LED
LL
DP
CD
WW
CS
CF
AC
CG
CB
LC
FO
EL

Fiber Optic

Fiber optic lighting is the transmission of light, generated by a light generator, to the desired area through the medium of fiber optic cables. The source of light undertakes the task of light generation and the fiber optic cable , the task of light transmitter. The only limit in designing with the fiber optic lighting system is your imagination. You can apply almost everything that you can imagine. The most fundamental characteristics of fiber optic lighting technology, which creates its difference to other lighting technologies are freedom and flexibility. You have the freedom to place the light source, used for fiber optic lighting systems, at any desired location. This notion of freedom comes with plenty of advantages.

The Fiber Optic lighting system is comprised of 2 main parts :

-Light source

-Fiber Optic cable harness

(*) IF demanded, fiber optic cables can be used with lens luminaires attached to them.

The Fiber Optic cables are harnessed after being cut in compliance with the prepared project architetural design or requirement. These harnesses are placed to the light source (point of origin of light) with terminal sleeves. Thus, the light, generated by the light source , is transmitted through the fiber optic harness to the luminaire or directly bare fiber optic end. A single Fiber optic cable harness is comprised of fiber optic cables, with the same or different diameters or lengths,which are completely determined acccording to your needs. Fiber optic lighting system delivers a lighting marvel which will stretch the imagination in architectural design, making the separation of luminaire and light source via fiberoptic cables. The luminaires to be used include a wide range of variety, depending upon the architecture of the venues (such as a crystal end,a terminal end, lens luminaires)

Intended use of lens luminaire

-Aesthetical an aesthetic apperance

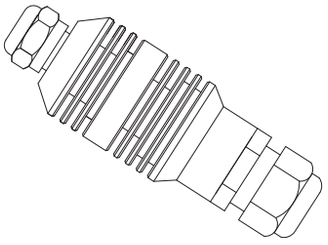
-More intensive light

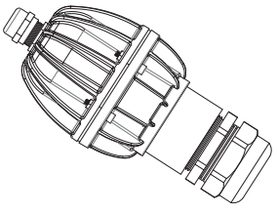
-Where spot lighting is needed.

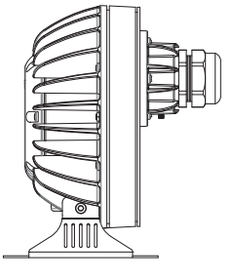
-Where flood lighting is needed.

Additionally, these luminaires also take precedence over the conventional lighting components due to their smaller dimensions and offering the capability to be equiped with optic lenses. The outlet angle of the light can be lowered to 1 degree from 120 degrees with luminaires selected for proper use, in order to increase the light intensity. Thus, the desired effect can clearly be achieved.

Fiber Optic Products







Fiber Optic - Fiber Optic Products and Accessories

IK7

IK77

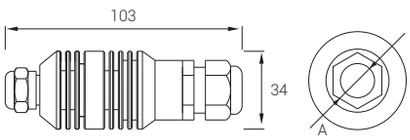
IK777

FOK

Ankara Mall, Ankara

Light Source

Toaz Hotel, Russia



In mm

IK7 P C

P PCB & LED & Power

C Color Light

P LED & POWER OPTIONS

Product Name	Light Color	Input Voltage (V)	Led Quantity (qty)	Power (W)	Diameter (A) (mm)	Product Weight (kg)
IK7	WW-NW-CW	220V AC	1	2	Ø12	0,3
IK7	WW-NW-CW	5V DC	1	2	Ø12	0,3
IK7	RGB	7,5V DC	1	6	Ø12	0,3

ELECTROMECHANICAL SPECIFICATIONS

- Aluminum body
- Fixed (unchanging) or changing color option
- Works silently, without the need for fan cooling
- *Up to 200 mixed fiber optic strands

