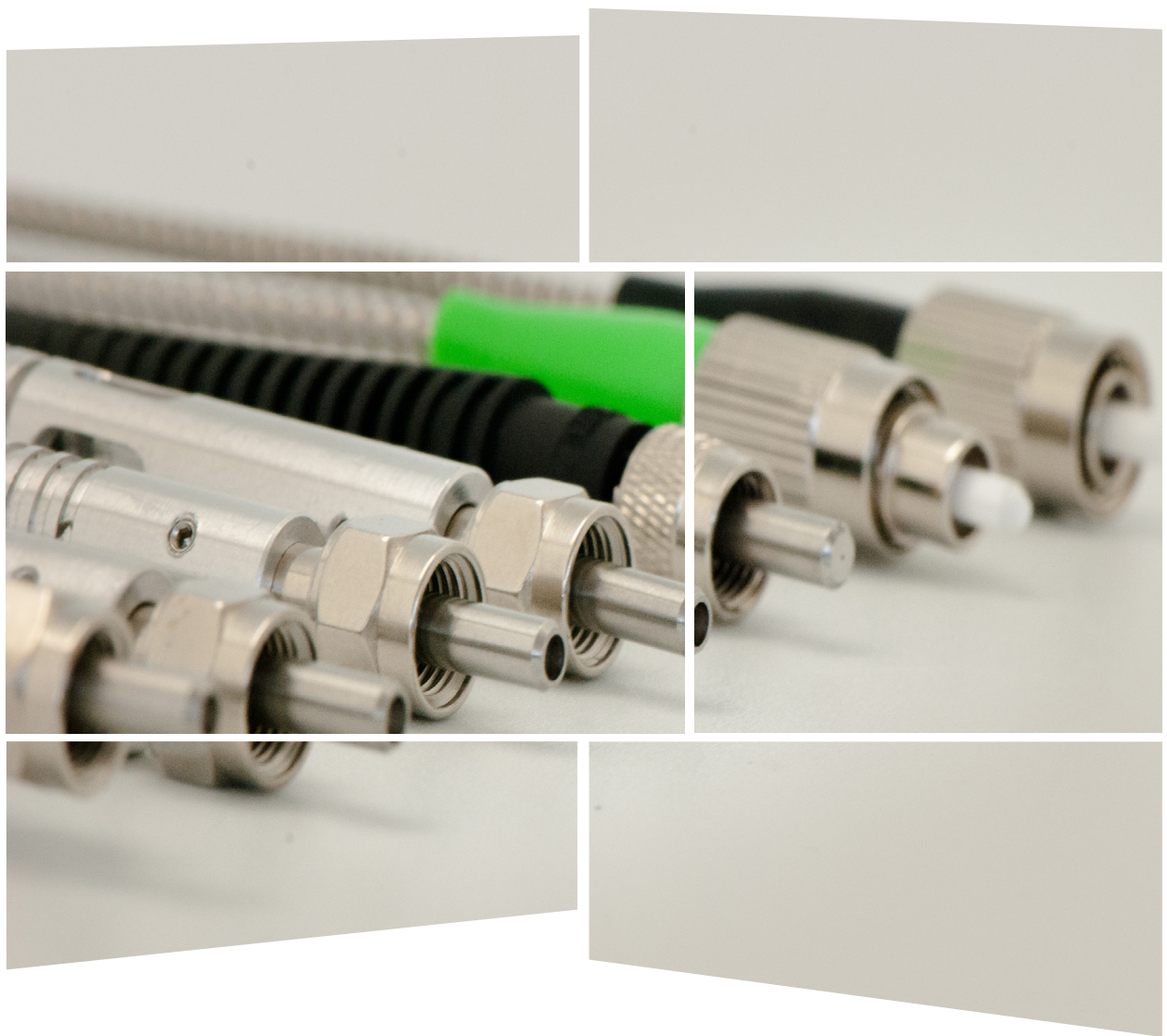


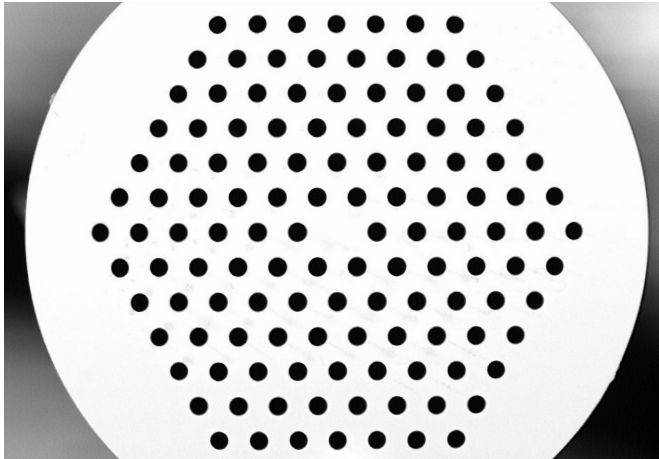
Single-mode fiber delivery designed for Atom Physics








ALPhA NOV

Optics & Lasers Technology Center

Single-mode fiber delivery designed for Atom Physics



Better fiber for easier experimentation and enhanced atomic interaction.

- 
 Highest power delivery
- 
 Truly single-mode
- 
 Durability
- 
 Limited back-reflections
- 
 Customer care

Our fiber delivery solution designed for atom physics relies on the state-of-the-art large mode area photonic crystal fiber, enabling truly single-mode operation over a wide wavelength range. Thanks to the large mode field diameter, which is wavelength independent, power limitations are pushed back and the unwanted Brillouin effect is limited. The fiber can be polarization maintaining.

Thanks to our end-capping expertise on photonic crystal fiber, we manufacture reliable cables that are completely immune to contamination, and with perfect mode quality. Besides, our unique mode-stripping technology enables us to produce high-power connectors. Every cable can be delivered with a protective jacket over the needed length, keeping the user serene.

Always ready to tailor the cable to the application, ALPhANOV can propose options such as anti-reflective coatings, collimators, and specific treatments depending on the use.

Typical specifications:

	Low power version	High Power version	Ultra violet version
Wavelength range	400 - 2000 nm	500 - 2000 nm	300 - 2000 nm
Length	On demand (> 0.5 m)	On demand (> 1 m)	On demand (> 0.5 m)
Power handling	Up to 10 W	Up to 50 W	Up to 200 mW
Connectors **	FC/PC or APC or SMA-905	SMA-905 with mode stripper	FC/PC or APC
End-cap	< 100 μm	< 100 μm	< 100 μm
Angle	On demand	On demand (5° typ.)	0° or 8°
Tubing	PCV or steel	PCV or steel	PCV (advised)
Options	AR coating Collimators	AR coating Collimators	AR coating Collimators H ² loading

** See P9-10 of our catalog