

LINEARlight FLEX Protect

Colored flexible LED strips, cuttable



Areas of application

- Decorative applications
- Wall integration
- Backlighting of complex structures
- Path lighting
- Signage

Product family benefits

- High-performance silicone for extremely long life and flexibility
- Stylish design
- Simple connection thanks to premounted connectors

Product family features

- Flexible and cuttable LED strip
- Type of protection: IP67
- Dimmable
- Fine White
- Highly UV-resistant
- Salt mist proof



Product family datasheet

Technical data

Electrical data

Product description	Input voltage range	Nominal current	Nominal voltage	Nominal wattage	Accidental reverse input voltage protection up to	Type of current
LF05A -B3-P ¹⁾	23...25 V	3 A	24.0 V	72.00 W	25 V	DC
LF05E -R1-P ¹⁾	23...25 V			36.00 W	25 V	DC
LF05E -Y1-P ¹⁾	23...25 V	1.5 A	24.0 V	36.00 W	25 V	DC

¹⁾ See product remark

Photometrical data

Product description	Light color (designation)	Light color LED	Luminous efficacy	Luminous flux	Nominal dominant wavelength
LF05A -B3-P ¹⁾	Blue	Blue	12 lm/W	840 lm	467 nm
LF05E -R1-P ¹⁾	Red	Red		840 lm	625 nm
LF05E -Y1-P ¹⁾	Yellow	Yellow		840 lm	587 nm

¹⁾ See product remark

Light technical data

Product description	Beam angle
LF05A -B3-P ¹⁾	120 °
LF05E -R1-P ¹⁾	120 °
LF05E -Y1-P ¹⁾	120 °

¹⁾ See product remark

LED module information

Product description	Number of LEDs per module
LF05A -B3-P ¹⁾	495
LF05E -R1-P ¹⁾	200
LF05E -Y1-P ¹⁾	200

¹⁾ See product remark

Product family datasheet

Dimensions & weight

Product description	Length	Length – smallest unit	Width	Height	Cable length
LF05A -B3-P ¹⁾	9900 mm ²⁾	100.0 mm	11.0 mm	4.5 mm	500.0 mm
LF05E -R1-P ¹⁾	NaN mm ³⁾	150.0 mm	NaN mm	4.5 mm	
LF05E -Y1-P ¹⁾	6000 mm ³⁾	150.0 mm	11.0 mm	4.5 mm	500.0 mm

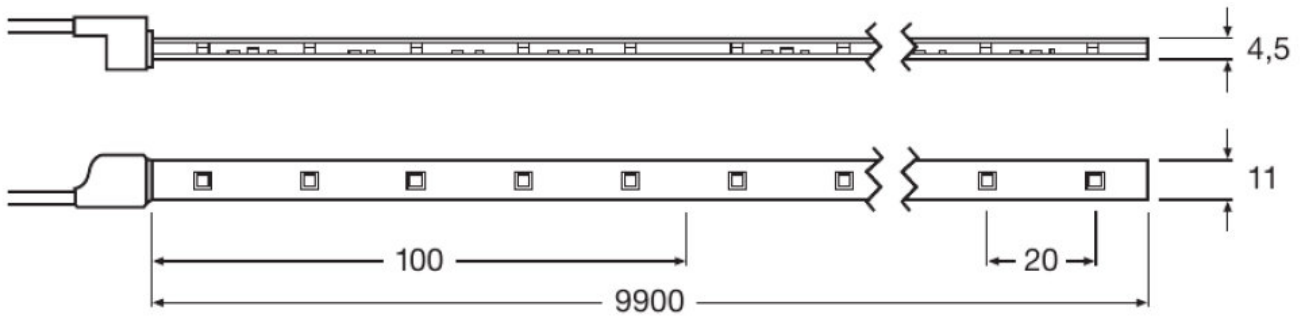
¹⁾ See product remark

²⁾ LED pitch 20 mm

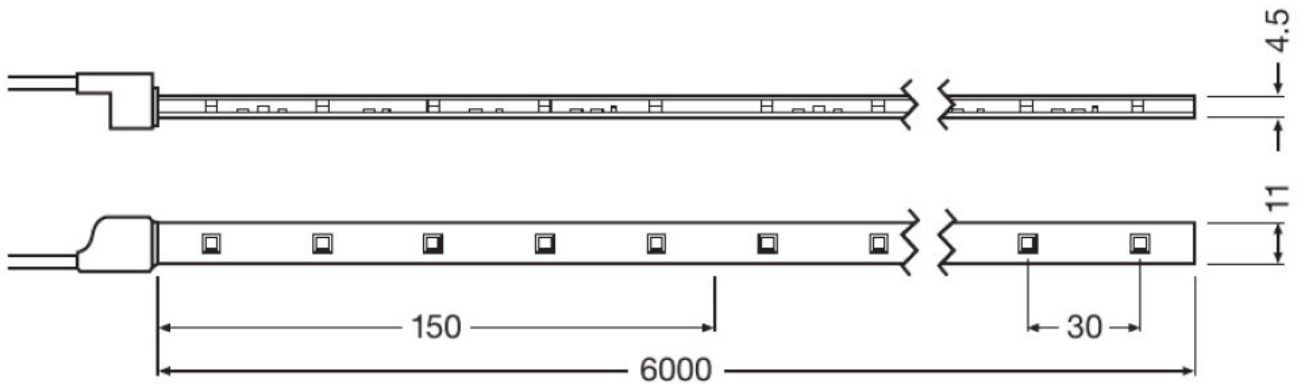
³⁾ LED pitch 30 mm

Product family datasheet

Product line drawing



LF05A -B3-P



LF05E -R1-P, LF05E -Y1-P

Product family datasheet

Colors & materials

Product description	Cover material	Body material
LF05A -B3-P ¹⁾	Silicone	Silicone
LF05E -R1-P ¹⁾	Silicone	Silicone
LF05E -Y1-P ¹⁾	Silicone	Silicone