See size options in table FO package options

IP 44 | Ta 0° +50° | Ra>85 | 3-step MacAdam

Light Source 7

C LIGHT COLOR OPTIONS

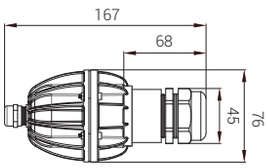
WW: Warm White	3000K	**R:** Red	625nm
NW: Natural White	4000K	**G:** Green	525nm
CW: Cold White	6500K	**B:** Blue	465nm
RGB		**A:** Amber	590nm

FO PACKAGE OPTIONS

Fiber Optic Cable Type	50 Mixed strand (qty)	75 Mixed strand (qty)	100 Mixed strand (qty)	150 Mixed strand (qty)	200 Mixed strand (qty)
20	0	0	0	88	133
30	20	40	60	30	40
40	10	16	25	15	15
60	8	10	8	10	8
80	6	5	5	5	2
100	3	2	1	1	1
120	3	2	1	1	1

CONTROL SYSTEM OPTIONS

Color Type	RC	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•	•			•	•	
R,G,B,A	•	•			•	•	
RGB	•	•					
RGBA/W							
RGB DMX				•			
WHITE DMX				•			



In mm

IK77 P C

P PCB & LED & Power

C Color Light

P LED & POWER OPTIONS

Product Name	Light Color	Input Voltage (V)	Led Quantity (qty)	Power (W)	Diameter (A) (mm)	Product Weight (kg)
IK77	WW-NW-CW	220V AC	9	10	Ø76	0,53
IK77	WW-NW-CW	12V DC	9	13	Ø76	0,53
IK77	WW-NW-CW	12V DC	9	18	Ø76	0,53
IK77	RGB	12V DC	9	18	Ø76	0,53

ELECTROMECHANICAL SPECIFICATIONS

- Electrostatic powder coated aluminum injection body
- Fixed (unchanging) or changing color option
- Works silently, without the need for fan cooling
- *Comes with up to 400 mixed fiber optic strands

*See size options in table FO package options

IP 44 | Ta 0° +50° | Ra>85 | 3-step MacAdam

Light Source 77

C LIGHT COLOR OPTIONS

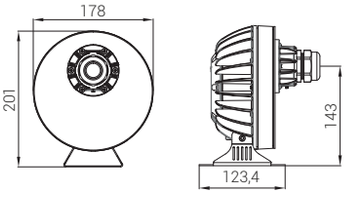
WW: Warm White	3000K	**R:** Red	625nm
NW: Natural White	4000K	**G:** Green	525nm
CW: Cold White	6500K	**B:** Blue	465nm
RGB		**A:** Amber	590nm

FO PACKAGE OPTIONS

Fiber Optic Cable Type	100 Mixed strand (qty)	150 Mixed strand (qty)	200 Mixed strand (qty)	250 Mixed strand (qty)	300 Mixed strand (qty)	350 Mixed strand (qty)	400 Mixed strand (qty)
20	0	35	60	90	120	140	150
30	20	30	40	60	90	100	120
40	20	25	35	30	40	60	90
60	18	20	30	35	20	28	22
80	16	16	18	20	15	10	10
100	14	12	10	10	9	6	4
120	12	12	7	5	6	6	4

CONTROL SYSTEM OPTIONS

Color Type	RC	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•	•			•	•	
R,G,B,A	•	•			•	•	
RGB	•	•					
RGBA/W							
RGB DMX				•			
WHITE DMX				•			



In mm

PCB & LED & Power
Color Light
Upper Pieces

IK777 P C U

P LED & POWER OPTIONS

Product Name	Light Color	Input Voltage (V)	Led Quantity (qty)	Power (W)	Measurements (AxB) (mm)	Product Weight (kg)
IK777	WW-NW-CW	220V AC	1	25	178X201	2,1
IK777	WW-NW-CW	220V AC	1	40	178X201	2,1

