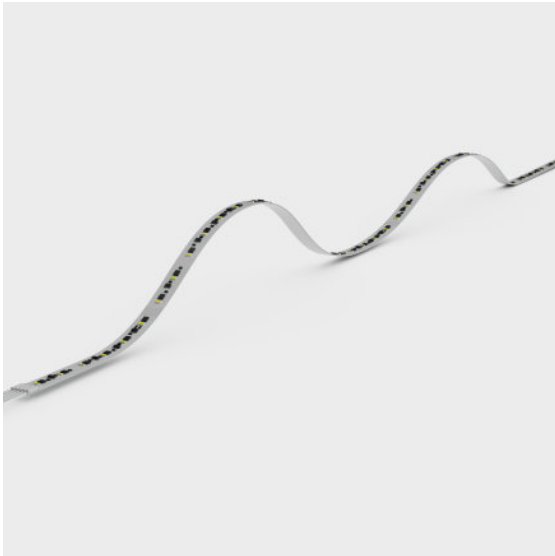


LINEARlight FLEX Colormix IP00

Linear LED modules for flexible and individualized lighting solutions



Product family features

- Flexible and cuttable LED strip with inline multichip RGB LEDs
- RGBW all types: full single bin on each color and white

Product family benefits

- Uniform color changing
- Great design freedom thanks to flexibility and cuttability of module
- Simple mounting and connection
- Type of protection: IP00
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back

Areas of application

- Effect lighting in architecture
- Injection of light into displays and low-profile light guides
- Dynamic effects in public zones



Product family datasheet

Technical data

Product description	Electrical data					Photometrical data	
	Nominal voltage	Type of current	Rated wattage	Input voltage range	Accidental reverse input voltage protection up to	Luminous flux per meter	Light color LED
LF1300RGBW -G1-922-05 L2	24.0 V	DC	100.00 W	23...25 V	25 V	1160 lm	RGB, white
LF1300RGBW -G1-927-05 L2	24.0 V	DC	94.90 W	23...25 V	25 V	1205 lm	RGB, white
LF1300RGBW -G1-930-05 L2	24.0 V	DC	94.90 W	23...25 V	25 V	1217 lm	RGB, white
LF1300RGBW -G1-940-05 L2	24.0 V	DC	94.90 W	23...25 V	25 V	1275 lm	RGB, white
LF1300RGBW -G1-965-05 L2	24.0 V	DC	94.90 W	23...25 V	25 V	1240 lm	RGB, white
LF600RGB -G5-06-L1	24.0 V	DC	98.60 W	23...25 V	25 V	575 lm	Red / Green / Blue

Product description	Color rendering index Ra	Luminous efficacy	Light color (designation)	LED module information	Dimensions & weight	
				Number of LEDs per smallest unit	Length	Length – smallest unit
LF1300RGBW -G1-922-05 L2	90	78 lm/W	2200 K	12	5100 mm	100.0 mm
LF1300RGBW -G1-927-05 L2	90	94 lm/W	2700 K	12	5100 mm	100.0 mm
LF1300RGBW -G1-930-05 L2	90	95 lm/W	3000 K	12	5100 mm	100.0 mm
LF1300RGBW -G1-940-05 L2	90	103 lm/W	4000 K	12	5100 mm	100.0 mm
LF1300RGBW -G1-965-05 L2	90	99 lm/W	6500 K	12	5100 mm	100.0 mm
LF600RGB -G5-06-L1		35 lm/W		5	6000 mm	100.0 mm

