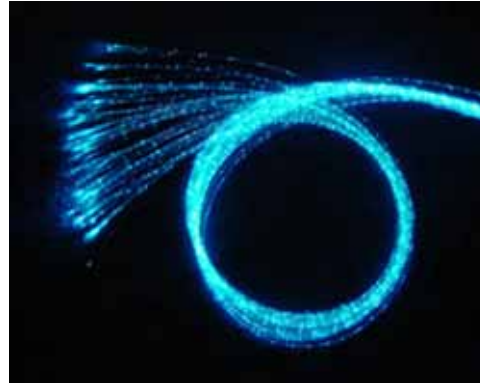
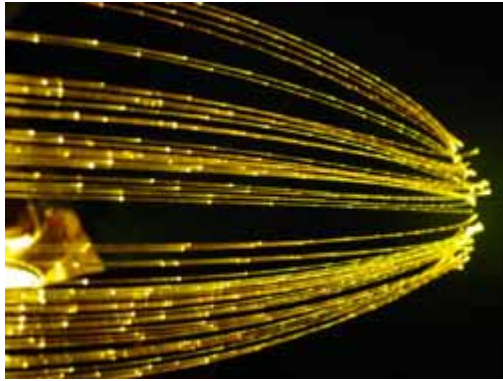


## FRANKEVER LIGHTING OPTIC FIBER

### 1, SOF Series: Star-twinkling Optical Fiber And Cable



#### Model Specifications

Model	Core number	Optical fiber/cable diameter (mm)	Section length (m)	Buffer material
SOF-500	1	0.50	6000	Transparent PVC
SOF-750	1	0.75	2700	
SOF-1000	1	1.0	1500	
SOF-750-3	3	0.75/3.0	450	
SOF-750-4	4	0.75/3.0	450	
SOF-750-7	7	0.75/4.0	450	

#### Basic Properties

<b>Fiber core/ clad material</b>	PMMA/ Fluoresin
<b>Numerical aperture</b>	0.5
<b>Cable diameter fluctuation</b>	± 5%
<b>Attenuation</b>	0.4dB/m
<b>Cable appearance</b>	Smooth surface, no visible crackles or mechanical damage

#### Features

Regular shining star effect is created by the fiber and cable, with end-emitting effect;  
 Better anti-crunch, anti-stretch, anti-grinding and anti-aging performances brought by the transparent PVC jacket;  
 Star-twinkling effect is created with special light source for artistic designers.

#### Applications

Used as wall lighting curtain and footpath of KTV, pubs, coffee houses and restaurants;  
 Artistic drop lamp; Optical fiber folding screen;  
 Moving lighting and waterfall curtain.

**2, MEV Series: Multi-core End-light Optical Fiber Cable**



**Model Specification**

Model	Core number	Optical fiber/cable diameter (mm)	Section length (m)	Buffer material
MEV-750-4	4	0.75/3.0	450	Black PVC
MEV-750-7	7	0.75/4.0	450	
MEV-750-14	14	0.75/5.0	300	
MEV-750-25	25	0.75/6.0	100	
MEV-750-42	42	0.75/10	100	
MEV-750-75	75	0.75/12	100	
MEV-750-126	126	0.75/14	100	Black PVC
MEV-1000-4	4	1.0/4.0	500	
MEV-1000-7	7	1.0/5.0	200	
MEV-1000-14	14	1.0/6.0	100	
MEV-1000-25	25	1.0/10	100	
MEV-1000-42	42	1.0/12	100	

**Note:** The multicore cable of different structure and core numbers can be customized according to customer requirements.

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**Basic properties**

<b>Fiber core/clad material</b>	Polymethylmethacrylate (PMMA)/Fluoresin
<b>Numerical</b>	0.5
<b>Cable appearance</b>	Smooth surface, no visible crackles, defects or mechanical damage
<b>Cable diameter fluctuation</b>	± 5%
<b>Attenuation</b>	0.4dB/m
<b>Using temperature Range of the cable</b>	-20~+70

**Features**

Better anti-crunch, anti-stretch, anti-grinding, and anti-aging performances brought by the black PVC jacket, extending operation life;

Unique loose jacket adopted in the lighting series, easy to peel off;

Varied end-lighting effect created by cables (with different number of fibers) of different diameters;

Better end-lighting effect than single core fiber or cable.

**Applications**

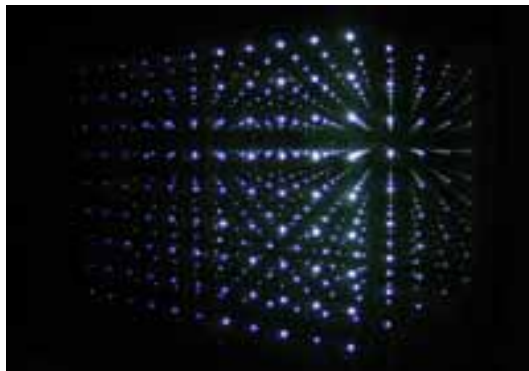
Used with special light source, the fiber end can give pure-colored and soft light, and can be implemented in demanding indoor or outdoor lighting systems;

Since it does not transmit ultraviolet or infrared and does not conduct heat or electricity, this fiber can be used in special illumination projects like underwater, oil stock house and museum illumination.

