OPEAK®

光子晶体光纤跳线
Photonic Crystal Fiber Patch Cord

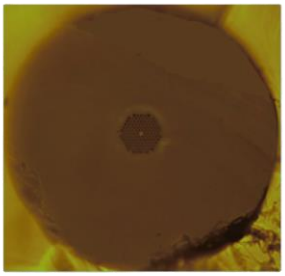
PCF-PC

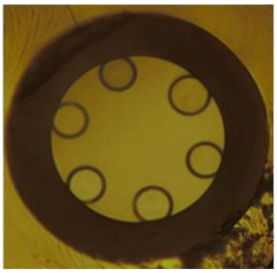
产品特点 / Features

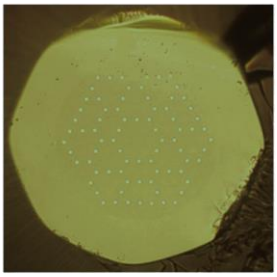
- ✧ 独家端帽设计，大幅提升激光损伤阈值与连接稳定性。
- ✧ Unique end-cap for high power & reliability and significantly increases laser damage threshold and connection stability.
- ✧ 具备无休止单模特性，支持从紫外到红外的宽波长稳定传输。
- ✧ Endless single-mode, broadband transmission, endless single-mode operation, enabling stable transmission across a wide spectrum from UV to IR.
- ✧ 可根据需求提供高非线性、大模场、保偏等多种特种光纤方案。
- ✧ Flexible properties, customized solutions including high nonlinearity, large mode area, and polarization-maintaining fibers.
- ✧ 标准接口，出厂精密调试，确保极低的插入损耗与卓越性能。
- ✧ Standard interfaces with precise factory tuning ensure low insertion loss and outstanding performance.

应用领域 / Applications

- ✧ 高功率激光传输 / High-Power Laser Delivery
- ✧ 超连续谱光源系统 / Supercontinuum Source Systems
- ✧ 光纤传感与陀螺 / Fiber Sensing & Gyroscopes
- ✧ 科研与特殊应用 / Scientific Research & Special Applications







本产品基于先进的光子晶体光纤（PCF）技术，并结合专有的端面塌缩与端帽成型工艺，是性能卓越的光纤跳线解决方案。通过精密加工在光纤端部形成一体化端帽结构，该设计显著提升了跳线的功率耐受性、连接稳定性及长期可靠性。

It is a high-performance fiber optic patch cable solution based on advanced Photonic Crystal Fiber (PCF) technology and proprietary end-face collapse and end-cap formation processes. The integrated end-cap structure, created through precision processing at the fiber end, significantly enhances the patch cable's power handling capability, connection stability, and long-term reliability.

产品继承了光子晶体光纤无截止单模传输、可定制的非线性和色散特性等固有优势，同时凭借独特的端帽设计，有效解决了 PCF 在光纤耦合与连接中的关键挑战，成为高功率、宽波段及极端应用环境下传统光纤跳线的理想升级方案。

The product inherits the inherent advantages of PCF, including endless single-mode transmission, customizable nonlinearity, and dispersion properties. Furthermore, the unique end-cap design effectively addresses the key challenges of coupling and connecting PCF, making it an ideal upgrade from traditional fiber patch cables for high-power, broad-wavelength, and extreme application scenarios.