

MERAKI family introduces flexible LED strips RGB MERAKI FLEX CV RGB 120. Module's colour reproduction consistency and LEDs distance in a relation of 120 LED/m makes it an outstanding product for indirect architectural lighting, as pubs, restaurants or areas where environmental colours play a central role. They are designed to be feed at constant current of 24V. High final performance with linear small-sized fixtures, light homogeneity and short distance to diffuser. Great length flexibility, with a minimum of 5cm for unthinkable corners.



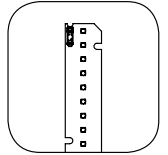
In compliance with:
IEC 62031 / IEC 62471 / IEC 62717

APPLICATION

PRODUCT DESCRIPTION



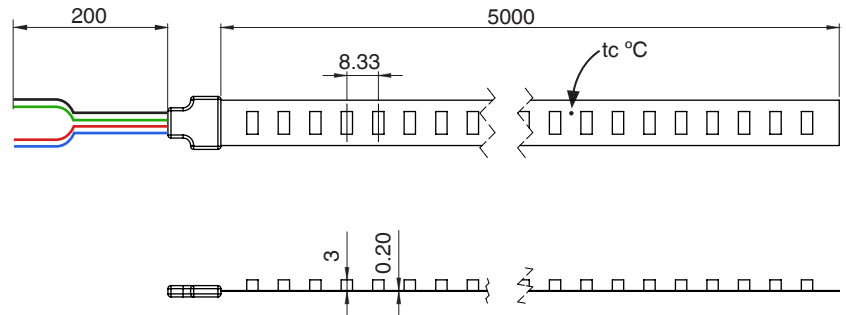
- Efficiency > 100lm/W
- Connection through soldered wires in module
- Easy installation
- Including additional flex PCB connectors
- High colour homogeneity
- Compact design 12mm-wide
- Minimum length 50mm
- SELV voltage – 24V



TECHNICAL DATA

- SELV voltage
- Available with 120 LED/m
- 50 mm length (6 LED) cut
- Operating temperature between -20°C and +45°C
- EN 61471:2008 group 1
- Standard Tc 75°C
- Viewing LED angle 120°
- Weight 60 g
- MOQ 5 metres (reel)
- Packaging box weight (approx.) 700 g (10 reels)
- PWM dimmable

DIMENSIONS



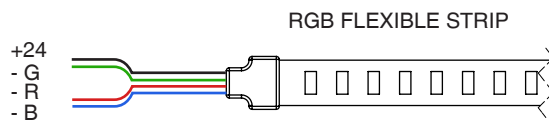
(*) measured in mm

SPECIFIC TECHNICAL DATA

CODE	QTY LED	RATED CURRENT mA	SPECIFIC TECHNICAL DATA			NOMINAL POWER (W)	COLOR	TOTAL FLUX (lm)	SPE-CTRUM
			VOLTAGE Min (V)	VOLTAGE Typ(V)	VOLTAGE Max(V)				
31.13.F2835A60QL/ UL-2700K-90-24C	120	1200	24	24	24	28,90	RED	310	620-630
							GREEN	760	510-525
							BLUE	210	455-470

Note: All values are calculated on linear meters.
Always heatsink the flexible strip over aluminum to keep temperature < 75°C over Tc.

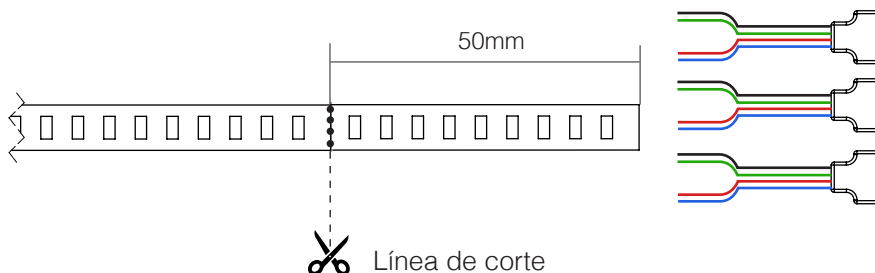
CONNECTION EXAMPLE



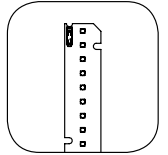
- +24 = 24 Vcc constant voltage
- G = Green color negative
- R = Red color negative
- B = Blue color negative

- * Connection to common cathode driver.
- * Do not connect more than 5 metres in series.

