No.

1. Scope

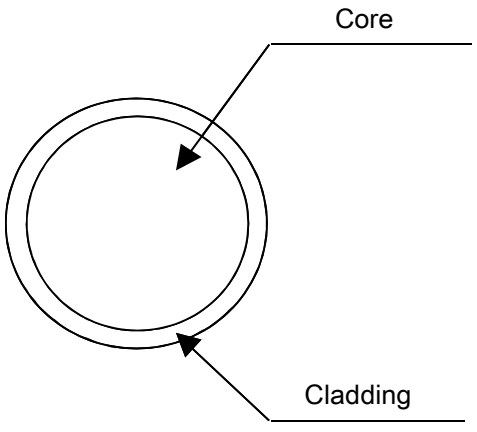
The specification covers basic requirements for the structure and optical performances of CK-80.

2. Structure

Table 1

Item		CK-80 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	1,840	1,960	2,080
	Cladding Diameter	μm	1,880	2,000	2,120
Approximate Weight		g/m	4		

Sectional View



3. Performances

Table 2

Item		Acceptance Criterion and/or [Test Condition]	CK-80 Specification			
			Unit	Min.	Typ.	Max.
Maximum Rating	Storage Temperature	No Deterioration in Optical Properties	℃	−55	−	+70
	Operation Temperature	No Deterioration in Optical Properties* [in a Dry Atmosphere]	℃	−55	−	+70
		No Deterioration in Optical Properties** [95%RH]	℃	−	−	+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	80	−	−
	Tensile Strength	[Tensile Force at Yield Point] [JIS C 6861]	N	260	−	−

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.