Product description	Width	Height	Product weight	Temperatures & operating conditions	
				Temperature range in operation at Tc point	Temperature range at storage
LF1300RGBW -G1-922-05 L2	10.0 mm	1.70 mm	91.00 g	-20...85 °C ¹⁾	-40...85 °C
LF1300RGBW -G1-927-05 L2	10.0 mm	1.70 mm	91.00 g	-20...85 °C ¹⁾	-40...85 °C
LF1300RGBW -G1-930-05 L2	10.0 mm	1.70 mm	91.00 g	-20...85 °C ¹⁾	-40...85 °C
LF1300RGBW -G1-940-05 L2	10.0 mm	1.70 mm	91.00 g	-20...85 °C ¹⁾	-40...85 °C
LF1300RGBW -G1-965-05 L2	10.0 mm	1.70 mm	91.00 g	-20...85 °C ¹⁾	-40...85 °C
LF600RGB -G5-06-L1	8.00 mm	2.20 mm	65.00 g	-35...75 °C ¹⁾	-40...+85 °C

Product description	Additional product data	Certificates & standards		Logistical data
	ID of contained light source	Standards	Energy efficiency class of the contained light source	Commodity code
LF1300RGBW -G1-922-05 L2	LS_TRV_286472	CE/ENEC/EAC/UL	G	85395100000
LF1300RGBW -G1-927-05 L2	LS_TRV_286473	CE/ENEC/EAC/UL	F	85395100000

Product family datasheet

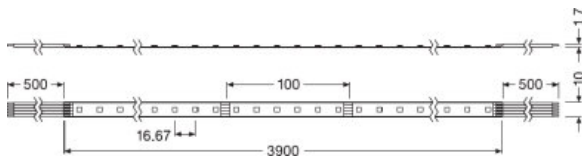
	Additional product data	Certificates & standards		Logistical data
Product description	ID of contained light source	Standards	Energy efficiency class of the contained light source	Commodity code
LF1300RGBW -G1-930-05 L2	LS_TRV_286474	CE/ENEC/EAC/UL	F	85395100000
LF1300RGBW -G1-940-05 L2	LS_TRV_286475	CE/ENEC/EAC/UL	F	85395100000
LF1300RGBW -G1-965-05 L2	LS_TRV_286476	CE/ENEC/EAC/UL	F	85395100000
LF600RGB -G5-06-L1	LS_TRV_286403		G	85395100000

	Environmental information Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)			
Product description	Date of Declaration	Primary Article Identifier	Declaration No. in SCIP database	Candidate List Substance 1
LF1300RGBW -G1-922-05 L2	16-11-2023	4062172283724	In work	
LF1300RGBW -G1-927-05 L2	16-11-2023	4062172283748	In work	
LF1300RGBW -G1-930-05 L2	16-11-2023	4062172283762	In work	
LF1300RGBW -G1-940-05 L2	16-11-2023	4062172283786	In work	
LF1300RGBW -G1-965-05 L2	16-11-2023	4062172283809	In work	
LF600RGB -G5-06-L1	16-11-2023	4062172283281	2e975207-dd53-4dfc-8c26-4c576c3d3149	Lead

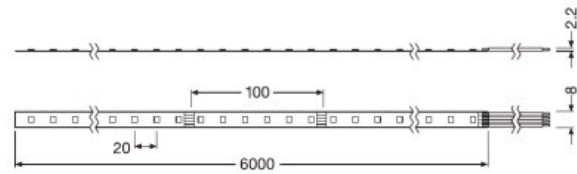
Product description	CAS No. of substance 1	Safe Use Instruction
LF1300RGBW -G1-922-05 L2		
LF1300RGBW -G1-927-05 L2		
LF1300RGBW -G1-930-05 L2		
LF1300RGBW -G1-940-05 L2		
LF1300RGBW -G1-965-05 L2		
LF600RGB -G5-06-L1	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.

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

Product family datasheet



LF1300RGBW



LF600RGB-G5-06 L1 Line Drawing

Equipment / Accessories

- Simplified connection with optional matching CONNECTsystem for RGB
- 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.

