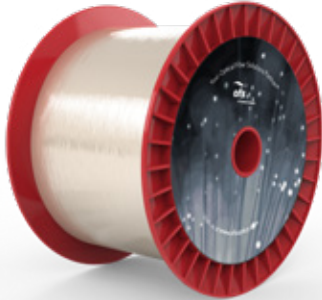


1566 Highly-Non-Linear Optical Fiber

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 GeO₂, surrounded by a deeply depressed ring doped with fluorine. The HNLF has zero dispersion wave at 1566 nm.

Typical Applications

Parametric Process




A Furukawa Company

1566 Highly-Non-Linear Optical Fiber

P/N: HNFL-SPINE ZDW

Product Specifications	
Product Description	1566 Highly-Non-Linear Optical Fiber
Optical Characteristics	
Type	Non-Standard
Fiber Length	50 to 2000 m
Fiber Length Tolerance	± 3
Cutoff Wavelength	< 1500 nm
Effective Area (Typical)	15.8 μm ²
Zero Dispersion Wavelength	1566 nm
Dispersion	-1.15 ps/(nm·km)
Dispersion Slope (Typical)	0.083 ps/(nm ² ·km)
PMD	≤ 0.20 ps/√km
Attenuation	≤ 0.90 dB/km
Typical Attenuation	0.75
Splice Loss to SSMF Pigtail	≤ 0.20 dB
Splice Loss to SSMF Pigtail (Typical)	0.10 dB
SBS Threshold x Effective Length	35 W·m
Non-Linear Coefficient (Typical)	8.8 W ⁻¹ ·km ⁻¹

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-  LLLL-P-M-DD	
Length Code (LLLL)	Length in step of 50 meters (0050, 0100, 0150, .. 2000)
Pigtail Option (P)	Pigtail Type 1 = SSMF with FC/APC Connectors 2 = SSMF with FC/PC Connectors
Mechanical Option (M)	Mechanical Package 1 = 29x175 mm spool with silicone glue 2 = 29x175 mm spool without silicone glue
Dispersion Code (DD)	Dispersion at 1550 nm (ps/nm*km) m1 = -1.0 ± 1.0 z0 = 0.0 ± 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)
80417m1	-1.0 ± 1.0
80417z0	0.0 ± 1.0

For additional information please contact your sales representative.

You can also visit our website at 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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