

LINEARlight Colormix Flex Protect

LED modules for professional and industrial applications



Areas of application

- Facade accent lighting
- Effect lighting in architecture
- Edge coupling
- Path lighting
- Suitable for outdoor use

Product benefits

- Uniform color changing
- Great design freedom thanks to flexibility and cuttability of module
- High-performance silicone for extremely long life and flexibility
- Simple connection thanks to premounted connectors
- Extraordinary design and high quality materials
- Toolless connection with the optional CONNECTsystem
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back

Product features

- Flexible and cuttable LED strip with inline multichip RGB LEDs
- Type of protection: IP67
- Dimmable with PWM technology
- Salt mist proof



Product family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Type of current	Nominal wattage per meter	Rated wattage	Input voltage range	Reverse Voltage
LF05CE -RGB1-P ¹⁾	24.0 V	DC	6.5 W	39.00 W	23...25 V	25 V
LF05CA -RGB3-P ¹⁾	24.0 V	DC	18.0 W	72.00 W	23...25 V	25 V
LFP200C -G3-RGB-06 ¹⁾	24.0 V	DC	6.5 W	39.00 W	23...25 V	25 V
Product description	Nominal wattage per meter - RGB					
LF05CE -RGB1-P ¹⁾						
LF05CA -RGB3-P ¹⁾	7.2 / 5.4 / 4.8 W ²⁾					
LFP200C -G3-RGB-06 ¹⁾	7.2 / 5.4 / 4.8 W ²⁾					

¹⁾ See product remark

²⁾ R/G/B

Photometrical data

Product description	Light color LED	Nominal dominant wavelength	Luminous flux per meter	Luminous efficacy	Light color (designation)
LF05CE -RGB1-P ¹⁾	RGB	625 / 525 / 465 nm	210 lm	32 lm/W	Red/Green/Blue
LF05CA -RGB3-P ¹⁾	RGB	625 / 525 / 465 nm	435 lm	24 lm/W	Red/Green/Blue
LFP200C -G3-RGB-06 ¹⁾	RGB	625 / 525 / 465 nm	209 lm	32 lm/W	Red/Green/Blue

¹⁾ See product remark

Light technical data

Product description	LED pitch	Beam angle
LF05CE -RGB1-P ¹⁾	30.0 mm	120 °
LF05CA -RGB3-P ¹⁾	20.0 mm	120 °
LFP200C -G3-RGB-06 ¹⁾	30.0 mm	120 °

¹⁾ See product remark

LED module information

Product description	Number of LEDs per meter	Number of LEDs per smallest unit
LF05CE -RGB1-P ¹⁾	33	5
LF05CA -RGB3-P ¹⁾	50	5
LFP200C -G3-RGB-06 ¹⁾	33	5

¹⁾ See product remark

Dimensions & weight

Product description	Length	Length – smallest unit	Width	Height	Cable length
LF05CE -RGB1-P ¹⁾	6000 mm ²⁾	150.0 mm	11.0 mm	4.5 mm	500.0 mm
LF05CA -RGB3-P ¹⁾	4000 mm ³⁾	100.0 mm	11.0 mm	4.5 mm	500.0 mm
LFP200C -G3-RGB-06 ¹⁾	6000 mm ²⁾	150.0 mm	11.0 mm	4.5 mm	500.0 mm

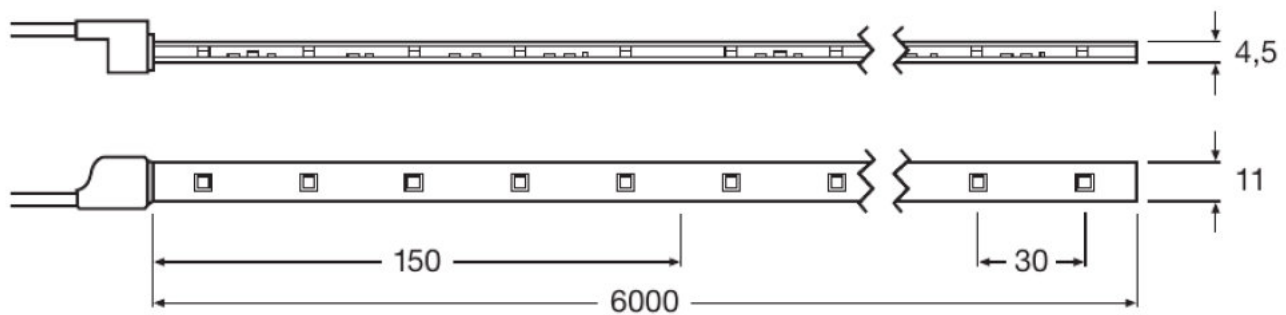
Product description	Product weight
LF05CE -RGB1-P ¹⁾	500.00 g
LF05CA -RGB3-P ¹⁾	241.00 g
LFP200C -G3-RGB-06 ¹⁾	500.00 g

