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Specification Sheet

<u>CK - 40</u>

Plastic Optical Fiber

ESKA

High - Performance Plastic Optical Fiber

 $Eska^{TM}$

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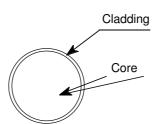
1.Scope

This specification covers basic requirements for the structure, optical and mechanical performances of CK-40.

2. Structure

Table1				CK - 40			
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	ç	920	980	1,040	
	Cladding Diameter	μm	ç	940	1,000	1,060	
Approximate Weight		g / m	1				





3.Performance

Table2			CK - 40				
Item		Acceptance Criterion and / or	Specification				
		[Test Condition]	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	1	_	+ 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	20		_	
	Tensile Strength	[Tensile Force at Yield Point] [JIS C 6861]	N	65	_	_	

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

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

^{**} 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.