Additional product information

- Some LED modules are equipped with a self-adhesive tape for attaching the LED module to suitable materials, such as aluminum profiles, which must be clean and free of oil or silicone coatings, as well as other dirt/dust particles. The adhesive tape is intended for single use and if removed may damage the material to which it is stuck and the LED module itself, which must then be scrapped. Use the adhesive tape when the installation material temperature is in the 18 °C...35 °C range. Complete adhesion takes up to 72 h.
- LED modules are designed for static installations in accordance with IPC 6013C – Use A. Take material vibrations, repetitive torsion, and elongation/compression into account.
- If the operating environment covers a broad temperature range (e.g. outdoor applications) and the operating length is longer than 2 m, the use of adequate mounting surfaces is required. The use of an additional thicker adhesive tape between LED module and mounting surface is also recommended in order to absorb the stress of any mismatch in expansion. Assure enough space for module expansion with increasing temperature.
- The manufacturer is not responsible for damage due to chemical corrosion. The user must provide suitable protection against corrosive agents such as moisture and condensation and any other harmful elements/compounds. Make certain to avoid corrosive atmospheres. According to the current state of LED technology, hydrogen sulfide (H₂S) causes accelerated corrosion which leads to shortened lifetime or premature failure. Sources of H₂S may be rubber, foam rubber, soft-foam tapes, rubber-based sealing, natural sources (e.g. sulfur springs), etc. To avoid H₂S from sulfur-vulcanized rubber use silicon-based materials or peroxide-crosslinked rubber instead. Follow the recommendations in the material datasheet of the rubber supplier.
- IP00 LED modules, as manufactured, have no conformal coating and therefore offer no inherent protection against corrosion. Conformal coating treatment is possible, however materials must be selected properly in order to avoid product damage or impaired performance; the user must also completely seal the cut parts (ends/edges).
- For applications involving exposure to humidity and dust the module must be protected by a fixture or housing with a suitable IP protection class.
- Consult OSRAM Technical Service for further advice.
- Only a qualified electrician may install the module.
- Handle with care and ensure that there is no mechanical product damage, including damage to invisible internal electronics parts.
- Exceeding maximum operating and storage temperature ratings can reduce the expected lifetime or even destroy the LED module. The temperature of the LED module must be measured at the T_c-point in accordance with EN 60598-1 under steady-state conditions, considering the worst case; drive all channels at 100 % power. Refer to the product drawing for the exact location of the T_c-point.
- Exceeding the maximum ratings for the operating voltage causes hazardous overload and will likely destroy the LED module.
- Installation of LED modules and connection to the power supply must comply with all applicable electrical and safety standards.
- Observe correct polarity and wiring diagrams! Incorrect polarity or wrong wiring can cause unpredictable permanent damage or even failure of the product.
- Never exceed the maximum operable length, including daisy-chaining connections.
- Always ensure electrical isolation between the LED module and the mounting surface, especially in the vicinity of connections or cut ends.
- IP00 LED modules are ESD-sensitive; take adequate precautions during installation and operation of the products.
- Use only SELV LED drivers in accordance with applicable lighting standards and LED module ratings. In order to safely operate OSRAM LED modules it is necessary to supply them with an electronically stabilized power supply providing protection against short circuits, overload and overheating. To simplify the approval process of the luminaire/installation, the electronic power supplies control gear for LED modules must bear the CE and ENEC marking. In Europe the Declarations of Conformity must include at least the following standards: EN 61347-2-13, EN 55015, EN 61547 and EN 61000-3-2. ENEC certification will be based on EN 61347-2-13 and EN 62384. OSRAM OPTOTRONIC LED drivers comply with all relevant standards and guarantee safe operation; see the relevant brochure for more detailed information about OSRAM OPTOTRONIC.
- Avoid installations in rural and urban areas with high industrial activity and heavy traffic (higher than class 4C1 according IEC 60721-3) and as well as installation in spa, areas with chlorine atmosphere, direct exposure to blown sand.

