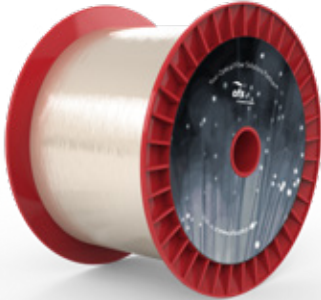


## 1540 Highly-Non-Linear Optical Fiber

P/N: HNLF-SPINE ZDW



### Overview

OFS Highly Non-Linear Fiber (HNLF) with Stable Phase-matching for Improved Nonlinear Efficiency (HNLF-SPINE) combines a high non-linear coefficient with a zero dispersion wavelength that is very stable along the fiber length. The fiber design includes a high delta core, doped with GeO<sub>2</sub>, surrounded by a deeply depressed ring doped with fluorine. The HNLF is available with zero dispersion wave from 1526 to 1543.

### Typical Applications

Parametric Process



A Furukawa Company

# 1540 Highly-Non-Linear Optical Fiber

P/N: HNFL-SPINE ZDW

Product Specifications	
Product Description	<b>1540 Highly-Non-Linear Optical Fiber</b>
Optical Characteristics	
Type	Non-Standard
Fiber Length	50 to 2000 m
Fiber Length Tolerance	± 3
Cutoff Wavelength	< 1525 nm
Effective Area (Typical)	14.4 μm <sup>2</sup>
Zero Dispersion Wavelength	1526 to 1543 nm
Dispersion	0.4 to 1.8 ps/(nm·km)
Dispersion Slope (Typical)	0.071 ps/(nm <sup>2</sup> ·km)
PMD	≤ 0.20 ps/√km
Attenuation	≤ 0.90 dB/km
Typical Attenuation	0.83
Splice Loss to SSMF Pigtail	≤ 0.20 dB
Splice Loss to SSMF Pigtail (Typical)	0.10 dB
SBS Threshold x Effective Length	30 W·m
Non-Linear Coefficient (Typical)	9.3 W <sup>-1</sup> ·km <sup>-1</sup>

Ordering Information for HNFL-SPINE ZDW Module	
Short (1-2 meter) Standard Single-Mode (SSMF) pigtails with connectors are spliced to the HNFL. The fiber with pigtails is delivered on a 29 x 175 mm spool covered with a protective layer of silicone glue.	
Ordering Code: HNFL-AL-LLLL-P-M-DD	
<b>Length Code (LLLL)</b>	Length in step of 50 meters (0050, 0100, 0150, .. 2000)
<b>Pigtail Option (P)</b>	Pigtail Type <b>1</b> = SSMF with FC/APC Connectors <b>2</b> = SSMF with FC/PC Connectors
<b>Mechanical Option (M)</b>	Mechanical Package <b>1</b> = 29x175 mm spool with silicone glue <b>2</b> = 29x175 mm spool without silicone glue
<b>Dispersion Code (DD)</b>	Dispersion at 1550 nm (ps/nm*km) <b>z0</b> = 0.0 ± 1.0 <b>p1</b> = 1.0 ± 1.0

Ordering Information for HNFL-SPINE ZDW Fiber	
The HNFL fiber can also be delivered without pigtails on a 105 x 265 mm spool without any silicone. However, please note that splice loss of about 1 dB from HNFL to SSMF must be expected when using standard fusion splicers.	
Item Number	Dispersion at 1550 nm (ps/nm*km)
<b>80416z0</b>	0.0 ± 1.0
<b>80416p1</b>	1.0 ± 1.0

For additional information please contact your sales representative.

You can also visit our website at [www.ofsoptics.com](http://www.ofsoptics.com) or call 1-888-fiberhelp (1-888-342-3743) USA or 1-770-798-5555 outside the USA.



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OFS Marketing Communications  
Date: 11/19

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