



your light on demand

# FLEXIBLE SIDE EMITTING LIGHT GUIDE

---

AN INNOVATIVE, FLEXIBLE AND THIN PRODUCT  
FIT FOR ALL KIND OF DESIGN / FREEFORM  
REQUESTS



# FLEXIBLE SIDE EMITTING LIGHT GUIDE

WE DESIGN, ENGINEER AND DEVELOP **CUSTOMIZED FLEXIBLE SIDE EMITTING LIGHTING SOLUTIONS** SUITABLE TO MANY DIFFERENT FINAL APPLICATIONS



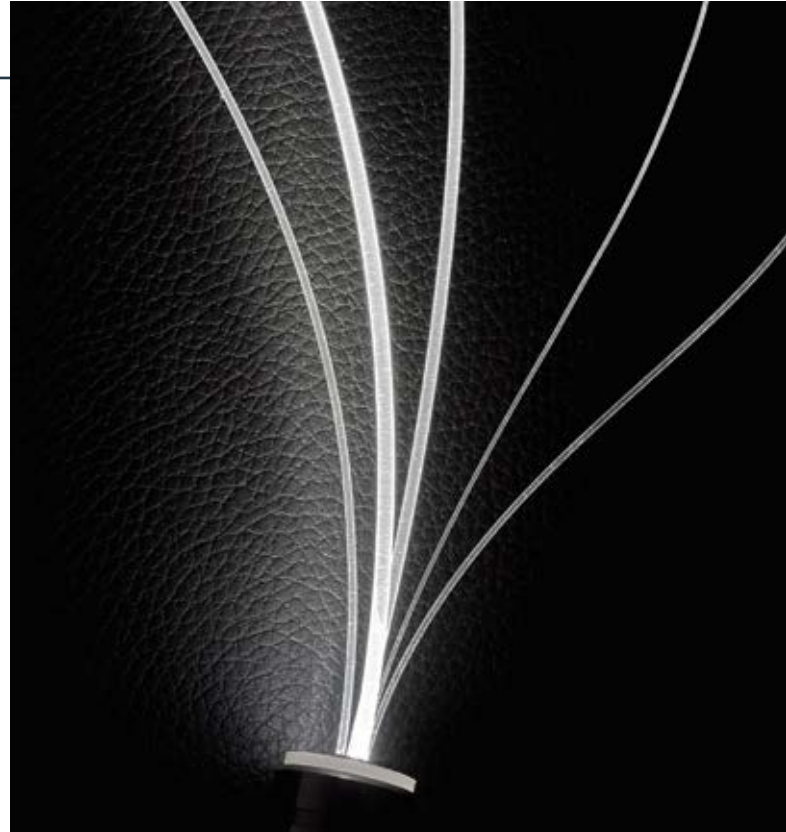
**Household appliances**  
**Heating, ventilation and air conditioning systems**  
**Lighting technique, domotics and control panels**  
**Automotive field**

## MANUFACTURING FLEXIBLE SIDE EMITTING LIGHT GUIDE

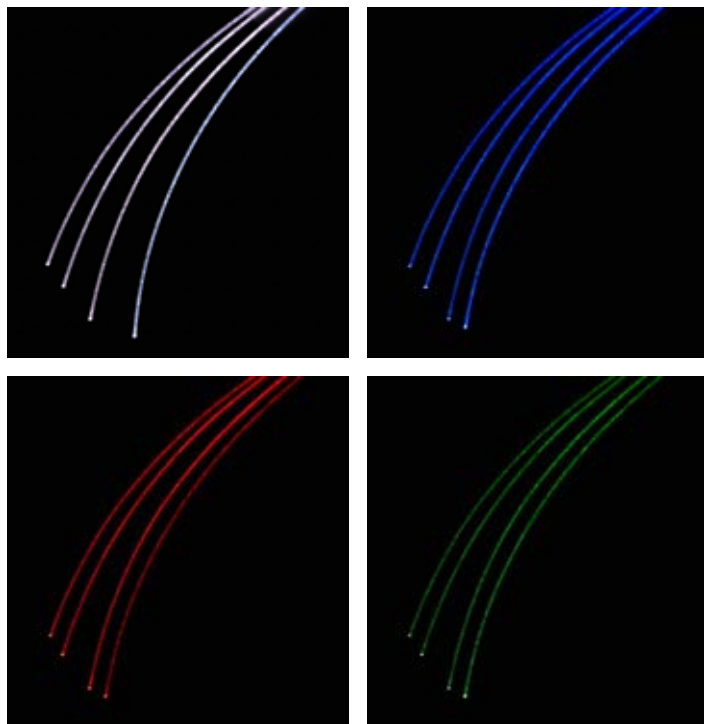
A flexible tube containing a bundle of optical fibres (POF), specifically treated to emit light laterally and uniformly over the full length or in specific areas. **The POF treatment is a unique process which is directly related to the luminous length.** The light guide is available with different cross-section for optimum integration and to comply with the requested bending radius.