ELECTROMECHANICAL SPECIFICATIONS

- Electrostatic powder coated aluminum injection body
- Mechanical or color filter option
- High efficiency with Multi-Chip LED
- Fixed (unchanging) or changing color options
- Works silently, without the need for fan cooling
- *Comes with up to 400 mixed fiber optic strands

*See size options in table FO package options

IP 54 | Ta 0°/+50° | Ra>85 | 3-step MacAdam | IK 08

Light Source 777

C LIGHT COLOR OPTIONS

WW: Warm White	3000K	**R:** Red	625nm
NW: Natural White	4000K	**G:** Green	525nm
CW: Cold White	6500K	**B:** Blue	465nm
RGB		**A:** Amber	590nm

U FILTER OPTIONS


25: Mechanical Filter **26:** Color Filter

FO PACKAGE OPTIONS

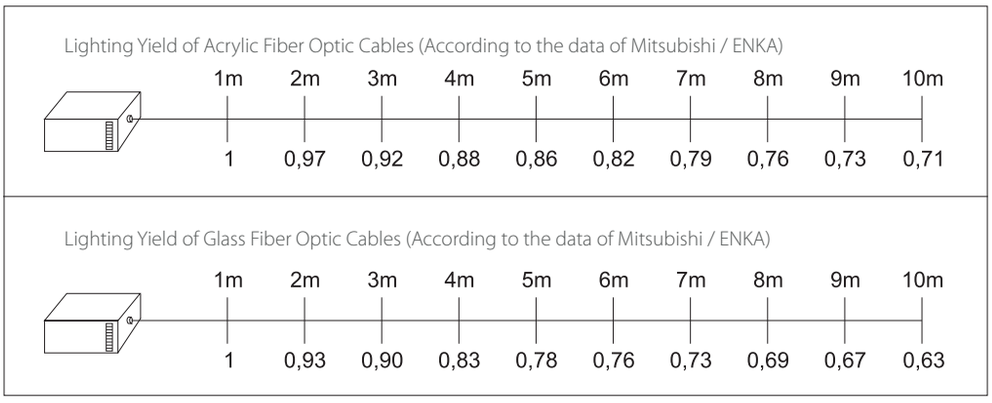
Fiber Optic Cable Type	100 Mixed strand (qty)	150 Mixed strand (qty)	200 Mixed strand (qty)	250 Mixed strand (qty)	300 Mixed strand (qty)	350 Mixed strand (qty)	400 Mixed strand (qty)
20	0	35	60	90	120	140	150
30	20	30	40	60	90	100	120
40	20	25	35	30	40	60	90
60	18	20	30	35	20	28	22
80	16	16	18	20	15	10	10
100	14	12	10	10	9	6	4
120	12	12	7	5	6	6	4

CONTROL SYSTEM OPTIONS

Color Type	RC	PWM	INV PWM	DMX	DALI	0-10V DC	TRIAC
WW-NW-CW	•	•			•	•	
R,G,B,A	•	•			•	•	
RGB							
RGBA/W							
RGB DMX							
WHITE DMX							

Buzul Pub, Antalya

Fiber Optic Cables



FiberOptic Cables / FOK

These are the system's basic components that enable the transportation of the light, generated at the light source, to the area of usage. The fiber optic cables are lifetime guaranteed, except the circumstances of application of force and fading or degradation would not occur in the light transported by such cables. Fiber optic cables can be applied anywhere between the temperatures of +110°C and -40°C and are resistant against adverse conditions such as underground, underwater, inner concrete and humid areas. Due to being light transporters, these cables do not cause any risk of power failure. All of the fiber optic cables, utilised for our products, are fiber optic cables manufactured by the Mitsubishi Company. Mitsubishi, which has been manufacturing fiber optic cables since 1975, is one of the best companies throughout the world in this regard. Mitsubishi, aside from our company, exports these cables to many highly qualified companies, located in the in the USA and Europe. Fiber optic cables are manufactured as bared in two main forms which are glass and acrylic. The cutting and shaping, forming harnesses, encasement and finishing of fiber optic cables, depending on needs, which we import in reels, unprocessed, are performed by our company.

