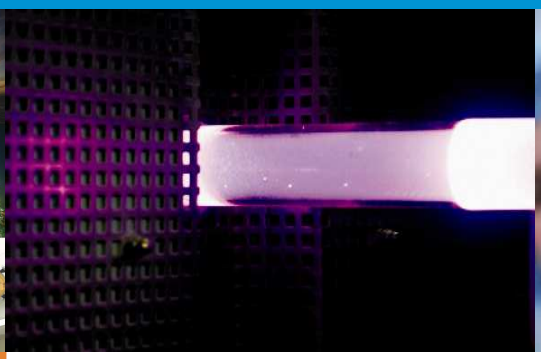
DrakaElite™ Step-Index Multimode Optical Fiber (50/125 µm)

Improved performances for multi-purposes applications



Specialty Fiber

Issue date: 12/09
Supersedes: 09/09

Product Type: 50 / 125 µm
Coating Type: Dual Layer Primary Coating Acrylate (DLPC9)

For use in applications like:

- Medical
- Industrial
- Components
- Laser Diode Pumping
- Remote light

VALUE INNOVATION

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

DrakaElite

Fiber

DrakaElite™ Step-Index Multimode Fibers are part of the growing family for applications from telecom to industrial.
Step-Index Multimode fibers are available, upon request, in different core diameters and with various numerical apertures.

Coating

Draka's Step-Index Multimode Fibers are coated with a dual layer UV curable Acrylate, type DLPC9. The coating is designed for tight-buffer cable applications, demonstrating a high resistance to micro-bending. The coating offers an excellent stable coating strip force over a wide range of environmental conditions and coating stripping leaves no residues on the bare glass fiber. In tight buffer applications the entire coating construction (tight buffer and primary coating) can very easily be stripped off.
For higher temperature other coatings are available (e.g. high temperature Acrylate, up to 150°C)

Features	Benefits
Coated with the Dual Layer UV Acrylate DLPC9	• Optimized performance in tight buffer cable applications • High resistance to micro-bending • Stable performance over a wide range of environmental conditions • Improved easy stripping of tight buffer coatings
Phosphorous free production	Improved performances under harsh environments
Excellent high temperature resistant Acrylate coating manufacturing process	Superior geometry, uniformity and homogeneity

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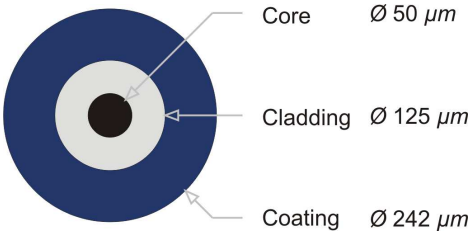

Optical Specifications

Parameters	
Attenuation Coefficient at 850 nm (NA = 0.12 ± 0.02)	≤ 10 dB/km
Numerical Aperture	0.12 ± 0.02
	0.22 ± 0.02

Geometrical Specifications

Parameters	
Core Diameter	50 ± 3 µm
Core Non-Circularity	≤ 6.0 %
Core/Cladding Concentricity Error	≤ 1.5 µm
Cladding Diameter	125.0 ± 1.0 µm
Cladding Non-Circularity	≤ 1.0 %
Coating Material	Acrylate
Coating Diameter	242 ± 10 µm
Coating Concentricity Error	≤ 12 µm
Length	250, 500, 1000, 2000 m

Mechanical Specifications

Parameters		
Proof Test[1]	Off line	≥ 8.8 N
		≥ 1.0 %
		≥ 100 kpsi
		≥ 0.7 GPa

Environmental Specifications

Parameters	
Operating Temperature	- 40°C to + 85°C

[1] *Higher proof test level 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.

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The Draka Communications policy of continuous improvement may cause in changed specifications without prior notice