Fiber Patch Cables

#### Bare Fiber

Fiber Optomechanics Fiber Components Test and Measurement

#### **SECTIONS**

SM Fiber

PM Fiber

#### Doped Fiber

#### PCF

MM Fiber

Plastic Optical Fiber

For current pricing,

### Endlessly Single Mode Photonic Crystal Fiber

A conventional single mode fiber is actually multimode for wavelengths shorter than the second-mode cutoff wavelength, limiting the useful operating wavelength range in many applications. In contrast, NKT Photonics' endlessly single mode Photonic Crystal Fibers (PCFs) are truly single mode at all wavelengths for which fused silica is transparent, regardless of the core size. In practice, the useful operating wavelength range is limited only by bend loss. Although the cladding possesses six-fold symmetry, the mode profile is very similar to the quasi-Gaussian fundamental mode of a conventional axially symmetric step-index fiber resulting in a form overlap that is >90%. Unlike conventional fibers, these fibers are fabricated from a single material – undoped high-purity fused silica glass.



#### Features

- Single Mode at All Wavelengths
- Operating Wavelength Range: 600 2000 nm
- Near-Gaussian Mode Profile
- Single Material
- Attenuation <0.8 dB/km for ESM-12B @ 1550 nm
- Low Bend Loss
- Standard Core Sizes: 12 µm (Other Sizes Available upon Request)
- Can be Provided with Connectors or Hermetically Sealed Ends

#### Applications

- Delivery of High-Power Broadband Radiation in a Single Spatial Mode
- Short Wavelength Applications (Visible and UV)
- Sensors and Interferometers



#### SEM of ESM-12B





ITEM #	LENGTH	\$		£		€		RMB	
ESM-12B	1 to 9 m	\$	112.00	£	80.64	€	97,44	¥	892.64
	10 to 49 m	\$	89.60	£	64.52	€	77,96	¥	714.12

ESM-12B

10 ± 1 μm @ 1550 nm <4 dB/km @ 1060 nm <15 dB/km @ 1384 nm

<1 dB/km @ 1550 nm

0.1 ± 0.05 @ 1550 nm

12 ± 1 µm

125 ± 3 µm

 $240 \pm 15 \ \mu m$ 

Pure Silica

Acrylate



## Have you seen our...

ITEM #

Attenuation

Core Diameter

Cladding Diameter

Coating Diameter

Cladding Material

Coating Material

MFD

NA



# Light Trap Connectors

- Reduce Back Reflection of Unused Feed Through Ports
- Back Reflection Better than -50 dB

◆ FC/PC, FC/APC, or SMA Connector

◆ 1260 - 1620 nm Wavelength Range

Thorlabs' Terminating Connectors are designed to be used with feed through ports that do not have an output fiber connected to them. Light coupled into them is diffused rather than reflected back into the source, reducing the back reflection by roughly 20 dB.

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