SFINER PRODUCT CATALOGUE



shiner-fiber.com.tw

COMPANY PROFILE

SHINER FIBER OPTICS Co. Ltd was founded in 1987 and our company first started as Telecom engineering technics. In 1993, in order to meet the government's need (Statute for upgrading industry), SHINER FIBER decided to transform into Fiber Optic products for the lighting marketplace. In 1994, our company cooperated with Industrial Technology Research Institute (Acrylic Optical-Fiber development plan) and with the help of all the fellows from Chemical

Engineering Institute, Shiner Fiber company was recommended by the Promotion Committee of Hsinchu City. After 2 years (1996), Our company became the first Optical Fiber lighting manufacturer in Taiwan. Shiner Fiber company dedicated to invent all kinds of POFLPS (Plastics Optic Fiber Light Pipes).

In the year of 2011, super bright POFLPS was developed successfully.

Fiber optic products are indispensable nowadays as well as in the future. In a state of network without borders, Shiner Fiber Optics company aims to create better quality living to our customers as well as to find ways that advance their lives.

Due to the current energy crisis these days, it is essential to make a good use of different kinds of materials and current resources in order to discover new energy and to save energy.

- various end/ side light fibers produced
- fiber optic products design
- various plastic fibers produced



- ISO 9001 implementation

laptops bikes, etc.

- moved to new office building



- decorative illumination in building and other application design
- LED products produced and design
- customized optical fiber products produced and design



Side Light Series

POFLPS PLASTICS OPTIC FIBER LIGHT PIPES

Optic fibre consists of a solid core and cladding. The solid core is made from a specialized elastomeric material, while the cladding is made from a flourine polymer. POFLPS are easy to wiring, as they have excellent felxibility and simplicity of the end surface treatment.

Specification

Bend radius Appearance as ligh Ambient temperatu Physical properties

Style No.	
	ge of attenuat
TS-0200 2.0 0 100.00%	38.61%
TS-0300 3.0 0 40.00%	70-
TS-0350 3.5 30.00%	
TS-0400 4.0 20.00%	
TS-0500 5.0 10.00%	
TS-0600 6.0 0.00%	0cm 20cm
TS-0800 8.0 Lux 1	158 61



	outer jacket - fluorine polymer , Color - Clear , Solid core- high polymer 5~8 times of cable diameter
nt emitting ure	side glow -45°C~90°C
5	Light is transmitted over the entire length of the cable without electricity or heat with the illuminators placed at both ends of flexible plastic fibers. It's suggested that using a maximum of 2 meters to ensure quality lighting and optimum performance.



POFLPS PLASTICS OPTIC FIBER LIGHT PIPES

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Specification	outer jacket - fluorine polymer , Color - Bright , Solid core- high polymer			
Bend radius	5~8 times of cable diameter			
Appearance as light emitting	side glow			
Ambient temperature	-45°C~90°C			
Physical properties	Light is transmitted over the entire length of the cable without electricity or heat with the illuminators placed at both ends of flexible plastic fibers. It's suggested that using a maximum of 2 meters to ensure quality lighting and optimum performance.			



POFLPS PLASTICS OPTIC FIBER LIGHT PIPES

Specification

Side Light Series

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Diameter Style No. TW attenuation line chart (the example of 5mm diameter) TW-0200 Percentage of attenuation 2.0 TW-0220 2.2 86.46% 100.00% TW-0300 3.0 80.00% TW-0350 3.5 60.00% TW-0500 5.0 40.00% TW-0600 6.0 20.00% TW-0630 6.3 0.00% TW-0800 8.0 TW-1000 10.0

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Specification	outer jacket - fluorine polymer , Color - White , Solid core- high polymer			
Bend radius	5~8 times of cable diameter			
Appearance as light emitting	side glow			
Ambient temperature	-45°C~90°C			
Physical properties	Light is transmitted over the entire length of the cable without electricity or heat with the illuminators placed at both ends of flexible plastic fibers. It's suggested that using a maximum of 2 meters to ensure quality lighting and optimum performance.			



PRODUCT Comparison

The comparison of TS TSS TW attenuation



The illustrations of TS TSS TW with and without lights

ΤW



LGC

POFLPS MULTI-FIBER LIGHT GUIDE CABLE

LGC consists of UL cables. POFLPS and the protective cladding. The inner layer of the light pipe is made from special light guide PMMA while the cladding is made from fluorine polymer. LGC has the effect of transmitting power and light.