Acrylic Fiber Optic Cables

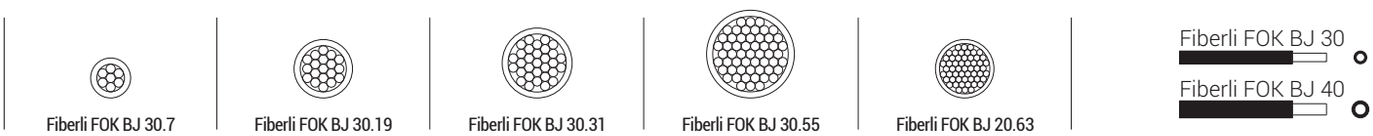
Poly Methyl Methacrylate (PMMA) is utilised as a basic substance for the structures of these cables. These are manufactured in diameters between 0.25 mm and 3 mm. The cables can provide long term runtime between the degrees of -40 and +70 °C and short term runtime up to +110°C. These can enable the transportation of the generated light, when affixed to the light outlets of light sources. As these cables can radiate from ends, they can also be ensured to give off light from the side after being harnessed or braided or to transport more quantity of light by being harnessed and encased. The cutting of parts of the cables, which are affixed to the light sources, require quite a specific technology, thus making the on-site manufacturing of fiber optic systems rather difficult. Due to the aforesaid fact, we forge package systems, by merging the ends of fiber optic cables, in a given number and dimensions or prepare cables at the required dimensions and quantities.

Non-sheathed Cables

Product Code	Section	Section area (mm²)	Diameter (mm)	m/mkr
Fiberli FOK 10		0,049	0,25	12.000
Fiberli FOK 20		0,196	0,50	6.000
Fiberli FOK 30		0,441	0,75	2.700
Fiberli FOK 40		0,785	1,00	1.500
Fiberli FOK 60		1,766	1,50	700
Fiberli FOK 80		3,140	2,00	250
Fiberli FOK 100		4,906	2,50	250
Fiberli FOK 120		7,065	3,00	150

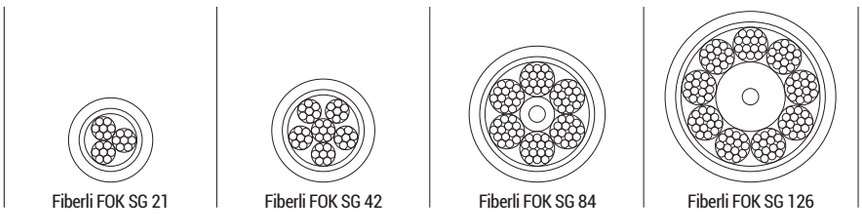
End Radiant Unsheated Cables

Product Code	Instruction	Section area (mm²)	Diameter (mm)	m/mkr
Fiberli FOK BJ 30	Black Jacketed PMMA	0,441	0,75	500
Fiberli FOK BJ 40	Black Jacketed PMMA	0,785	1,00	500
Fiberli FOK BJ 30.7	Black Jacketed PMMA	3,080	3,25	100
Fiberli FOK BJ 30.19	Black Jacketed PMMA	8,380	4,75	100
Fiberli FOK BJ 30.31	Black Jacketed PMMA	13,68	5,60	100
Fiberli FOK BJ 30.55	Black Jacketed PMMA	24,25	7,12	100
Fiberli FOK BJ 20.63	Black Jacketed PMMA	3,080	3,25	100



