Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

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Specification Sheet

SK-10

Super ESKA

Plastic Optical Fiber

High-Performance Plastic Optical Fiber

E s k a™

MITSUBISHI RAYON CO.,LTD.

ESKA OPTICAL FIBER DIVISION

6-41 Konan 1-Chome,Minato-ku,Tokyo,JAPAN

Phone :+81-3-5495-3060

Facsimile : +81-3-5495-3212

1. Scope

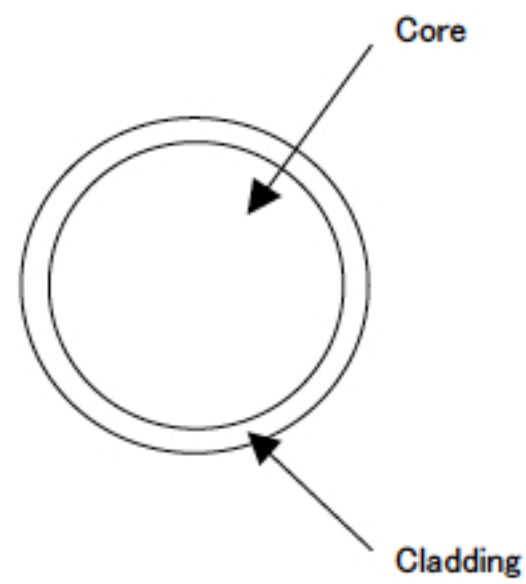
   The specification covers basic requirements for the structure, optical and mechanical performances of SK-10

2. Structure

Table 1

Item		SK-10 Specification			
		Unit	Min.	Typ.	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	217	240	263
	Cladding Diameter	μm	227	250	273
Approximate Weight		g/m	0.06		

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.