

Specialty Fiber

DrakaElite[™] Low OH Step-Index Multimode Optical Fiber

Improved performances for multi-purposes applications



Fiber

DrakaEliteTM 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; high temperature acrylate (up to 150°C), silicone (up to 200°C) and polyimide (up to 300°C).





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Product Type: Low OH SI-MMF

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

	Туре						
Core / Clad diameter	40/125	50/125	50/125	62.5/125	105/125	105/125	
NA	0.22	0.22	0.12	0.22	0.22	0.15	
Water content	Low OH	Low OH	Low OH	Low OH	Low OH	Low OH	
Characteristics	Specified Values						Units
Optical Specifications							
Numerical Aperture	0.22 ± 0.02	0.22 ± 0.02	0.12 ± 0.02	0.22 ± 0.02	0.22 ± 0.02	0.15 ± 0.02	
Attenuation at 850 nm	≤ 10	≤ 5	≤ 20	≤ 6	≤ 12	≤ 20	dB/km
Geometrical Specifications							
Glass geometry							
Core Diameter	40 ± 3.0	50 ± 3.0	50 ± 3.0	62.5 ± 3.0	105 ± 3.0	105 ± 3.0	μm
Core Non-Circularity	≤ 6.0	≤ 6.0	≤ 6.0	≤ 6.0	≤ 6.0	≤ 6.0	%
Core/Cladding Concentricity Error	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 3.0	≤ 3.0	μm
Cladding Diameter	125.0 ± 2.0	125.0 ± 2.0	125.0 ± 2.0	125.0 ± 2.0	125.0 ± 2.0	125.0 ± 2.0	μm
Cladding Non-Circularity	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	≤ 2.0	%
Coating Geometry							
Coating Diameter	242 ± 10	242 ± 10	242 ± 10	242 ± 10	242 ± 10	242 ± 10	μm
Coating Concentricity Error	≤ 12	≤ 12	≤ 12	≤ 12	≤ 12	≤ 12	μm
Material / environmental specifications							
Core Material	Germanium	Germanium	Germanium	Germanium	Germanium	Germanium	
	doped silica	doped silica	doped silica	doped silica	doped silica	doped silica	
Cladding Material	Pure silica	Pure silica	Pure silica	Pure silica	Pure silica	Pure silica	
Coating Material	Dual layers	Dual layers	Dual layers	Dual layers	Dual layers	Dual layers	
	acrylate	acrylate	acrylate	acrylate	acrylate	acrylate	
Operating Temperature	\geq - 40 to \leq + 85	≥ - 40 to ≤ + 85	\geq - 40 to \leq + 85	≥ - 40 to ≤ + 85	\geq - 40 to \leq + 85	\geq - 40 to \leq + 85	C
		Standard			On request		Units
Mechanical Specifications							
Proof Test Level		0.7 (≥ 100)			1.4 (≥ 200)		GPa (kpai)
Short-Term Bend Radius		> 10			> 5		(kpsi) mm
Long-Term Bend Radius		> 17			>0		mm
Delivery lengths		250 500 1000 2000			< 9		m
		200, 000, 1000, 2000					

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