Sales and Technical Support

Product family datasheet

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction LINEARlight Flex
	Product Datasheet LINEARlight FLEX RGB and RGBW_Specification Sheet (EN)
	Brochures Light is freedom of design (EN)
	Certificates VDE ENEC CERTIFICATE 40052516 160823
	Declarations of conformity LF RGBW G1 CE 3583891 280623
	Declarations of conformity Manufacturers Declaration of Conformity
	Eulumdat LF1300RGBW G1 922 05 LDT 151123
	Eulumdat LF1300RGBW G1 9xx 05 RGB LDT 151123
	Eulumdat LF1300RGBW G1 927 05 LDT 151123
	Eulumdat LF1300RGBW G1 930 05 LDT 151123
	Eulumdat LF1300RGBW G1 940 05 LDT 151123
	Eulumdat LF1300RGBW G1 965 05 LDT 151123
	User instruction LINEARlight Colormix Flex
	Certificates LINEARlight Flex DP UL 4413809 200622
	Eulumdat LF600RGB G5 06 LDT 151123

Product family datasheet

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.
- 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
4062172283724	LF1300RGBW -G1-922-05 L2	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1847.00 g
4062172283748	LF1300RGBW -G1-927-05 L2	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1847.00 g
4062172283762	LF1300RGBW -G1-930-05 L2	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1847.00 g
4062172283786	LF1300RGBW -G1-940-05 L2	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1847.00 g
4062172283809	LF1300RGBW -G1-965-05 L2	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1847.00 g
4062172283281	LF600RGB -G5-06-L1	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1453.00 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
LF1300RGBW -G1-922-05 L2	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
LF1300RGBW -G1-922-05 L2	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
LF1300RGBW -G1-922-05 L2	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
LF1300RGBW -G1-922-05 L2	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
LF1300RGBW -G1-922-05 L2	FX-QMS-G1 -TU16H12-300	▶ 4052899448964

Product family datasheet

LF1300RGBW -G1-922-05 L2	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
LF1300RGBW -G1-927-05 L2	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
LF1300RGBW -G1-927-05 L2	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
LF1300RGBW -G1-927-05 L2	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
LF1300RGBW -G1-927-05 L2	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
LF1300RGBW -G1-927-05 L2	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
LF1300RGBW -G1-927-05 L2	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
LF1300RGBW -G1-930-05 L2	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
LF1300RGBW -G1-930-05 L2	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
LF1300RGBW -G1-930-05 L2	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
LF1300RGBW -G1-930-05 L2	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
LF1300RGBW -G1-930-05 L2	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
LF1300RGBW -G1-930-05 L2	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
LF1300RGBW -G1-940-05 L2	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
LF1300RGBW -G1-940-05 L2	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
LF1300RGBW -G1-940-05 L2	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
LF1300RGBW -G1-940-05 L2	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
LF1300RGBW -G1-940-05 L2	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
LF1300RGBW -G1-940-05 L2	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
LF1300RGBW -G1-965-05 L2	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
LF1300RGBW -G1-965-05 L2	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
LF1300RGBW -G1-965-05 L2	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
LF1300RGBW -G1-965-05 L2	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
LF1300RGBW -G1-965-05 L2	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
LF1300RGBW -G1-965-05 L2	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
LF600RGB -G5-06-L1	CORNER-FLEX -4P-003 KIT 10PCS	▶ 4062172179638
LF600RGB -G5-06-L1	CORNER-FLEX -4P-015 KIT 10PCS	▶ 4062172179676
LF600RGB -G5-06-L1	CONN-FLEX -4P-050 KIT 10PCS	▶ 4062172179744
LF600RGB -G5-06-L1	CONN-FLEX -4P-200 KIT 10PCS	▶ 4062172179768
LF600RGB -G5-06-L1	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
LF600RGB -G5-06-L1	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
LF600RGB -G5-06-L1	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
LF600RGB -G5-06-L1	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
LF600RGB -G5-06-L1	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
LF600RGB -G5-06-L1	FX -SC08-G2-CT4PJ	▶ 4052899464858
LF600RGB -G5-06-L1	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046

Disclaimer

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