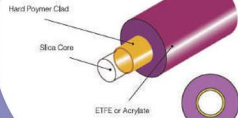


# Hard Polymer Cladding Fiber(HPCF)



## Product Description

Large core fiber with low OH provided by OptoNest is suited for 850nm apparatus and systems. The hard polymer cladding provides higher tensile strength and greater resistance to moisture than the conventional one. These features together create a fiber widely used in fields of telecommunication and industry, and near-IR spectroscopy. Large core with 200 $\mu\text{m}$ ~600 $\mu\text{m}$  diameter provides an excellent coupling efficiency for data links and connectors.

옵토네스트가 제공하는 low OH 대구경 광섬유는 850nm의 기기 및 시스템에 적합합니다. HPCF는 일반 광섬유에 비해 높은 장력 강도와 수분 저항력을 지니므로 통신, 산업, 근적외선 분광학 등 다양한 분야에서 널리 이용되고 있습니다. 200 $\mu\text{m}$ ~600 $\mu\text{m}$ 의 대구경은 데이터 링크와 커넥터간의 높은 결합성을 제공합니다.

HPCF의硬塑料包层能够提供更高的抗拉强度并且能够比常规玻璃包层更好地阻挡潮湿的影响,使得这种光纤能够广泛地应用在通信,工业领域及近红外光谱环境中. 200 $\mu\text{m}$ ~600 $\mu\text{m}$ 光纤芯径放大器能够在数据连接或其他连接器中提供耦合效率.而且.

## Features

- Higher coupling efficiency provided than LED and laser source
- Tolerant of wide fluctuations in temperature and humidity
- More effective and cheaper connection mode than single mode and multimode fiber
- Excellent fatigue resistance performance
- Excellent radiation resistance performance
- Compatible with a variety of light sources

## Applications

- High energy laser transmission
- Short-to-medium distance telecommunication
- Electric signal transmission
- Medical sensor
- Factory automation control
- Laser therapy and operation
- Near-IR spectroscopy application
- Optical pyrometry
- Nuclear radiation monitoring

## Specifications

Parameter	Conditions
Numerical aperture (NA)	0,37 $\pm$ 0,02
Attenuation (850nm)	$\leq$ 8,0dB/km
OH content	Low OH
Refractive index profile	Step Index
Core diameter	400,0 $\pm$ 8,0 $\mu\text{m}$
Cladding diameter	430 +5/-10 $\mu\text{m}$
Coating diameter	730,0 $\pm$ 30,0 $\mu\text{m}$
Core concentricity error	$\leq$ 8,0 $\mu\text{m}$

\* Customized products are available upon customer request.