



Draka

Specialty Fiber

DrakaElite™ Step-Index Component Optical Fiber (1060 nm)

Optimum single-mode performances at low operating wavelengths



Issue date: 08/10
Supersedes: 12/09

Fiber

This DrakaElite™ Step-Index Component Optical Fiber provides optimum single-mode performances at low operating wavelengths. This fiber has a 5 µm core diameter and a 125 µm cladding diameter.

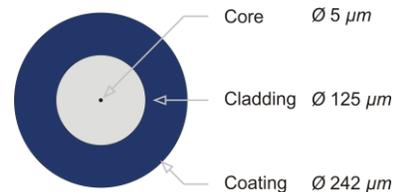
Coating

Draka's Step-Index Component 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.

Process

This Single-Mode fiber is manufactured using the Plasma-activated Chemical Vapor Deposition (PCVD and APVD™) process.

Features	Advantages
Coated with the dual layer UV Acrylate DLPC9	<ul style="list-style-type: none"> Optimized for tight-buffer cable applications High resistance to micro-bending
Draka's proprietary manufacturing process	Superior geometry, uniformity and homogeneity



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Product Type: 5 / 125 / 242 μm

Fiber Coating Type: Dual Layer Primary Coating Acrylate (DLPC9)

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Characteristics	Conditions	Specified Values	Units
Optical Specifications			
Attenuation Coefficient	980 nm	≤ 2.1	dB/km
	1060 nm	≤ 1.5	dB/km
Mode Field Diameter	980 nm	5.9 ± 0.3	μm
	1060 nm	6.2 ± 0.3	μm
Numerical Aperture	Typical	0.14	
Fiber Cut-off		920 ± 50	nm
Geometrical Specifications			
Glass Geometry			
Cladding Diameter		125.0 ± 0.5	μm
Core Non-Circularity		≤ 5	%
Core/Cladding Concentricity Error		≤ 0.3	μm
Cladding Non-Circularity		≤ 0.5	%
Coating Geometry			
Coating Material		Acrylate	
Coating Diameter		242 ± 12	μm
Coating Concentricity Error		≤ 10	μm
Length		250, 500, 1000, 2000, 5000	m
Mechanical Specifications			
Proof Test ¹	Off line	0.7 (100)	GPa (kpsi)
Environmental Specifications			
Operating Temperature		≥ -40 to $\leq +85$	$^{\circ}\text{C}$

¹ Higher proof test level available upon request