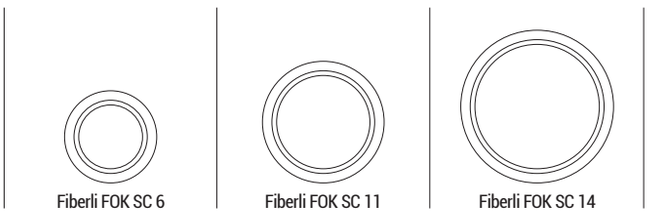
Side Radiant Sheated Cables

Product Code	Instruction	Diameter (mm)	Quantity
Fiberli FOK SG 21	Transparent Jacketed Mitsubishi PMMA	75	21
Fiberli FOK SG 42	Transparent Jacketed Mitsubishi PMMA	75	42
Fiberli FOK SG 84	Transparent Jacketed Mitsubishi PMMA	75	84
Fiberli FOK SG 126	Transparent Jacketed Mitsubishi PMMA	75	126



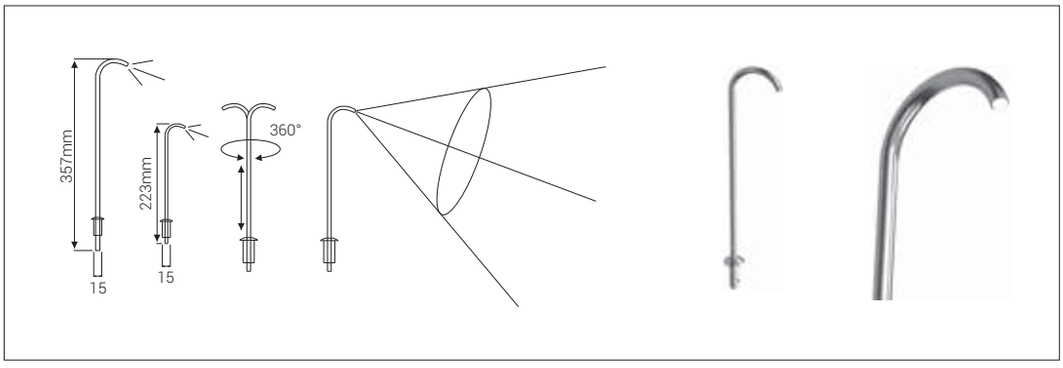
Side Radiant Sheated Cables

Product Code	Instruction	Diameter (mm)	Quantity
Fiberli FOK SC 6	Transparent Jacketed PMMA	6	-
Fiberli FOK SC 11	Transparent Jacketed PMMA	11	-
Fiberli FOK SC 14	Transparent Jacketed PMMA	14	-

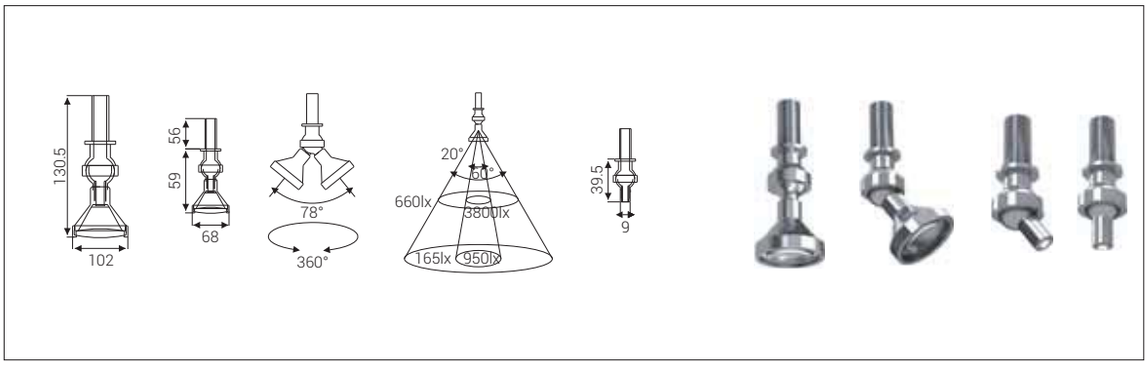


Lenses

L Type Lens



G Type Lens



DK Type Lens