1. Scope

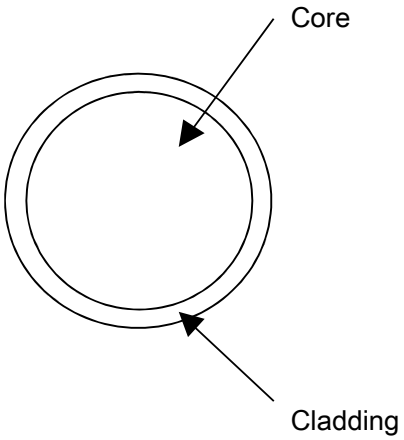
The specification covers basic requirements for the structure and optical performances of SK-10

2. Structure

Table 1

Item		SK-10 Specification Unit	Min.	Typ.	Max.
Optical Fiber	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	217	240	263
	Cladding Diameter	μm	227	250	273
Approximate Weight		g/m	0.1		

Sectional View



3. Performances

Table 2

Item		Acceptance Criterion and/or [Test Condition]	SK-10 Specification			
			Unit	Min.	Typ.	Max.
Maximum Rating	Storage and Operation Temperature	No Deterioration in Optical Properties*	℃	−55	−	+70
	Operation Temperature under high humidity	No Deterioration in Optical Properties** [95%RH]	℃	−	−	+60
Optical Properties	Transmission Loss	[650nm Collimated Light] [Standard condition] [10m-1m cutback]	dB/km	−	−	300
Mechanical Characteristics	Minimum Bend Radius	Loss Increment ≦0.5dB [Quarter Bend]	mm	5	−	−
	Tensile Strength	[Tensile Force at Yield Point] [JIS C 6861]	N	3	−	−

All tests are carried out under temperature of 25℃ 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 specifications is subject to change without notice.
The information contained herein is presented as guide for the product selection.
Please contact our business department for the issue of an official specification sheet.