**3, SEV Series: Single-core End-light Optical Fiber Cable**

**Basic Properties:**

<b>Fiber core/clad material</b>	PMMA/Fluoresin
<b>Numerical aperture</b>	0.5
<b>Cable appearance</b>	Smooth surface, no visible crackles, mechanical damage
<b>Cable diameter fluctuation</b>	5%
<b>Attenuation</b>	0.4dB/m
<b>Using temperature range of the cable</b>	-20~+70



**Model Specifications**

<b>Model</b>	<b>Optical fiber diameter (mm)</b>	<b>Optical fiber cable diameter (mm)</b>	<b>Coil length (m)</b>	<b>Buffer material</b>
<b>SEV-500</b>	0.5	1.0	1000	Black PE
<b>SEV-750A</b>	0.75	1.2	450	
<b>SEV-750</b>	0.75	2.2	450	
<b>SEV-1000A</b>	1.0	1.6	1500/500	
<b>SEV-1000</b>	1.0	2.2	1500/500	
<b>SEV-1500</b>	1.5	2.5	700	
<b>SEV-2000</b>	2.0	3.0	350	
<b>SEV-2500</b>	2.5	3.5	250	
<b>SEV-3000</b>	3.0	4.0	150	

### **Applications**

Used with special light source, the fiber end can give pure-colored and soft light, and can be an artistically nice choice for light decoration like Starts ceiling, optical fiber 3-D mirror, optical fiber drop lamp, optical fiber signs and etc.

Since it does not transmit ultraviolet or infrared, and does not conduct heat or electricity, this fiber can be used in special illumination projects like underwater, oil stock house and museum illumination.

### **Features**

Better anti-crunch, anti-stretch, anti-grinding and anti-aging performances brought by the black PE jacket, extending using life;

Unique loose jacket adopted in the lighting series, easy to peel off;

Varied end-lighting effects created by fibers or cables of different diameters.

## **4, EL Series: End-light Optical Fiber**



### **Model Specification**

<b>Model</b>	<b>Optical fiber diameter (mm)</b>	<b>Coil length (m)</b>
<b>EL-500</b>	0.5	6000
<b>EL-750</b>	0.75	2700
<b>EL-1000</b>	1.0	1500
<b>EL-1500</b>	1.5	700
<b>EL-2000</b>	2.0	350
<b>EL-2500</b>	2.5	250
<b>EL-3000</b>	3.0	150

**Basic properties:**

<b>Fiber core/clad material</b>	PMMA/Fluoresin
<b>Numerical aperture</b>	0.5
<b>Cable appearance</b>	Smooth, transparent
<b>Cable diameter fluctuation</b>	5%
<b>Attenuation</b>	0.4dB/m
<b>Elongation-at-yield rate</b>	4
<b>Allowable bend radius</b>	No less than ten times of the optical fiber
<b>Using temperature range of the cable</b>	-20~+70

**Feature:**

Low-loss optical window in the light-visible area, and ability to transmit visible light but not ultraviolet or infrared;

No conductivity or heat transfer;

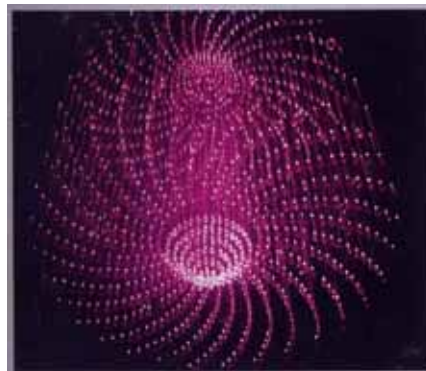
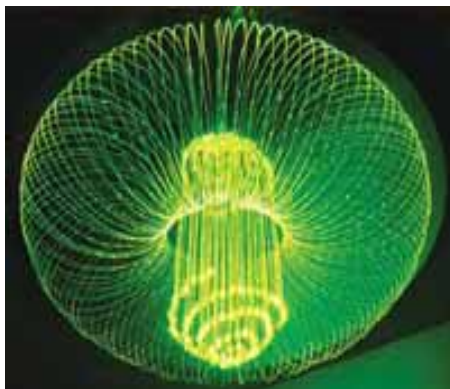
Smooth surface, good flexibility, bendable shape;

Strongest light effect at the end of the fiber.

**Applications**

Used with special light source, the fiber end can give pure-colored and soft light, and can be an artistically nice choice for light decoration like Stars ceiling lamp. Optical fiber 3-D mirror, optical fiber signs and etc.; since it does not transmit ultraviolet or infrared, and does not conduct heat or electricity, this fiber can be used in special illumination projects like underwater, oil stock house, and museum illumination.