¹⁾ See product remark

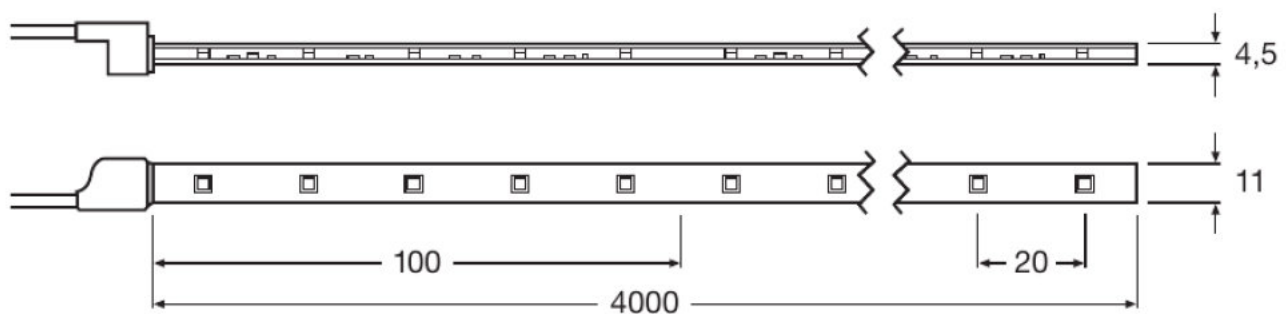
²⁾ LED pitch 30 mm

³⁾ LED pitch 20 mm

Product line drawing



LF05CE -RGB1-P, LFP200C -G3-RGB-06



LF05CA -RGB3-P

Product family datasheet

Temperatures & operating conditions

Product description	Performance temp. acc. to IEC 62717	Temperature range in operation at T _c point	Ambient temperature range
LF05CE -RGB1-P ¹⁾	35 °C	-20...70 °C ²⁾	-20...+50 °C ³⁾
LF05CA -RGB3-P ¹⁾	40 °C	-30...75 °C ²⁾	-20...+50 °C ³⁾
LFP200C -G3-RGB-06 ¹⁾	35 °C	-20...70 °C ⁴⁾	-20...+50 °C ³⁾

¹⁾ See product remark

²⁾ At the T_c point

³⁾ Rated ambient temp. 25°C/Providing that temperature at T_c point is below max value during operation/Temperature ramping for environmental testing acc. to IEC 62717, 1K/min

⁴⁾ Exceeding the maximum ratings will reduce expected life time or destroy the LED strip.

Lifespan

Product description	Rated lamp life time	Nominal lamp life time
LF05CE -RGB1-P ¹⁾	50000 h	50000 h
LF05CA -RGB3-P ¹⁾	50000 h	50000 h
LFP200C -G3-RGB-06 ¹⁾	50000 h	50000 h

¹⁾ See product remark

Capabilities

Product description	Dimmable	Lowest bending radius	Self-adhesive
LF05CE -RGB1-P ¹⁾	Yes ²⁾	50 mm	Yes
LF05CA -RGB3-P ¹⁾	Yes ²⁾	50 mm	Yes
LFP200C -G3-RGB-06 ¹⁾	Yes	50 mm	Yes

Product description	With connection set	With end piece
LF05CE -RGB1-P ¹⁾	Yes	No
LF05CA -RGB3-P ¹⁾	Yes	Yes
LFP200C -G3-RGB-06 ¹⁾	Yes	No

¹⁾ See product remark

²⁾ PWM

Certificates & standards

Product description	Standards	Type of protection	Energy consumption
LF05CE -RGB1-P ¹⁾	CE/EAC/UL Recognized component according UL 8750	IP67	
LF05CA -RGB3-P ¹⁾	CE/EAC/UL Recognized component according UL 8750	IP67	80 kWh/1000h
LFP200C -G3-RGB-06 ¹⁾	CE/EAC/UL Recognized component according UL 8750	IP67	43 kWh/1000h

¹⁾ See product remark

Product family datasheet

Logistical data

Product description	Temperature range at storage
LF05CE -RGB1-P ¹⁾	-40...85 °C
LF05CA -RGB3-P ¹⁾	-40...85 °C
LFP200C -G3-RGB-06 ¹⁾	-40...85 °C

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 the 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

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

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
LF05CE -RGB1-P	4008321977182	-	-	4031374	-
LF05CA -RGB3-P	4008321977205	OSRLF05CARGB3PR	-	4031373	-

Download Data

File

Product family datasheet

	Product Datasheet 335837_LINEARlight Colormix Flex Protect LF05C-P (EN)
	Brochures Light is freedom of design (EN)
	Declarations of conformity Manufacturer declaration LF05CACE-P
	Declarations of conformity 485801_EC-DoC LF05CA-CE-P
	Eulumdat 327872_LINEARlight Colormix Flex Protect LF05CE-RGB-P
	Brochures 602876_LINEARlight Colormix Flex and LINEARlight Colormix Flex Protect - Quick installation guide
	Eulumdat 327871_LINEARlight Colormix Flex Protect LF05CA-RGB3-P
	Certificates Manufacturers Declaration LFP200C
	Certificates UL Certificate
	Declarations of conformity Declaration of conformity LFP200C G3

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321977182	LF05CE -RGB1-P	Shipping carton box 8	366 mm x 369 mm x 291 mm	39.30 dm ³	6733.50 g
4008321977205	LF05CA -RGB3-P	Shipping carton box 8	366 mm x 286 mm x 365 mm	38.21 dm ³	6078.00 g
4052899501973	LFP200C -G3-RGB-06	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8218.00 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
LF05CE -RGB1-P	LF -4PIN Protect	▶ 4008321977076
LF05CE -RGB1-P	LF -4CONN Protect	▶ 4008321977090
LF05CE -RGB1-P	LF -ENDCAP Protect	▶ 4008321977106
LF05CE -RGB1-P	LF-CLIP -FIXTURE PROTECT	▶ 4008321644749
LF05CE -RGB1-P	LF-LTS -2100	▶ 4008321978981
LF05CA -RGB3-P	LF -4PIN Protect	▶ 4008321977076

Product family datasheet

LF05CA -RGB3-P	LF -4CONN Protect	4008321977090
LF05CA -RGB3-P	LF -ENDCAP Protect	▶ 4008321977106
LF05CA -RGB3-P	LF-CLIP -FIXTURE PROTECT	▶ 4008321644749
LF05CA -RGB3-P	LF-LTS -2100	▶ 4008321978981

References / Links

System configurator tool is available online at <https://flex.osram.info/en/flex-configurator>

Disclaimer

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