

# Ultra-High NA Silica Fibers

ITEM # <sup>a</sup>	OPERATING WAVELENGTH	MODE FIELD DIAMETER <sup>b</sup>	CUTOFF WAVELENGTH	CORE COMPOSITION	ATTENUATION (TYPICAL)	NA	CLADDING DIAMETER	COATING DIAMETER	STRIPPING TOOL
UHNA3	960 - 1600 nm	2.6 μm @ 1100 nm 3.3 μm @ 1310 nm 4.1 μm @ 1550 nm	900 ± 50 nm	SiO <sub>2</sub> /GeO <sub>2</sub>	<20 dB/km <sup>c</sup>	0.35	125 ± 1.5 μm	250 ± 20 μm	T06S13
UHNA1	1100 - 1600 nm	3.3 μm @ 1100 nm 4.0 μm @ 1310 nm 4.8 μm @ 1550 nm	1000 ± 50 nm	SiO <sub>2</sub> /GeO <sub>2</sub>	<20 dB/km <sup>c</sup>	0.28	125 ± 1.5 μm	250 ± 20 μm	T06S13
UHNA4	1100 - 1600 nm	2.6 μm @ 1100 nm 3.3 μm @ 1310 nm 4.0 μm @ 1550 nm	1050 ± 50 nm	SiO <sub>2</sub> /GeO <sub>2</sub>	<20 dB/km <sup>c</sup>	0.35	125 ± 1.5 μm	250 ± 20 μm	T06S13

<sup>a</sup> The core can change up to 10 μm during the splicing process. It is increased with repeated arcing.      <sup>b</sup> ± 0.3 μm      <sup>c</sup> @ 1550 nm

Fluoride optical fibers for amplifiers and lasers at 1300 nm and 1500 nm are important components for optical fiber communications systems. Efficient operation of fluoride fibers requires a very high numerical aperture (typically >0.3), which unfortunately leads to increased splice losses and low return loss when connected to standard silica fibers. This splice loss decreases the overall gain and seriously degrades the noise figure. By splicing UHNA series fibers between the fluoride and standard silica fibers, these losses can be dramatically reduced.



ITEM #	PRICE/m*	\$	£	€	RMB
UHNA3	1 to 9 m	\$ 21.40	£ 15.41	€ 18,62	¥ 170.56
	10 to 49 m	\$ 18.19	£ 13.10	€ 15,83	¥ 144.98
	50 to 249 m	\$ 14.98	£ 10.79	€ 13,04	¥ 119.40
UHNA1	1 to 9 m	\$ 21.40	£ 15.41	€ 18,62	¥ 170.56
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\*Call for Quantities Over 250 m

## Have you seen our...

# Fiber Connectorization Kits



Thorlabs' connectorization kits include a number of tools necessary to connectorize and polish a fiber. The following components are included in each kit:

- ◆ Step-by-Step Instructions (FN96A)
- ◆ Crimp Tool (CT042)
- ◆ Glass Polishing Plate (CTG913)
- ◆ Polishing Film (LFG03P, LFG1P, LFG3P, and LFG5P)
- ◆ Polishing Disc (Varies by Kit)
- ◆ Fiber Scope (FS200)
- ◆ Diamond Scribe (S90W)
- ◆ Furcation Tubing
- ◆ Epoxy Syringes (MS403-10, Qty. 2)
- ◆ Epoxy (F112)
- ◆ Fiber Stripper (T06S13)
- ◆ Kim Wipes (KW32)
- ◆ Wash Bottle

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