¹⁾ See product remark

Temperatures & operating conditions

Product description	Temperature range at storage	Temperature range in operation at T _c point
LF05A -B3-P ¹⁾	-40...+85 °C	-30...75 °C ²⁾
LF05E -R1-P ¹⁾	-40...+85 °C	-30...75 °C ²⁾
LF05E -Y1-P ¹⁾	-40...+85 °C	-30...75 °C ²⁾

¹⁾ See product remark

²⁾ At the T_c point

Lifespan

Product description	Lifespan
LF05A -B3-P ¹⁾	50000 h ²⁾
LF05E -R1-P ¹⁾	50000 h ²⁾
LF05E -Y1-P ¹⁾	50000 h ²⁾

¹⁾ See product remark

²⁾ L70/B50 at T_c 40 °C

Capabilities

Product description	Dimmable
LF05A -B3-P ¹⁾	Yes ²⁾
LF05E -R1-P ¹⁾	Yes ²⁾
LF05E -Y1-P ¹⁾	Yes ²⁾

¹⁾ See product remark

²⁾ PWM

Product family datasheet

Certificates & standards

Product description	Type of protection
LF05A -B3-P ¹⁾	IP67
LF05E -R1-P ¹⁾	IP67
LF05E -Y1-P ¹⁾	IP67

¹⁾ See product remark

Logistical data

Product description	Commodity code
LF05A -B3-P ¹⁾	940540399000
LF05E -R1-P ¹⁾	
LF05E -Y1-P ¹⁾	940540399000

¹⁾ See product remark

Product remark

Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information (see www.osram.com/led-systems),/All technical parameters apply to the entire module/In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

Equipment / Accessories

- CONNECTsystem LF-PROTECT
- LINEARlight Track LT

Application advice

For more detailed application information and graphics please see product datasheet.

Sales and Technical Support

Sales and Technical Support www.osram.com







Country specific information

Product description	Product code	METEL code	SEG-No.	STK number	UK Org
LF05A -B3-P	4008321617804	OSRLF05AB3P	-	4031362	-

Product family datasheet

LF05A -B3-P	4008321617804	OSRLF05AB3P	-	4031362	-
LF05E -R1-P	4008321616937	OSRLF05ER1P	-	4031365	-
LF05E -R1-P	4008321616937	OSRLF05ER1P	-	4031365	-
LF05E -Y1-P	4008321616975	OSRLF05EY1P	-	4031366	-
LF05E -Y1-P	4008321616975	OSRLF05EY1P	-	4031366	-

Download Data

File	
	Product Datasheet 335842_LINEARlight Flex Protect LF05A-P (EN)
	Declarations of conformity 466011_EC-DoC LF05A-E-P
	Eulumdat 327873_LINEARlight Flex Protect LF05A-B3-P
	Product Datasheet 335840_LINEARlight Flex Protect LF05E-P (EN)
	Eulumdat 327791_LINEARlight FLEX PROTECT LF05E-R1-P
	Eulumdat 327796_LINEARlight FLEX PROTECT LF05E-Y1-P

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321617804	LF05A -B3-P	Shipping carton box 8	366 mm x 380 mm x 286 mm	39.78 dm ³	8971.00 g
4008321616937	LF05E -R1-P	Shipping carton box 8	366 mm x 366 mm x 286 mm	38.31 dm ³	8150.00 g
4008321616975	LF05E -Y1-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8150.00 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.

Accessories Optional

Product description	Accessory name	Accessory code
LF05A -B3-P	LF -2PIN Protect	▶ 4062172016513
LF05A -B3-P	LF -2CONN Protect	▶ 4062172016476
LF05A -B3-P	LF -ENDCAP Protect	▶ 4062172016438

Product family datasheet

LF05A -B3-P	LF-CLIP -FIXTURE PROTECT	▶ 4008321644749
LF05A -B3-P	LF-LTS -2100	▶ 4008321978981
LF05E -R1-P	LF -2PIN Protect	▶ 4062172016513
LF05E -R1-P	LF -2CONN Protect	▶ 4062172016476
LF05E -R1-P	LF -ENDCAP Protect	▶ 4062172016438
LF05E -R1-P	LF-CLIP -FIXTURE PROTECT	▶ 4008321644749
LF05E -R1-P	LF-LTS -2100	▶ 4008321978981
LF05E -Y1-P	LF -2PIN Protect	▶ 4062172016513
LF05E -Y1-P	LF -2CONN Protect	▶ 4062172016476
LF05E -Y1-P	LF -ENDCAP Protect	▶ 4062172016438
LF05E -Y1-P	LF-CLIP -FIXTURE PROTECT	▶ 4008321644749
LF05E -Y1-P	LF-LTS -2100	▶ 4008321978981

Disclaimer

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