



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

P/N: CF01493-54

Product Overview

Low OH concentration optimizes these fibers for use in the near-IR wavelengths. Biocompatibility features make these fibers ideal for laser surgery and other medical applications. The all-silica base construction also creates a high damage threshold and high-performance optical properties. High temperature environments require the use of PYROCOAT® polyimide coating.

Typical Applications

- Aircraft/Industrial Cabling
- Engine Controls
- High-Power Laser Delivery
- Laser Surgery
- Laser Welding and Cutting
- Near-IR Spectroscopy
- Radiation Analysis
- Sensing

Product Specifications	
Product Description	940 All Silica Low OH Step-Index
Physical Characteristics	
Core Diameter	940 ± 15 µm
Cladding Diameter	1000 ± 15 µm
Coating Diameter	1035 ± 15 µm
Buffer Diameter	1400 ± 50 µm
Core/Clad Offset	≤ 11 µm
Crimp & Cleave Compatible	No
Cladding Material	HCS fluoroacrylate
Buffer Material	ETFE
Standard Buffer Color	Natural
Optical Characteristics	
Type	Multimode Step-Index
Numerical Aperture	0.22
Attenuation @ 850 nm	≤ 8 dB/km
Water Content	Low OH
Mechanical and Environmental	
Operating Temperature	-65 to +125 °C
Short-Term Bend Radius	≥ 73 mm
Long-Term Bend Radius	≥ 118 mm
Proof Test Level	≥ 100 kpsi (0.689 GPa)
Order by Part Number	CF01493-54
Product Description Code	HCL-M0940T
OPTIONS	Buffer Color, Buffer Diameter, Buffer Material, Cabling, Clad Diameter, Connectorization, Core Diameter, Metalization, Numerical Aperture, 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.
Trademark Notice and Disclaimer	Lightera reserves the right to make changes to the 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 Lightera warranties or specifications relating to any of its products or services.