



HCS 940 μm All Silica Low OH Step-Index Optical Fiber

P/N: CF01493-54

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	HCS 940 μm All Silica Low OH Step-Index Optical Fiber
Physical Characteristics	
Core Diameter	940 $\pm$ 15 μ m
Cladding Diameter	1000 $\pm$ 15 μ m
Hard Coating Diameter	1035 $\pm$ 15 μ m
Buffer Diameter	1400 $\pm$ 50 μ m
Clad/Coating Offset	$\leq$ 11 μ m
Crimp & Cleave Compatible	Yes
Buffer Material	ETFE
Standard Buffer Color	Natural
Coating Material	HCS® Fluoroacrylate
Optical Characteristics	
Type	Multimode Step-Index
Numerical Aperture	0.22 $\pm$ 0.02
Attenuation @ 850 nm	$\leq$ 10 dB/km
Water Content	Low OH
Mechanical and Environmental	
Operating Temperature	-65 to +125 °C
Short-Term Bend Radius	$\geq$ 73 mm
Long-Term Bend Radius	$\geq$ 118 mm
Proof Test Level	$\geq$ 100 kpsi (0.689 GPa)
Order by Part Number	CF01493-54
Product Description Code	940-22 HCL
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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