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## **Specification Sheet**

<u>CK - 80</u>

Plastic Optical Fiber

**ESKA** 

High - Performance Plastic Optical Fiber

Eska<sup>™</sup>

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### 1.Scope

#### 2. Structure

Table1				CK - 80			
Item		Specification					
		Unit	Min.	Тур.	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	1,840	1,960	2,080		
	Cladding Diameter	μm	1,880	2,000	2,120		
Approximate Weight		g / m		4			



#### 3.Performance

Table2				CK - 80				
Item		Acceptance Criterion and / or [Test Condition]	Specification					
			Unit	Min.	Тур.	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	40	_	_		
	Tensile Strength	[Tensile Force at Yield Point] [ JIS C 6861]	N	224	_	_		

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.