Function of Hollow-core Fiber Couplers

We review the topic, focusing first on a discussion of the key parameters, limits of coupling loss, and measurement techniques. We then follow by reviewing the literature, including mode-field ...

We first analyze this novel configuration via simulations and show that it is possible to achieve a coupling loss that is comparable to a conventional flat-cleaved splice.

We present a bi-conical optical directional coupler composed of solid and hollow core fibers. Through an evanescent wave coupling mechanism, the detection of liquid refractive index and its temperature ...

By leveraging independently synthesized raw materials, a capillary preparation process with precise size control, and a cutting-edge drawing process for hollow core fibres, YOFC has developed a range of ...

The world of optical communication is undergoing a transformation with the introduction of Hollow Core Fiber (HCF) technology. This revolutionary technology offers an alternative to ...

This paper reports on the fabrication and performance of a fiber bundle with seven hollow cores arranged in a hexagonal pattern. The bundle shows individual core transmission with less than ...

One of the recently advancing concepts is that of dual hollow-core antiresonant fibers, which have the potential to be used as optical fiber couplers. In the following paper, a design of a ...

We design, fabricate, and demonstrate the first hollow-core air-gap anti-resonant fiber coupler in a dual hollow-core anti-resonant fiber (DHAF) structure. The coupling takes place...

This paper describes a newly developed butt joint type hollow-core fiber connector with protected fiber ends. It can typically realize nearly 0.5-dB insertion and 45-dB return loss without ...

This work represents a new benchmark in hollow core fiber interconnection, showing simultaneously low loss, low coupling into higher-order modes, and low level of back-reflection.

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