**5, MS Series: Mini-diameter Side Light Optical Fiber**



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### Model Specification

Model	Optical fiber diameter (mm)	Coil length (M)
MS-750	0.75	2700
MS-1000	1.0	1000
MS-1500	1.5	700
MS-2000	2.0	350
MS-2500	2.5	250
MS-3000	3.0	150

### Features

2-3 Times more bright than end-light optical fiber, ability to transmit visible light but not ultraviolet or infrared;

No conductivity or heat transfer;

Smooth surface, transparent, good flexibility, bendable shape

### Applications

Ornamentation for linear profile and providing a creative source of artistic crafts;

Decorated with crystal fittings, the optic fiber lamp is more bright and charming.

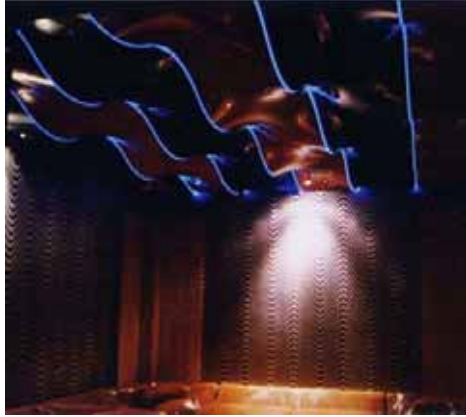
Optic fiber lighting curtain and hall drop lamp decoration show the grace of fiber optic;

Mini-diameter side light optical fiber is the top choice for making an optical fiber mural.

### Basic properties

<b>Fiber core material</b>	Polymethyl methacrylate (PMMA)
<b>Clad material</b>	Fluoresin
<b>Appearance</b>	Smooth, transparent
<b>Numerical aperture</b>	0.5
<b>Attenuation</b>	0.4dB/m
<b>Allowable bend radius</b>	No less than ten times of the optical fiber diameter
<b>Using temperature range</b>	-20~+70

**6, ISL Series: Infilled Side Light Optical Fiber and Cable**



**Model Specifications**

Model	Optical fiber diameter (mm)	Optical fiber cable diameter (mm)	Optical fiber material
ISL-2	2		Polyacrylate/ Fluoresin
ISL-3	3		
ISL-5	5		
ISL-6	6		
ISL-8	8		
ISL-10	10		
ISL-12	12		
ISL-14	14		
ISL-16	16		
ISL-18	18		
ISLV-2T	2	3.5	Polyacrylate/ Fluoresin/ With Transparent PVC Jacket
ISLV-2.5T	2.5	4	
ISLV-3T	3	4.5	
ISLV-6T	6	8.8	
ISLV-8T	8	11	
ISLV-10T	10	13	
ISLV-11T	11	14	
ISLV-12T	12	14	
ISLV-14T	14	17.3	
ISLV-16T	16	18	
ISLV-18T	18	20	



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ISLV-2B	2	2	Polyacrylate/ Fluoresin/ With Black PVC Jacket
ISLV-2.5B	2.5	2.5	
ISLV-3B	3	3	
ISLV-5B	5	5	
ISLV-6B	6	6	
ISLV-8B	8	8	
ISLV-10B	10	10	
ISLV-11B	11	11	
ISLV-12B	12	12	
ISLV-14B	14	14	

### Basic properties

<b>Jacket material</b>	Transparent, anti-ultraviolet PVC
<b>Numerical aperture</b>	0.5
<b>Attenuation</b>	0.35dB/m
<b>Allowable bend radius</b>	10 times of cable diameter
<b>Using temperature range Of the cable</b>	-20~+70

### Features

More even side light effect, longer transmission distance reaching max.30 meters; Giving multi-color side-light effect when used together with special light source.

### Applications

Interior lighting decoration of KTV, pubs, coffee houses, hotels and restaurants;

Artistic adornment in graphical and 3D artistic design;

Lighting in swimming pools and underwater facilities.

### 7, TSL Series: Twisted Side Light Optical Cable



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**Model specification**

Model	Core number	Optical fiber diameter	Optical fiber material
TSL-750-14	14	0.75/6.0	Polymethyl methacrylate/ Fluoresin/With Transparent PVC jacket
TSL-750-42	42	0.75/10.0	
TSL-750-84	84	0.75/14.0	
TSL-750-126	126	0.75/18.0	

**Basic properties**

<b>Jacket material</b>	Transparent, anti-ultraviolet PVC
<b>Numerical aperture</b>	0.5
<b>Attenuation</b>	0.35dB/m
<b>Allowable bend radius</b>	10 times of cable diameter
<b>Using temperature range Of the cable</b>	-20~+70

**Features**

More brightness and longer transmission distance than mini-diameter side light optical fiber by increasing fiber number;

More soft, bendable and easy to conduct than infilled side light optical cable;

Resistible to cold and hot temperatures, more durable than infilled side light optical cable;

Presenting a twinkling-light effect when used together with special light source.

**Applications**

Interior lighting decoration of KTV, pubs, coffee houses, hotels and restaurants;

Artistic adornment in graphical and 3D artistic design;

Lighting in swimming pools and underwater facilities;

Large-size backdrop of lighting waterfall.