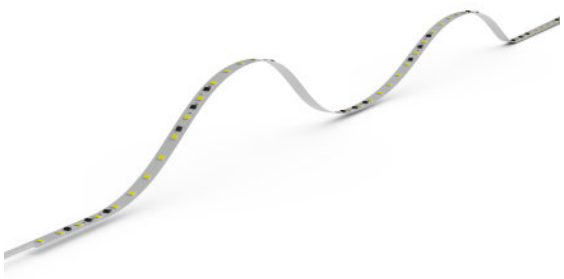
LF500I -G1-827-48-18 L1

LINEARlight FLEX Infinite 48V IP00 | – LED modules for professional and industrial applications



Product family features

- 48V system with longer rells
- Luminous flux: up to 4,000 lm/m
- Dimmable with PWM technology

Product family benefits

- Color uniformity better than 2 SDCM on the entire LED strip and between strips
- High efficency
- High luminous flux
- Large selection of light colors
- Great design freedom thanks to flexibility and cuttability of module
- High-performance silicone for extremely long life and flexibility
- Extraordinary design and high quality materials
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back
- Pre-wired LED strip, simple and quick plug-and-play installation

Technical data

Electrical data

Nominal voltage	48.0 V
Type of current	DC
Nominal wattage per meter	4.0 W
Rated wattage	72.00 W
Input voltage range	45.6…50.4 V
Accidental reverse input voltage protection up to	50.4 V

Photometrical data

Color rendering index Ra	80
Luminous flux per meter	585 lm
Total useful luminous flux	10530 lm
Luminous efficacy	146.3 lm/W
Color temperature	2700 K

Light technical data

LED pitch	12.5 mm
Beam angle	120 °
Starting time	0.0 s
Warm-up time (60 %)	0.00 s

LED module information

Number of LEDs per meter	80
Number of LEDs per smallest unit	8

Dimensions & weight

Length	18000 mm
Length – smallest unit	100.0 mm
Product weight	209.00 g
Cable cross-section, input side	0.5 mm^2
Width	8.00 mm
Height	1.60 mm

Temperatures & operating conditions

Temperature range in operation at Tc point	-30…85 °C [1)]
Ambient temperature range	-30…+55 °C [2)]
Temperature range at storage	-40…+85 °C

1) Exceeding the maximum ratings will reduce expected life time or destroy the LED strip.

2) Rated ambient temp. 25°C/Providing that temperature at Tc point is below max value during operation/Temperature ramping for environmental testing acc. to IEC 62717, 1K/min

Lifespan

Rated lamp life time	60000 h
Nominal lamp life time	60000 h
Number of switching cycles	›30000

Capabilities

Lowest bending radius	30 mm
Self-adhesive	Yes
With connection set	No
With end piece	No

Certificates & standards

Standards	CE/ENEC/VDE/SASO/UL
Type of protection	IP00

Logistical data

Commodity code	85395100000

Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACh)	
Date of Declaration	29-03-2024
Primary Article Identifier	4062172380775
Candidate List Substance 1	Lead
CAS No. of substance 1	7439-92-1
Safe Use Instruction	The identification of the Candidate List substance is sufficient to allow safe use of the article.
Declaration No. in SCIP database	33a9f35f-48b5-4cea-a047-30fbb7654562

Equipment / Accessories

- Simplified connection with optional matching CONNECTsystem
- Quick installation with optional SLIM TRACK System
- Perfectly matched to OPTOTRONIC 24 V electronic control gears

Download Data

Product datasheet

	File
	User instruction LINEARlight FLEX Infinite
	Brochures Light is freedom of design (EN)
	Certificates LINEARlight Flex UL 4511753 061123

Ecodesign regulation information:

- This product is considered to be a "containing product" in the sense of Regulations (EU) 2019/2020 and (EU) 2019/2015.
- Tolerances of the reported values, are according to LED Modules Performance standard IEC/EN 62717.
- In general, the replacement of the contained light sources without permanent damage to the product with the use of common available tools is possible in the final application when they can be dismantled from the installation environment and substituted for the necessary number of light sources restoring its full electrical/mechanical/thermal/optical functionality by means of a professional installer.In the contrary, and limited to the LINEARlight Flex Diffuse, LINEARlight Rigid Finesse, GINO LED Flex Diffuse and LUMINENT Milky product families, the contained light source is an integrated part of the containing product and its removal can only be done by causing a permanent damage to the containing product due to its tight mechanical, electrical, optical, thermal interaction and/or environmental protection with or from the containing product. Therefore, a replacement of the light source with the use of common available tools is not justified.
- Dismantling of light sources from containing products at end of life: Containing products with light sources which are scalable in length can be cut to the length of the contained light source and if applicable mechanically detached from protective and/or optical covers. Containing products shall be separated from building material and/or from other additional mounting accessories by means of a professional installer.Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172380775	LF500I -G1-827-48-18 L1	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm^3	5638.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.