



HCS® 550 µm All Silica Step-Index Optical Fiber

P/N: CF01493-43

Product Overview

High OH concentration in these fibers results in efficient power transmission in the wavelength range from high UV through visible light. 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

- Illumination
- Laser Surgery
- Radiation Analysis
- Sensors
- UV Fluorescence
- UV Spectroscopy

Product Specifications	
Product Description	550 All Silica Step-Index
Physical Characteristics	
Core Diameter	550 ± 12 µm
Cladding Diameter	600 ± 10 µm
Coating Diameter	630 ± 10 µm
Buffer Diameter	750 ± 30 µm
Core/Clad Offset	≤ 9 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 @ 820 nm	≤ 10 dB/km
Water Content	High OH
Mechanical and Environmental	
Operating Temperature	-65 to +125 °C
Short-Term Bend Radius	≥ 58 mm
Long-Term Bend Radius	≥ 94 mm
Proof Test Level	≥ 100 kpsi (0.689 GPa)
Order by Part Number	CF01493-43
Product Description Code	HCG-M0550T
OPTIONS	Buffer Color, Buffer Diameter, Buffer Material, Cabling, Clad Diameter, Core Diameter, Connectorization, Numerical Aperture, Metalization, 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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