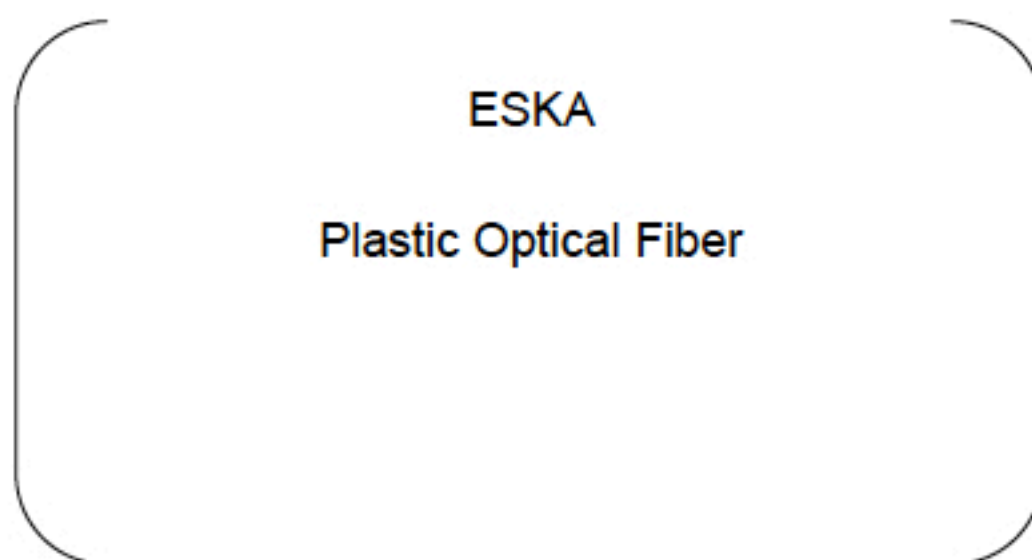


**Mitsubishi International Corporation**

# Specification Sheet

CK-60



High-Performance Plastic Optical Fiber

**E s k a™**

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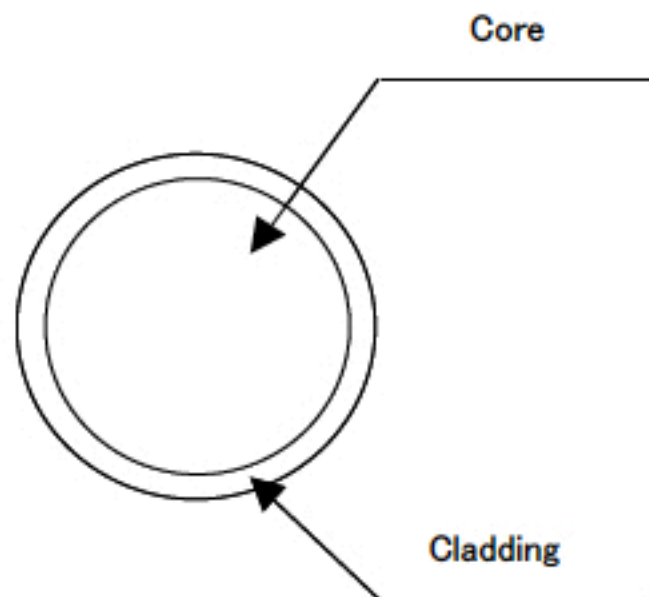
## 1. Scope

The specification covers basic requirements for the structure and optical performances of CK-60.

## 2. Structure

Table 1

Item		CK-60			
		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	1380	1470	1560
	Cladding Diameter	μm	1410	1500	1590
Approximate Weight		g/m	2.2		

Sectional View

## 3. Performances

Table 2

Item		Acceptance Criterion and/or [ Test Condition ]	CK-60			
			Unit	Min.	Typ.	Max.
Maximum Rating	Storage Temperature	No Deterioration in Optical Properties	°C	- 55	-	+70
	Operation Temperature	No Deterioration in Optical Properties* [ in a Dry Atmosphere ]	°C	- 55	-	+70
		No Deterioration in Optical Properties** [ 95%RH ]	°C	-	-	+60
Optical Properties	Transmission Loss	[ 650nm Collimated Light ] [ Standard condition ] [ 10m-1m cutback ]	dB/km	-	-	200
Mechanical Characteristics	Minimum Bend Radius	Loss Increment $\leq 0.5$ dB [ A Quarter Bend ]	mm	40	-	-
	Tensile Strength	[ Tensile Force at Yield Point ] [ JIS C 6861 ]	N	145	-	-

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.