

> Double-cladding Passive Photonic Crystal Fibre

— Product

Double-cladding (pure silica) passive photonic crystal fibre is an air-clad fibre with annular air holes that effectively restrict the pump beam transmission in the pure silica inner cladding. Double-cladding passive photonic crystal fibre has a very high numerical aperture in the cladding (due to the large refractive index difference between silica and air hole). The microstructure design of the inner cladding allows the single-mode fibre core to have a large mode field diameter, ensuring high-power laser transmission and high-quality laser beam.

— Applications

- Single-mode pulse energy transmission
- Spectroscopy
- Coherent reflection topology

— Features

- Single-mode transmission
- Large effective area
- Pure silica material

Yangtze Optical Fibre and Cable Joint Stock Limited Company

Stock Code: 601869.SH 06869.HK ADD: No. 9 Optics Valley Avenue, Wuhan, Hubei, China (P.C.: 430073)

Tel: 400-006-6869 Email: 400@yofc.com en.yofc.com

©202208 YOFC All Rights Reserved

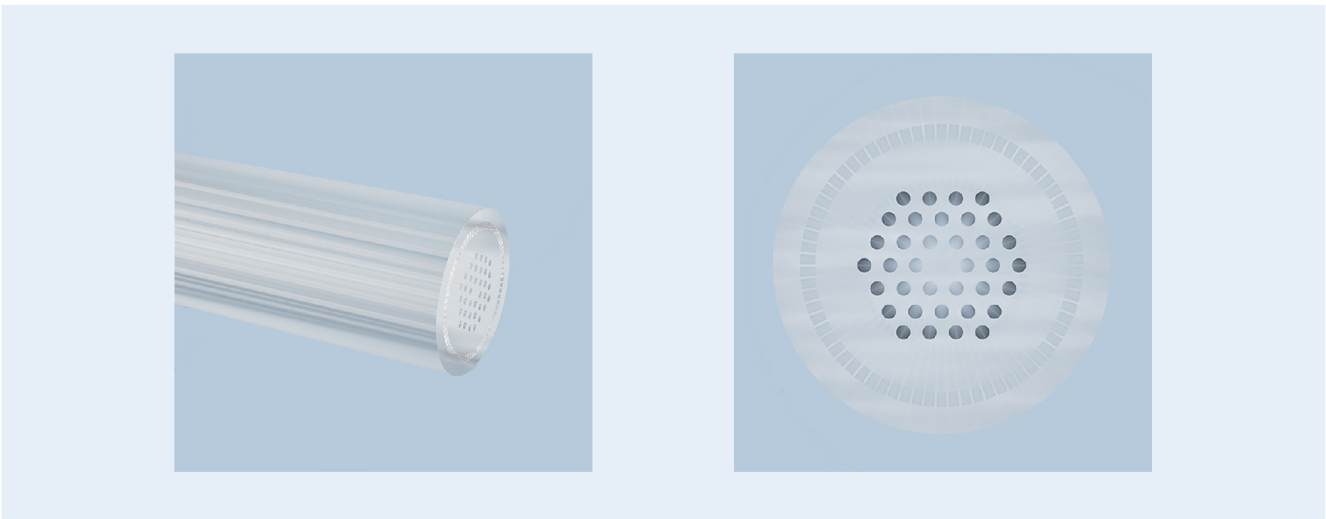
— Specifications

Optical Properties	
Cut-off Wavelength(nm)	< 700
Attenuation* @ 800 nm(dB/km)	< 10
Effective Area(μm²)	< 380

*Multi-mode pump fibre core

Physical Properties	
Material	Pure Silica
Core Diameter(μm)	22 ± 1
Inner Cladding Diameter(μm)	130 ± 2
Outer Cladding Diameter(μm)	250 ± 2
Coating Diameter(μm)	380 ± 10
Coating Material	Acrylic Resin

— Cross Section



— Customization

Double-cladding passive photonic crystal fibre can be customized in terms of core diameter, inner cladding diameter, and inner cladding's numerical aperture.

Yangtze Optical Fibre and Cable Joint Stock Limited Company

Stock Code: 601869.SH 06869.HK ADD: No. 9 Optics Valley Avenue, Wuhan, Hubei, China (P.C.: 430073)

Tel: 400-006-6869 Email: 400@yofc.com en.yofc.com

©202208 YOFC All Rights Reserved