

Specification Sheet

CK - 100

Plastic Optical Fiber

ESKA

High - Performance Plastic Optical Fiber

E s k a[™]

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1.Scope

This specification covers basic requirements for the structure, optical and mechanical performances of CK - 100.

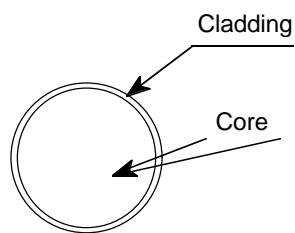
2. Structure

Table1

CK - 100

Item		Specification			
		Unit	Min.	Typ.	Max.
Optical Fiber	Core Material	—	Polymetyl - Methacrylate Resin		
	Cladding Material	—	Fluorinated Polymer		
	Core Refractive Index	—	1.49		
	Numerical Aperture	—	0.5		
	Refractive Index Profile	—	Step Index		
	Core Diameter	μm	2,300	2,450	2,600
	Cladding Diameter	μm	2,350	2,500	2,650
Approximate Weight		g / m	6		

Sectional View



3.Performance

Table2		CK - 100				
		Item	Acceptance Criterion and / or [Test Condition]	Specification		
Unit	Min.			Typ.	Max.	
Maximum Rating	Storage and Operation Temperature	No Deterioration in Optical Properties*	°C	- 55	—	+ 70
	Operation Temperature under high humidity	No Deterioration in Optical Properties** [95 %RH]	°C	-	—	+ 60
Optical Properties	Transmission Loss	650 nm Collimated Light] [Standard condition] [10 m - 1 m cutback]	dB/km	—	—	200
Mechanical Characteristics	Minimum Bend Radius	Loss Increment =< 0.5 dB [Quarter bend]	mm	45	—	—
	Tensile Strength	[Tensile Force at Yield Point] [JIS C 6861]	N	350	—	—

All tests are carried out under temperature of 25°C unless otherwise specified.

* Attenuation change shall be within 10 % after 1,000 hours.

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The specification is subject to change without notice.

The information contained herein is presented as a guide for the product selection. Please contact our business department for the issue of an official specification sheet.