

## 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 splittable LED strip with inline multichip RGB LEDs
- Type of protection: IP67
- Dimmable
- Salt mist proof
- Highly UV-resistant



## Product family datasheet

### Technical data

#### Electrical data

Product description	Nominal voltage	Nominal current	Rated wattage	Nominal wattage per meter	Reverse Voltage	Type of current
LF05CE -RGB1-P <sup>1)</sup>	24.0 V	1.6 A	39.00 W	6.5 W	25 V	DC
LF05CA -RGB3-P <sup>1)</sup>	24.0 V	3 A	72.00 W	18.0 W	25 V	DC
LFP200C -G3-RGB-06 <sup>1)</sup>	24.0 V	1.63 A	39.00 W	6.5 W	25 V	DC

Product description	Input voltage range
LF05CE -RGB1-P <sup>1)</sup>	23...25 V
LF05CA -RGB3-P <sup>1)</sup>	23...25 V
LFP200C -G3-RGB-06 <sup>1)</sup>	23...25 V

<sup>1)</sup> 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](http://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

#### Photometrical data

Product description	Light color (designation)	Nominal dominant wavelength	Light color LED	Luminous flux per meter	Luminous flux	Luminous efficacy
LF05CE -RGB1-P <sup>1)</sup>	Red/Green/Blue	625 / 525 / 465 nm	RGB	210 lm	2090 lm	32 lm/W
LF05CA -RGB3-P <sup>1)</sup>	Red/Green/Blue	625 / 525 / 465 nm	RGB	435 lm	1740 lm	
LFP200C -G3-RGB-06 <sup>1)</sup>	Red/Green/Blue	625 / 525 / 465 nm	RGB	209 lm	1254 lm	32 lm/W

Product description	Color rendering index Ra
LF05CE -RGB1-P <sup>1)</sup>	
LF05CA -RGB3-P <sup>1)</sup>	
LFP200C -G3-RGB-06 <sup>1)</sup>	-

<sup>1)</sup> 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](http://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

## Product family datasheet

### Light technical data

Product description	Beam angle
LF05CE -RGB1-P <sup>1)</sup>	120 °
LF05CA -RGB3-P <sup>1)</sup>	120 °
LFP200C -G3-RGB-06 <sup>1)</sup>	120 °

<sup>1)</sup> 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](http://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

### LED module information

Product description	Number of LEDs per module	Number of LEDs per meter
LF05CE -RGB1-P <sup>1)</sup>	200	33
LF05CA -RGB3-P <sup>1)</sup>	200	50
LFP200C -G3-RGB-06 <sup>1)</sup>	200	33

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### Dimensions & weight

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

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

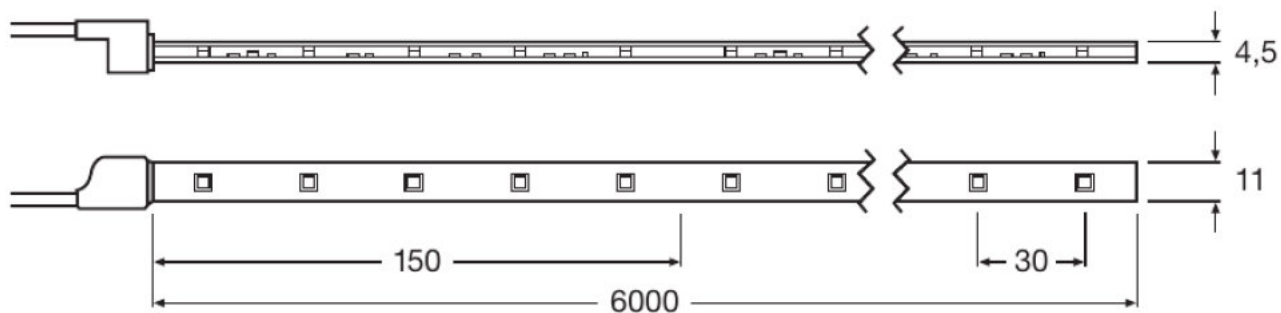
<sup>1)</sup> Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see [www.osram.com/led-systems](http://www.osram.com/led-systems)/All the technical parameters apply to the entire 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