## Key features

- ↘ **Homogeneous light output over full length** with one or two sources on both sides
- ↘ **Minimum loss of efficiency**
- ↘ **No hot spot** in tight bent
- ↘ **No visible colour shifting**
- ↘ **No colour change** over time
- ↘ **No luminance change** throughout production
- ↘ **Custom outer diameter, length, flexibility and ferule**, which adapt to your light source
- ↘ Option: light output in specific area only/ dynamic lightning scenarios

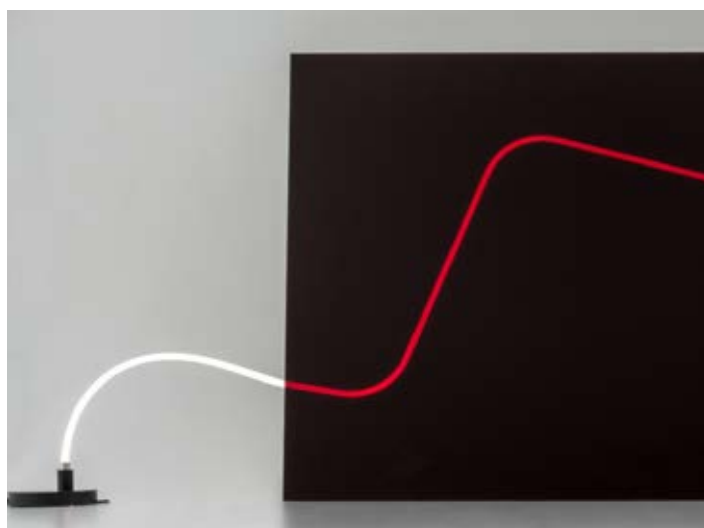
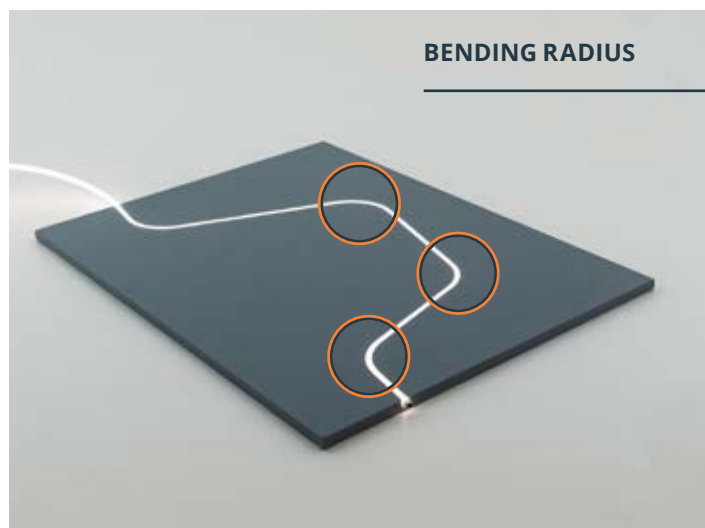
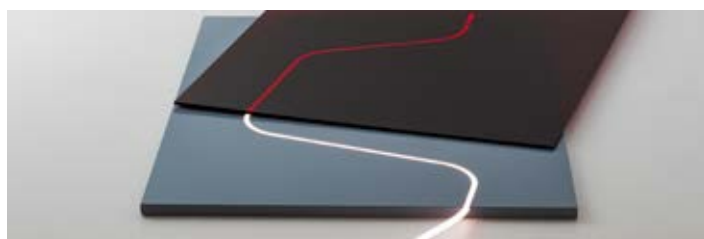


WE DESIGN, PRODUCE AND SUPPLY **HIGH EFFICIENT PCB LIGHT SOURCES** WORKING AT 12VDC OR 12-24V AC/DC **IN DIFFERENT COLORS** (WHITE, BLUE, RED, GREEN, RGB AND RGBW).  
 THE **PLASTIC CASE**, THE **CABLES** (LENGTH AND MATERIAL) AND THE **TERMINALS** CAN BE **MODIFIED** FOLLOWING THE FINAL CLIENT'S REQUEST.



## Specification

<b>POF</b>	Ø 0,5 - 0,75 - 1 - 1,5 - 2 mm PMMA fibres
<b>Protective coating</b>	Various transparent or diffusing materials available
<b>Temperature range</b>	-40° C up to 70° C / 85° C / 105° C
<b>Length</b>	Up to 20.000mm
<b>Standard outer diameter</b>	from 2 mm to 5 mm
<b>Bending radius</b>	Min.20 mm – Depends on POF size and quantities



# Advantages

- ↘ An innovative **technology**
- ↘ **Short development time**
- ↘ Many applications
- ↘ **Custom-made** by simple change of production set-up
- ↘ **Constant quality** throughout production batches
- ↘ **Unique control of light** amount and place where the light comes out
- ↘ **High quality** products

For more information: [commerciale@slim.it](mailto:commerciale@slim.it)

## **S.L.I.M. srl**

Via dei Tigli, 14/16 (Z.I)  
20853 - Biassono (MB) - Italy  
Tel. +39 039 492.115 - Fax. +39 039 491.654

[www.slim.it](http://www.slim.it)