Structure of the product LGC structure shows as follows:

Outside

(mm)

diameter

Cut Length

LGC consists of 2 UL AWG#24, 2 AWG-#26, and 3 plastic optical fiber light pipes with an outer diameter size of 0.75mm twisted together and cladded with fluorine polymer material.



Physical properties Remarks: There will be no notice if any specifications change. With function of standard power cable.

Flexible and bendable.

Features

- Power cables comply with UL rules and regulations.
- With the brilliance of optical fiber light guide.
- The numbers of cable cores are customized.

			71 5					
	Dimension	Size tolerance	Style No./ Description					
	3.3mm	±0.2	LGCφ3.3±0.2mm AWG#24 and AWG#26 cables comply with UL rules and regulations.					
	LGC color (without lights): white Cablescan be colorful in the control of RGB LED lights.							
Customized length as requested								

Sectional view of LGC as shown below

POFLPS MULTI-FIBER LIGHT PIPF

LGP

LGP consists of multiple plastic optical fiber light pipes and protective cladding. The inner layer of the light pipe is made from special light guide PMMA while the cladding is made from fluorine polymer. LGP has the effect of transmitting light.

Features With functions are the same as POFLPS With the brilliance of optical fiber light guide. Variety of colors. Īr Flexible and bendable.

Structure of the product

cladding.

		Dimension	Size tolerance			Style No./ Description
Outside		3.0mm	±0.2	LGP consists of 7 POFLPS with a diameter of 0.75mm and protective cladding.		
	diameter (mm)		nsparent w n be color		ont	rol of RGB LED lights.
	Length	Customized length as requested				
nstructions This is a RoHS compliant product.						
lease check up every factors that may change the features of LGP. There will be some differences under different methods and conditions.					1	This product cannot be overstretched, over bent or overloaded. These are the possibilities that may cause appearance flaws.
2 It is bendable.					To protect the outer cladding, please avoid any sharp objects which may cause appearance flaws.	
Please make sure the light sources are in good condition.			in good		Please keep the products in the normal temperature environment.	

1	lease check up eve features of LGP. T under different me
2	It is bondable



I GP structure shows as follows:

LGP consists of 7 POFLPS with a diameter of 0.75mm and protective Sectional view of LGP as shown below



Physical properties Remarks: There will be no notice if any specifications change.

LGL

POFLPS LIGHT GUIDE CABLE

Features

LGL consists of one power cable, a light pipe layer made from a specialized elastomeric material, and protective cladding. The claddingis made from fluorine polymer. LGL has the effect of transmitting power and light.

 With functions are the same as standard power cables With the brilliance of optical fiber

The numbers of cable cores are

Power cables comply with UL rules

light guide Flexible and bendable.

customized.

and regulations.

Specification of LGL

- The outer layer is made of Bright Fluorocarbon resin. In the second layer of LGL, there is a light-guiding resin.
- LED lights need to be placed at both ends of the cables.
- The UL1332 AWG-22-2Cpower cable is placed in the middle of the product.





LGL structure shows as follows:

4.1

Physical properties Remarks: There will be no notice if any specifications change.

	Dimension	Size tolerance	Style No./ Description		
Outside		±0.2	LGLφ6.0±0.2mm AWG22-2C cables comply with UL rules and regulations.		
	LGL color (without lights): Bright Cablescan be colorful in the control of RGB LED lights.				
Length	Customized length as requested				
			This is a RoHS compliant product.		

Instructions

- Please check up every factors that may change the features of LGL. There will be some differences under different methods and conditions.
- 2 It is bendable.
 - Please make sure the light sources are in good condition.

This product cannot be overstretched, over bent or overloaded. These are the possibilities that may cause appearance flaws.

- To protect the outer cladding, please avoid any sharp objects which may cause appearance flaws.
- Please keep the products in the normal temperature environment.

PRODUCT APPLICATIONS



SHINER FIBER OPTICS CO. LTD.

PRODUCT APPLICATIONS





Various clothinglighting

PRODUCT APPLICATIONS





SHINER FIBER OPTICS CO., LTD.

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