optical fiber + connector jumper.

## ● Product features

Uniform energy distribution and high damage threshold 、 Large core energy fiber

## ● Part Number

MP-REV-S400-SMA/FC

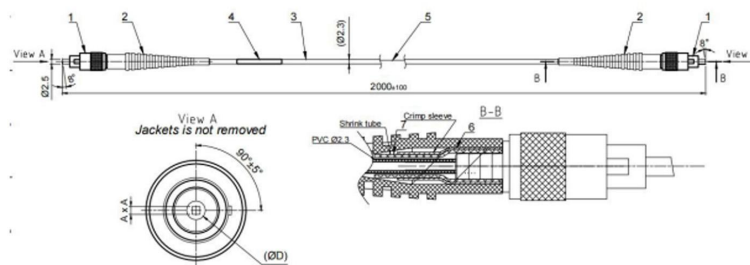
## ● Application area

Optical application experiments 、 Laser transmission

## ● Core parameters

Fiber Type	Connector Type
400x400um	SMA/FC-SMA/FC/SMA905

## ● Dimension Drawing



Part No.	NA	ØD	A	Min. bend radius (mm)	Min. core diameter (µm)	Min. cladding diameter (µm)	Min. length (mm)
MF 50x50 / 6x61 / 200 / 320 / 550 ST	0.22±0.02	0.2	0.261	10	30	500 / 1000	
MF 100x100 / 123x123 / 400 / 540 / 850 ST	0.22±0.02	0.4	0.123	20	60	500 / 1000	

## ● General Parameters

### Model parameters

#### Notes:

1. This component uses 1 Fiber optic cables.
2. All ends will be polished to 0.3 $\mu$ m Specification.
3. Size applies when legs are straight.
4. Glue: Master Bond Supreme HT11 (to +200 ° C) / Analog.
5. Min. Turning radius (short term): 33 mm; min. end. Radius (long term): 99

Millimeters.

#### Fiber Specifications:

OPTRAN®

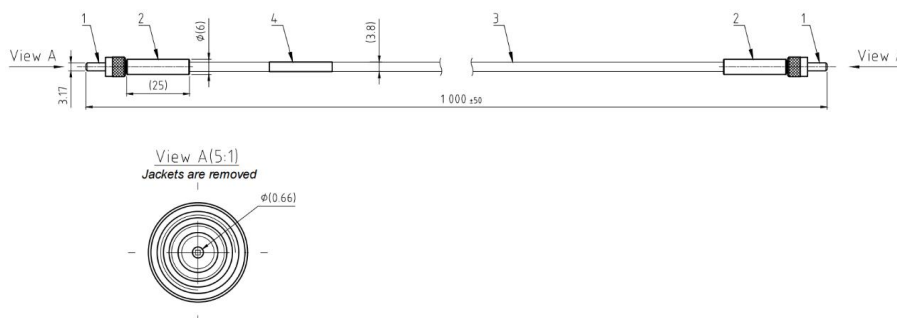
WF 400x400/660/780/1100 N (R=10 ... 20%)

Pure fused silica core: 400x400 $\mu$ m  $\pm$  2% Fluorine doped fused silica cladding:

660 $\mu$ m  $\pm$  2% Sheath 1 diameter: 780 $\mu$ m  $\pm$  3%.

Sheath 2 Diameter: 1100 $\mu$ m  $\pm$  5%.

NA:0.22  $\pm$  0.02



## Technical Parameters

parameter	index
Fiber Type	WU375*375um ,310X310um , 600X600um
length	$L \leq 1m$ tolerance: $\pm 10mm$ $1m < L \leq 3m$ tolerance: $\pm 15mm$ $3m < L \leq 5m$ Tolerance: $\pm 30mm$ $5m < L$ tolerance : $\pm 30mm$
Connector Type	SMA/FC-SMA/FC/SMA905

## Test diagram

