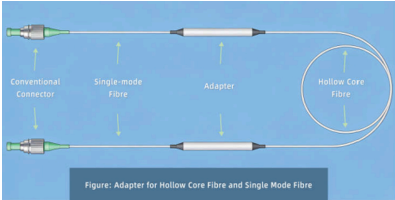


Hollow-core Fiber Converter (HCF)

Specification Datasheet · TopRays Optical Fiber

The hollow-core fiber (HCF) converter is a key component for efficient coupling between hollow-core fibers and standard solid-core fibers. Its precision optical design provides low insertion loss and high return loss, ensuring stable and efficient optical signal transmission between the two fiber media. It allows hollow-core fibers to connect directly to existing fiber-optic communication systems, significantly lowering deployment and upgrade barriers, and offers a convenient and reliable way to realize the ultra-low latency advantage of hollow-core fibers in mission-critical scenarios such as finance and AI high-performance computing.



Specifications

We provide hollow-core fiber splicing services; the splice loss between two hollow-core fibers can be as low as 0.05 dB.

Optical Performance	Range
Insertion Loss	≤ 0.5dB
Return Loss	≥ 55dB
Geometric Characteristics	Range
Hollow-core Fiber Length	> 3m
Single-mode Pigtail Length	1~1.5m
Connector Type	Customizable