

# 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.

### **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 four standard lengths

# **aeroGUIDE POWER**

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## **Applications**

**High-power delivery in the spectral range from 500-2000 nm**

**Ideal for narrow linewidth delivery**

**Atomic trapping**

**Quantum optics**

# Specifications

<b>Mode field diameter [<math>\mu\text{m}</math>]</b>	
<b>@ 532 nm</b>	12.2 $\pm$ 1.5
<b>@ 1064 nm</b>	12.6 $\pm$ 1.5
<b>Fiber length (+0.2/-0.0) [m]</b>	2.0 / 3.0 / 5.0 / 10.0
<b>Termination</b>	SMA-905
<b>Facet angle [ <math>^\circ</math> ]</b>	5 $\pm$ 1
<b>Tubing</b>	Squarelock steel
<b>Min. bending radius @ 1 <math>\mu\text{m}</math> [cm]</b>	20
<b>Min. bending radius @ 0.5 <math>\mu\text{m}</math> [cm]</b>	25

## aeroGUIDE POWER

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



# SOLUTIONS FOR INNOVATORS