

Provides performance over wide ranges of temperature and humidity with low attenuation



Specialty Fiber



Issue date: 01/11
Supersedes: 02/10

Product Type: Hard Polymer Clad Silica Fiber

Coating Type: 200 µm (Glass) / 230 µm (Polymer) / 500 µm (ETFE)

The all purposes large core fiber

- High power delivery
- Industry
- Medical
- Short to medium distance communication
- Spectroscopy
- Diagnostics
- Sensing

Draka's Hard Polymer Clad Silica Fiber features a large core diameter for easy handling and high coupling efficiency to LED and laser sources. The special low index polymer cladding provides high temperature stability for fast and easy connectorization. In addition this fiber features a protective fluorinated Polymer layer around the core glass for deployment in a wide wavelength range. High laser damage threshold, high tensile strength and good fatigue resistance make the fiber ideally suited for a wide variety of applications.

The Draka's Hard Polymer Clad Silica Fiber is buffered with ETFE which is very resistant to Ultra Violet, high and low temperature, chemical corrosion...



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Features

Large core
Low index Polymer Cladding
Hard Polymer Cladding
Easy strippable buffer construction

Benefits

Easy light coupling. High laser damage threshold
High Numerical Aperture
Good cleavability
Enables fast and efficient connectorization

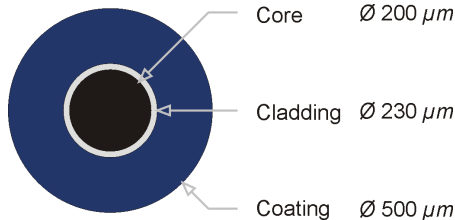


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Optical Specifications

Attenuation	Typical	Specified Value
Attenuation Coefficient at 850 nm	4	≤ 6 dB/km
Numerical Aperture		0.37

Geometrical Specifications¹

Parameters		
Core Diameter		200 ± 4 μm
Core/Cladding Concentricity Error		≤ 5 μm
Cladding Material		Fluorinated Polymer
Cladding Diameter		230 + 0 / -10 μm
Buffer Material		ETFE
Buffer Diameter		500 ± 30 μm
Length		Standard lengths up to 2.2 km


Mechanical Specifications²

Parameters		
Proof Test (100%)	Off line	≥ 150 kpsi ≥ 1.033 GPa

Environmental Specifications

Parameters		
Operating Temperature		≥ - 65°C to ≤ + 125°C

¹ Other dimensions available upon request

² On buffered fiber, other proof tests are available upon request

How can we be of service to you?

Value Innovation is a way of looking at the world. How can we help our customers do more, make more, save more, achieve more?

Take DrakaElite™. Based on our proprietary manufacturing process and our control of all technological building blocks, we offer an extensive portfolio of specialized optical fibers that have been designed, developed, manufactured

and tested for every environment. Whether you want to guide, amplify, transmit, process, control or sense light, Draka has the fiber you need, whatever your environment. And if for some reason we don't have exactly what you need, well, we'll just make it.

That's Value Innovation in action.

Draka Communications

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