

AEROGUIDE-POWER

Broadband high-power PM fiber delivery



HIGH-POWER SINGLE-MODE DELIVERY

Ideal for low-loss PM delivery

Based on our LMA-PM-15 fiber, the aeroGUIDE Power is a single-mode delivery cable for high-power applications. With a mode area larger than $120 \mu\text{m}^2$, it offers the highest non-linear threshold of any PM single-mode delivery cable on the market.

The aeroGUIDE Power can transmit light anywhere in the spectral range from 500-2000 nm with high efficiency.

Applications

- High-power delivery in the spectral range from 500-2000 nm
- Ideal for narrow linewidth delivery
- Atomic trapping
- Quantum optics

SPECIFICATIONS

Sturdy and clever design

To remove uncoupled light, the aeroGUIDE-POWER is equipped with SMA-905 connectors with built-in mode strippers.

The light exits through “windows” in the connector, reducing the thermal load to ensure better performance at high powers.

The fiber is protected by an armored squarelock steel cable that can withstand the daily use and even inter-lab routing through walls.

Features

- Truly single-mode fiber
- 500-2000 nm guidance in one fiber
- High-power SMA connectors
- Polarization maintaining properties
- Available in three standard lengths

SPECIFICATIONS

Mode field diameter [μm]	
@ 532 nm	12.2 \pm 1.5
@ 1064 nm	12.6 \pm 1.5
Fiber length (+0.2/-0.0) [m]	
	2.0 / 5.0 / 10.0
Termination	
	SMA-905
Facet angle [$^\circ$]	
	5 \pm 1
Tubing	
	Squarelock steel
Min. bending radius @ 1 μm [cm]	
	20
Min. bending radius @ 0.5 μm [cm]	
	25

All NKT Photonics fiber products are produced under our quality management system certified in accordance with the ISO 9001:2015 standard.