<sup>2)</sup> LED pitch 30 mm

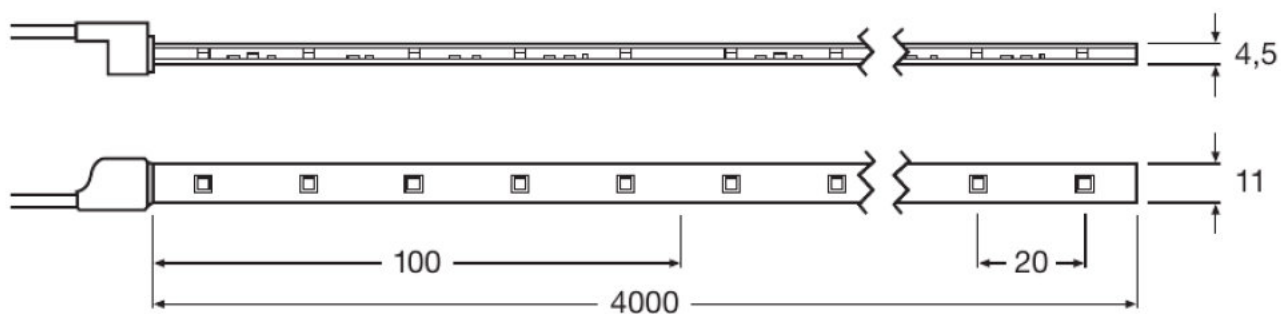
<sup>3)</sup> LED pitch 20 mm

## Product family datasheet

### Product line drawing



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



LF05CA -RGB3-P

## Product family datasheet

### Temperatures & operating conditions

Product description	Temperature range in operation
LF05CE -RGB1-P <sup>1)</sup>	-30...75 °C <sup>2)</sup>
LF05CA -RGB3-P <sup>1)</sup>	-30...75 °C <sup>2)</sup>
LFP200C -G3-RGB-06 <sup>1)</sup>	-20...70 °C

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<sup>2)</sup> At the T<sub>c</sub> point

### Lifespan

Product description	Lifespan
LF05CE -RGB1-P <sup>1)</sup>	50000 h
LF05CA -RGB3-P <sup>1)</sup>	50000 h
LFP200C -G3-RGB-06 <sup>1)</sup>	50000 h

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### Capabilities

Product description	Dimmable
LF05CE -RGB1-P <sup>1)</sup>	Yes <sup>2)</sup>
LF05CA -RGB3-P <sup>1)</sup>	Yes <sup>2)</sup>
LFP200C -G3-RGB-06 <sup>1)</sup>	Yes

<sup>1)</sup> 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/](http://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

<sup>2)</sup> PWM

### Certificates & standards

Product description	Type of protection	Standards
LF05CE -RGB1-P <sup>1)</sup>	IP67	Acc. to EN 60598-1
LF05CA -RGB3-P <sup>1)</sup>	IP67	Acc. to EN 60598-1
LFP200C -G3-RGB-06 <sup>1)</sup>	IP67	CE/UL/ENEC

<sup>1)</sup> 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/](http://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

## Product family datasheet

### Logistical data

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

<sup>1)</sup> 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/](http://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](http://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 Datasheet 335837_LINEARlight Colormix Flex Protect LF05C-P (EN)
 Brochures Light is freedom of design (EN)
 Declarations of conformity Manufacturer declaration LF05CACE-P

## Product family datasheet

	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 <sup>3</sup>	6733.50 g
4008321977205	LF05CA -RGB3-P	Shipping carton box 8	366 mm x 286 mm x 365 mm	38.21 dm <sup>3</sup>	6078.00 g
4052899501973	LFP200C -G3-RGB-06	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm <sup>3</sup>	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	LINEARlight Colormix Flex Protect, -4PIN Protect	▶ 4008321977120
LF05CE -RGB1-P	LINEARlight Colormix Flex Protect, -4CONN Protect	▶ 4008321977144
LF05CE -RGB1-P	LINEARlight FLEX Protect, -ENDCAP Protect	▶ 4008321977151
LF05CE -RGB1-P	LINEARlight FLEX Protect, -FIXTURE PROTECT	▶ 4008321644756
LF05CE -RGB1-P	LINEARlight FLEX, -2100	▶ 4008321978998
LF05CA -RGB3-P	LINEARlight Colormix Flex Protect, -4PIN Protect	▶ 4008321977120
LF05CA -RGB3-P	LINEARlight Colormix Flex Protect, -4CONN Protect	▶ 4008321977144
LF05CA -RGB3-P	LINEARlight FLEX Protect, -ENDCAP Protect	▶ 4008321977151
LF05CA -RGB3-P	LINEARlight FLEX Protect, -FIXTURE PROTECT	▶ 4008321644756
LF05CA -RGB3-P	LINEARlight FLEX, -2100	▶ 4008321978998

## Product family datasheet

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### References / Links

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

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### Disclaimer

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