



— Product

Hollow-core Anti-Resonant Fibre (HC-ARF) has a simple structure, hollow-core light guide, and wide transmission spectrum, and is mainly used in light-filler interaction, nonlinear optics, gas detection, gas laser generation, and optofluidics. Hollow-core light guide features ultra-low Rayleigh scattering, low nonlinear coefficient, and tunable dispersion, with higher laser damage threshold, so it is potentially useful for high-power laser transmission, UV/mid-IR light transmission, pulse compression, and optical soliton transmission. The ultra-low loss, low dispersion, and low nonlinearity of hollow core and its propagation velocity that is close to light velocity can enable the development of hollow-core fibre transmission and communication devices, laying the foundation for the construction and development of next-generation ultra-large-capacity, low-latency, and high-speed optical communication systems. As an internationally leading supplier of communication fibre products, YOFC is also committed to the research and development of HC-PCF products. Based on its independently synthesized raw materials, capillary tube manufacturing process with precise size control, and leading hollow-core fibre drawing process, YOFC has developed a series of hollow-core fibre products suitable for different fields.

— Applications

- Nonlinear optics
- Gas laser
- Gas sensing

— Features

- Nodeless negative curvature structure
- Large effective area
- Gas/liquid fillable

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)

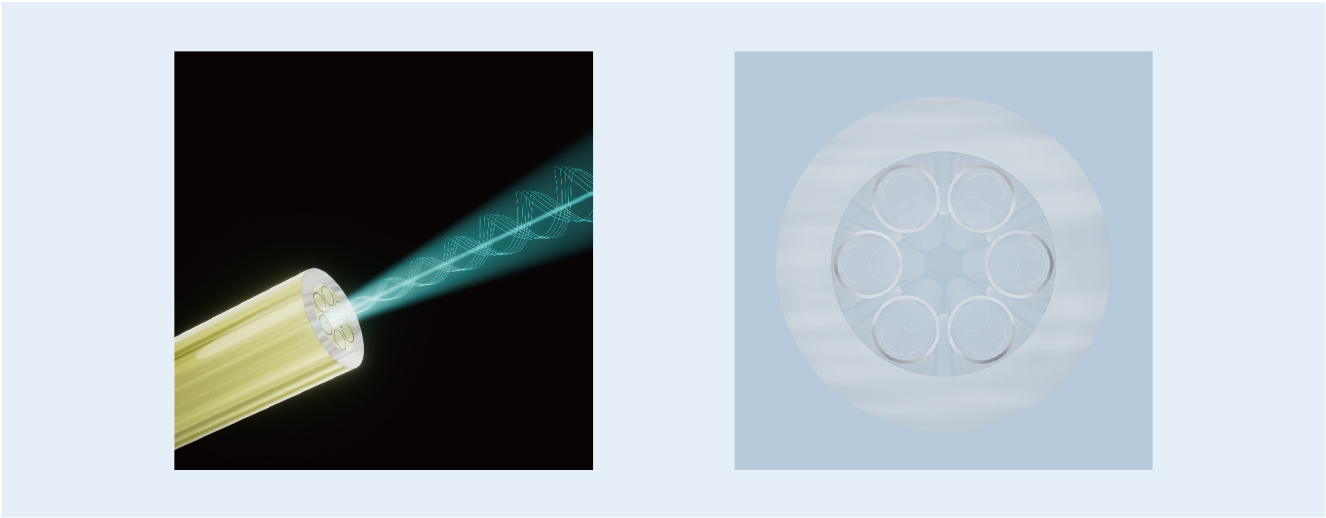
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— Specifications

Physical Properties	
Core Diameter(μm)	78 ± 2
Cladding Diameter(μm)	250 ± 5
Coating Diameter(μm)	380 ± 10
Minimum Loss(dB/km)	< 100
Coating Material	Acrylic Resin

— Cross Section



— Customization

Hollow-core anti-resonant fibre can be customized in terms of core diameter and inner cladding diameter.

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