



365-22 Reduced Buffer HCL Optical Fiber

P/N: BF05147

Product Overview

The Lightera family of High-Power Delivery optical fibers includes the HCL product line. HCL fibers are low-OH, all-silica fibers coated with HCS® fluoroacrylate to improve fiber strength and to reduce static fatigue. ETFE is used as the outer buffer on these step-index, multimode fibers. They have a nominal NA of 0.22 and are available in a variety of core sizes and core/clad ratios.

Typical Applications

- Cascaded Laser Power Delivery
- High-Power Laser Delivery
- Industrial Cabling
- Laser Surgery
- Laser Welding and Cutting
- Near-IR (up to 2100 nm) Laser Power Delivery

Product Specifications	
Product Description	365-22 Reduced Buffer HCL
Physical Characteristics	
Core Diameter	365 ± 10 µm
Cladding Diameter	400 ± 10 µm
Hard Coating Diameter	430 +0/-10 µm
Buffer Diameter	550 ± 30 µm
Clad/Coating Offset	9 µm
Crimp & Cleave Compatible	Yes
Buffer Material	ETFE
Standard Buffer Color	Blue
Coating Material	HCS® Fluoroacrylate
Optical Characteristics	
Type	Multimode Step-Index
Numerical Aperture	0.22 ± 0.02
Attenuation @ 850 nm	≤ 8 dB/km
Water Content	Low OH
Mechanical and Environmental	
Operating Temperature	-65 to +125 °C
Short-Term Bend Radius	≥ 29 mm
Long-Term Bend Radius	≥ 47 mm
Proof Test Level	≥ 100 kpsi (0.689 GPa)
Order by Part Number	BF05147
Product Description Code	365-22 HCL REDUCED BUFFER
OPTIONS	Cabling, Carbon Coating, Clad Diameter, Connectorization, Core Diameter, Low Bioburden Packaging and Manufacturing, Metalization, Numerical Aperture, Buffer Colors, Proof Test
Contact Information	For additional information please contact your sales representative. You can also visit our website at www.lightera.com or call 1-888-FIBERHELP (1-888-342-3743) USA or 1-770-798-5555 outside the USA. For a full list of our certifications, visit our website.
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