



A Furukawa Company

Your Optical Fiber Solutions Partner®

OFS | [www.ofsoptics.com](http://www.ofsoptics.com)

## Item # C10026, FlightGuide® 1310/1550 nm Simplex 1.8 mm Single-mode Cable

The FlightGuide family of aerospace cables provides high temperature and strength capabilities for a variety of single-mode and graded-index optical fibers.

Compatible with connectors and/or termini designed for tight jacket construction cables (e.g. ST, Tight Jacket LC, Tight Jacket SC, MIL-29504 pin and socket).



[Cable Optical Properties](#) | [Buffered Fiber Properties](#) | [Cable Design](#) | [Installation and Usage Specifications](#) | [How to order a HNLF-ST Module](#): | [Typical Applications](#)

### Cable Optical Properties

#### Attenuation

@ 1310 nm,  $\leq 1.5$  dB/km  
 @ 1550 nm,  $\leq 1.4$  dB/km

### Buffered Fiber Properties

#### Type

Single-mode

#### Mode Field Diameter

@ 1310 nm,  $5.1 \pm 1.0$   $\mu\text{m}$   
 @ 1550 nm,  $5.8 \pm 1.0$   $\mu\text{m}$

<b>Cladding Diameter</b>	125 ± 1 µm
<b>Numerical Aperture</b>	0.21
<b>Coating Type 1</b>	Carbon
<b>Coating Type 2</b>	Silicone
<b>Coating Type 2 Diameter</b>	450 ± 25 µm
<b>Construction</b>	Single-mode 1310/1550 nm
<b>Buffer Material</b>	ETFE
<b>Buffer Diameter</b>	900 ± 50 µm

## Cable Design

<b>Outer Cable Diameter</b>	1.8 ± 0.1 mm
<b>Cable Weight</b>	4.0 kg/km
<b>Outer Jacket Material</b>	ETFE
<b>Standard Jacket Color</b>	Yellow

## Installation and Usage Specifications

<b>Installation Load Maximum</b>	90 lb 400 N
<b>Operating Load Maximum</b>	30 lb 133 N
<b>Minimum Bend Installation</b>	25 mm
<b>Minimum Bend Operating</b>	8 mm
<b>Operating Temperature</b>	-55 to +150 °C
<b>Storage Temperature</b>	-55 to +85 °C

## How to order a HNLF-ST Module:

### Order From Location

#### AVON LOCATION

1.888.438.9936 toll-free in the United States and Canada

1.860.678.0371 from outside the U.S.A.

55 Darling Drive

Avon, CT 06001, USA

### Note

The operating temperature ranges are general guidelines. Consult with our Technical Sales department to determine the optimal coating and jacketing material for your specific application. 1.860.678.6636. OFS reserves the right to make changes to the prices and product(s) described in this document at any time without notice. This document is for informational purposes only and is not intended to modify or supplement any OFS warranties or specifications relating to any of its products or services.

## Typical Applications

Aircraft Sensors

Communication Systems

Corrosive Chemical Environments

Data Transmission

Harsh Industrial Environments