

400X400 μ 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.

● Part Number

08138-REVA

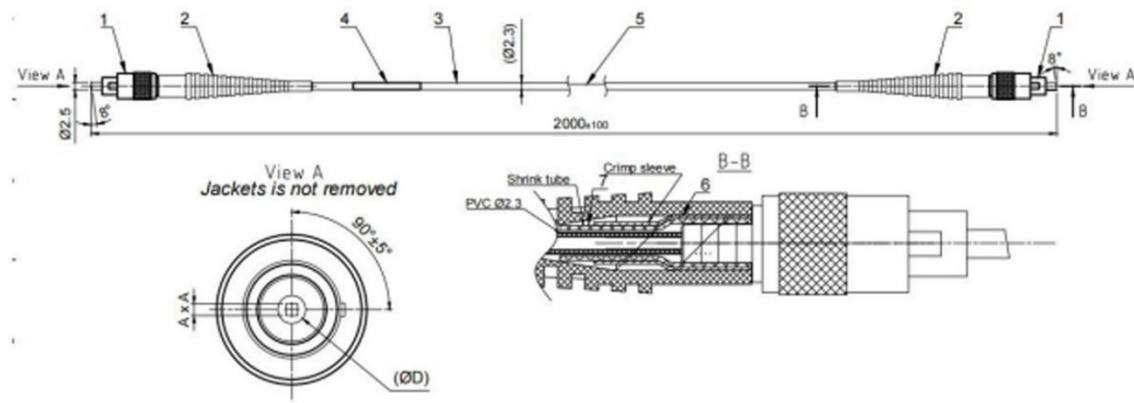
● Product features

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

● Application area

Optical application experiments、 Laser transmission

Dimensional Drawing



| Part No. | NA | ØD mm | A mm | min bend radius short lead in | min bend radius long lead in | Wavelength nm |
|---|-----------|----------|---------|-------------------------------------|------------------------------------|------------------|
| WF 50x50 / 6tx61 / 200 / 320 / 550 ST | 0.22±0.02 | 0.2 | 0.061 | 10 | 30 | 500 ... 1000 |
| WF 100x100 / 123x123 / 400 / 540 / 850 ST | 0.22±0.02 | 0.4 | 0.123 | 20 | 60 | 500 ... 1000 |

Model parameters

Notes:

1. This component uses 1 Fiber optic cables.
2. All ends will be polished to 0.3μm 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®

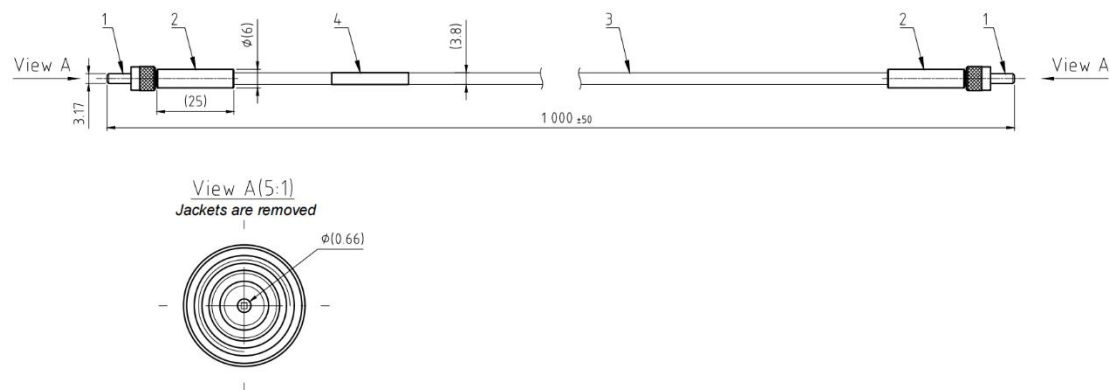
WF 400x400/660/780/1100 N (R=10 ... 20%)

Pure fused silica core: 400x400μm ± 2% Fluorine doped fused silica cladding:

660μm ± 2% Sheath 1 diameter: 780μm ± 3%.

Sheath 2 Diameter: 1100μm ± 5%.

NA:0.22 ± 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