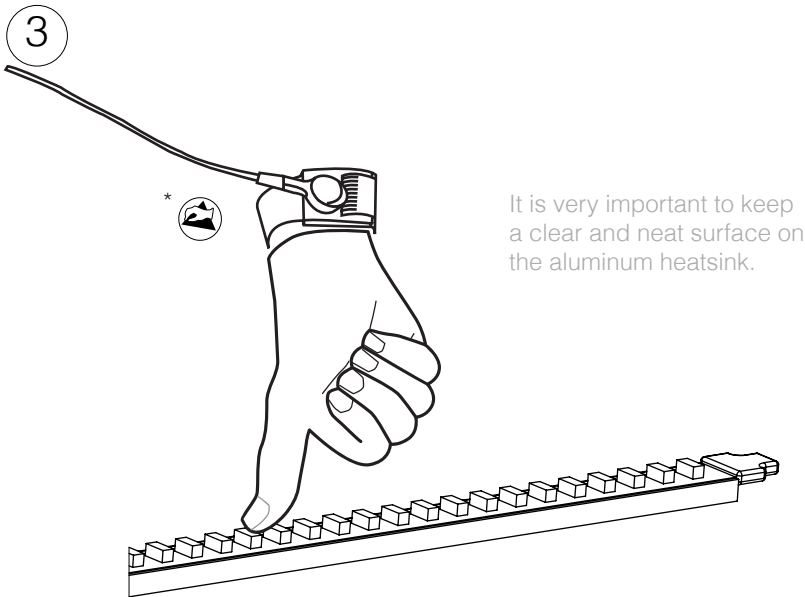
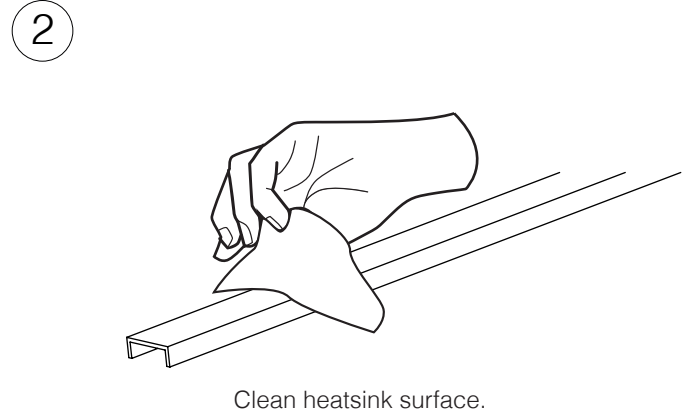
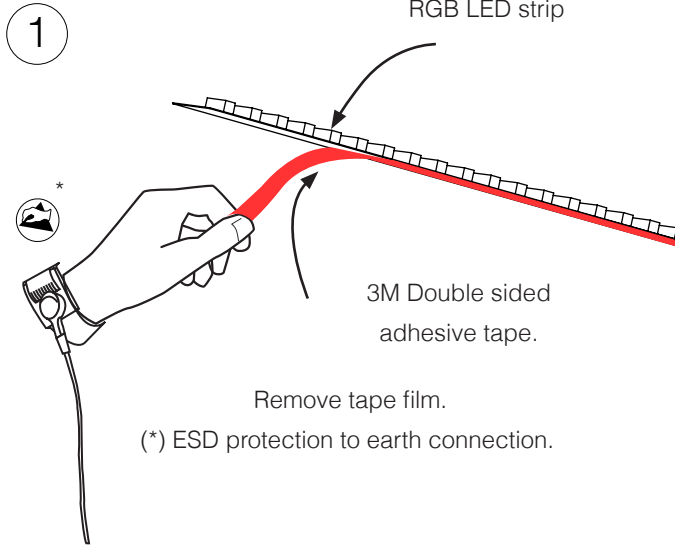
For cutting LED strip:



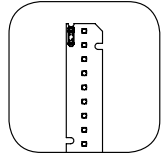
* Each reel contains 3 additional connectors.



INSTALLATION AND CONNECTION EXAMPLE



Stick LED strip on the aluminum heatsink carefully.
(*) ESD protection to earth connection.



SECURITY AND INSTALLATION INFORMATION



ELECTRICAL POWER

MERAKI FLEX CV RGB 120 must be fed at constant and steady current; the energy source power must be in accordance with the quantity of connected modules for proper functioning of the module (or group of modules) connected in parallel. Family MERAKI LED MODULES have polarity, for this reason rated current, nominal power and polarity must be taken into account. If that is not the case, the LED module might be irreversibly damaged. MERAKI LED MODULES require specific driver protection against short-circuit currents, temperature raise and overloads.



ISOLATION

MERAKI FLEX CV RGB 120 functions with SELV voltage, does not require active isolation of the component as long as maximum reference SELV voltage is not exceeded. In other case, it will be mandatory earth connection on all conductive components of the fixture or light engine when the number of modules in the series exceeds SELV voltage. The driver must be in compliance with CE, UL or valid analogous regulation.



ESD – STATIC ELECTRICITY INFORMATION

MERAKI FLEX CV RGB 120 contains electronic components which are very sensible to static electricity. In this respect it is highly recommendable to always manipulate the items with appropriate ESD protection, and take adequate measures for safety matters. If you need further information please refer to our webpage www.idled.eu.



MOUNTING AND INSTALLATION

I+D LED S.L. is not responsible for the installation of the product. MERAKI FLEX CV RGB 120 must be perfectly placed (and/or stick) on the lighting device, profile or base for a proper connection between modules and power source respecting its nominal values. This modules are designed to be introduced inside luminaries capable to dispel the heat generated by the module. PBS must be introduced carefully inside the system or luminaire. Always avoid compression stress or superficial voltage stress over the electrical components.

If any type of chemical substance is used during the assembly of the luminaire or light engine, it must not have any type of curing by means of gas condensation; as these chemical substances may damage the LEDs.

Ideal wire for this connection type is multipolar flexible wire of 0,2-0,75 mm²; or use the provided 4 poles connectors to continue with an additional supply lines for the flexible strip up to 4 modules following each other. Do not attach more than 5 m in series.



TEMPERATURE

MERAKI FLEX CV RGB 120 life-time depends to a great extent on operating temperature. Under no circumstance temperature should exceed the maximum permissible (T_c=75°C) limit here indicated. Exposure to higher temperatures might affect its long term proper functioning. Room temperature must be measured under worst-case conditions to ensure life-time and keep product's guarantee. Store modules between -20 °C and +80 °C, and at a maximum humidity level of 65%.