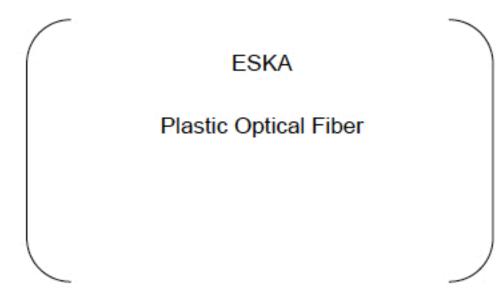
Specification Sheet

<u>CK-40</u>



High-Performance Plastic Optical Fiber

Eska™

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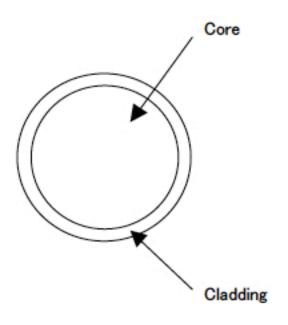
1. Scope

The specification covers basic requirements for the structure and optical performances of CK-40.

2. Structure

Table 1				CK-40			
Item		Specification					
		Unit	Min.	Тур.	Max.		
Optical Fiber 1	Core Material	-	Polymethyl-Methacrylate Resin				
	Cladding Material	-	Fluorinated Polymer				
	Core Refractive Index	—	1.49				
	Refractive Index Profile	-	Step Index				
	Numerical Aperture	-	0.5				
	Core Diameter	μm	920	980	1040		
	Cladding Diameter	μm	940	1000	1060		
Approximate Weight		g/m		1.0			

Sectional View





3. Performances

Table 2

Table 2				CK-40				
Item		Acceptance Criterion and/or	Specification					
		[Test Condition]	Unit	Min.	Тур.	Max.		
Maximum Rating	Storage Temperature	No Physical Deterioration [in a Dry Atmouphere]	°C	- 55	$(1-2)^{2}$	+70		
	Operation Temperature	No Deterioration in Optical Properties [in a Dry Atmouphere]	°C	- 55		+70		
		No Deterioration in Optical Properties [™] [under 95%RH condition]	°C	-		+60		
Optical Properties	Transmission Loss	[650nm Collimated Light] [Standard condition] [10m-1m cutback]	dB/km			200		
Mechanical Characteristics	Minimum Bend Radius	Loss Increment ≦0.5dB [A Quarter Bend]	mm	25		-		
	Tensile Strength	Tensile Force at 5% Elongation; in Conformity to the JIS C 6861]	N	65	2 — 1	, <u>—</u>		

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.

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