

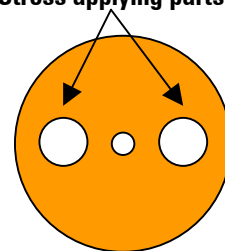
j-BDSR - Boron Doped Silica Rods

j-fiber BDSR – boron doped silica rods are used for the fabrication of Panda style polarization maintaining fiber (PM). Boron doped rods are inserted into a preform as stress applying parts. The special designed preform offers fiber manufacturers a high yield for a highly birefringence waveguide structure that preserves the linear polarization of the input beam along the length of the fiber.

Features

- High Boron content available
- Large core diameters available
- Tight geometrical tolerances
- Custom geometry stress rods for easy insertion in Panda style preforms

PM Fiber (Panda)
Stress applying parts



All fibers and preforms are subject to j-fiber's ongoing process and quality improvement programs ensuring excellent performance and high reliability. We reserve the right to make changes to the above specifications without notice.

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Officially registered facility
according to EWG No. 1221/2009



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Specification

	Spec. Values	Unit
Refractive index profile	Inverse step index	
Core composition	B ₂ O ₃ - SiO ₂	
Core diameter	3 - 13	mm
Tolerance of core diameter within a preform	≤ 10	%
Core non-circularity ¹	≤ 6	%
Boron B ₂ O ₃ concentration	up to 20	wt. %
Refractive index delta ²	- 1.0 x 10 ⁻³ up to - 8.4 x 10 ⁻³	
Tolerance of refractive Index delta within a rod	≤ 15	%
Rod length	200 - 600	mm
Bow	< 0.7	mm/m
Roughness of surface	< 0.2	μm
Appearance: Bubbles (> 100μm)	dustfree and flawless None	

¹Optional cladding: Stress Rods can be supplied with undoped clad layer on demand

²Related to boron concentration measured by DIN EN ISO 21078-1

Ordering Information

To order j-fiber BDSR please call, fax or email us and specify the following parameters:

Preform type:	j-BDSR - Boron doped silica rods
Core diameter	mm
Optional cladding	mm
Refractive index delta or boron content	wt. %
Length	mm
Special requests	