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## **Specification Sheet**

<u>CK - 120</u>

Plastic Optical Fiber

**ESKA** 

High - Performance Plastic Optical Fiber

Eska<sup>™</sup>

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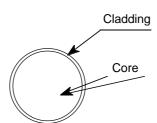
### 1.Scope

This specification covers basic requirements for the structure, optical and mechanical performances of CK - 120.

#### 2. Structure

Table1				CK - 120			
Item		Specification					
		Unit	Min. Typ. N		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	2,770	2,950	3,130		
	Cladding Diameter	μm	2,820	3000	3,180		
Approximate Weight		g / m		9			





#### 3.Performance

Table2				CK - 120			
Item		Acceptance Criterion and / or [Test Condition]	Specification				
			Unit	Min.	Тур.	Max.	
Maximum Rating	Storage and Operation Temperature	No Deterioration in Optical Properties*	$^{\circ}\mathrm{C}$	- 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	60	_	_	
	Tensile Strength	[Tensile Force at Yield Point] [ JIS C 6861]	N	504	_	_	

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

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

<sup>\*\*</sup> Attenuation change shall be within 10 % after 1,000 hours, except that due to absorbed water .

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.