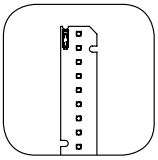
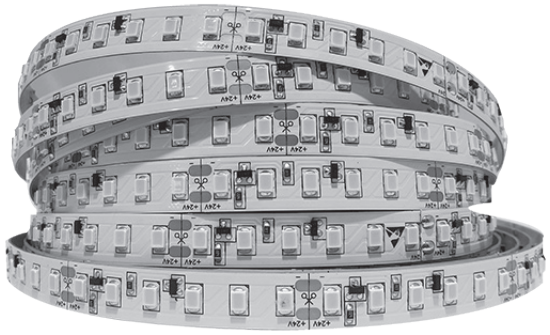
MERAKI FLEX

MODULE 24V WHITE 60-120 (5000X10MM)





MERAKI family introduces flexible LED strips MERAKI FLEX CV 60/120 in WHITE. They are designed to be feed at constant voltage of 24V. Module's colour reproduction consistency and LEDs distance in a relation of 60-120 LED/m makes it an outstanding product for direct and indirect lighting, as pubs, restaurants, offices or similar. 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. The module has integrated a driver for current control that contributes to guarantee homogeneous intensity and improves lifetime.

lm/$ >100 lm/W

3 Years Guarantee

In compliance with:

IEC 62031 / IEC 62471 / IEC 62717

APPLICATION

PRODUCT DESCRIPTION

- Efficiency > 100lm/W (white colour)
- Connection through solded wires in module
- Easy installation
- Including additional flex PCB connectors
- High colour homogeneity 3 SDCM
- Compact design 12mm-wide
- 50 mm min. length
- SELV voltage – 24V

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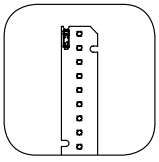
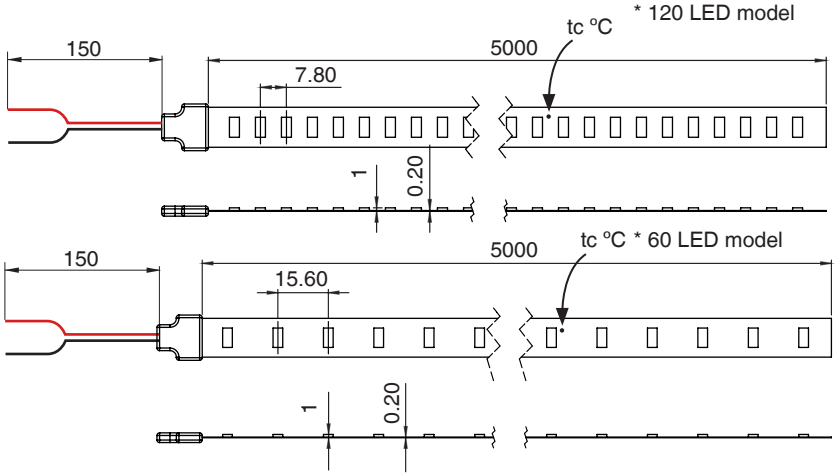


TECHNICAL DATA

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

DIMENSIONS



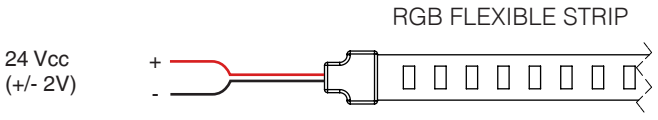
(*) Measured in mm

SPECIFIC TECHNICAL DATA

CODE	CCT	IP	QTY LED	CRI TYPE	VOLTAGE **Typ(V)**	AVERAGE CURRENT (A)	NOMINAL POWER **(W)**	LUMINOUS EFFICACY **(lm/W)**	TOTAL FLUX **(lm)**	TOTAL FLUX LED **(lm)**
31.13.FW120.02.24	2700K	IP20 indoor	120	>92	24	0,95	22,80	81,05	1848	15,4
31.13.FW120.03.24	3000K	IP20 indoor	120	>92	24	0,95	22,80	94,63	2157,6	17,98
31.13.FW120.04.24	4000K	IP20 indoor	120	>92	24	0,95	22,80	102,79	2343,6	19,53
31.13.FW60.02.24	2700K	IP20 indoor	60	>92	24	0,475	11,40	81,05	924	15,4
31.13.FW60.03.24	3000K	IP20 indoor	60	>92	24	0,475	11,40	94,63	1078,8	17,98
31.13.FW60.04.24	4000K	IP20 indoor	60	>92	24	0,475	11,40	102,79	1171,8	19,53

Note: All values are calculated on linear meters.
For 120 LED/m model it is required to dispel heat appropriately to keep Tc < 75ºC.
Flux measure tolerance of +/-7% with Tc < 65ºC.

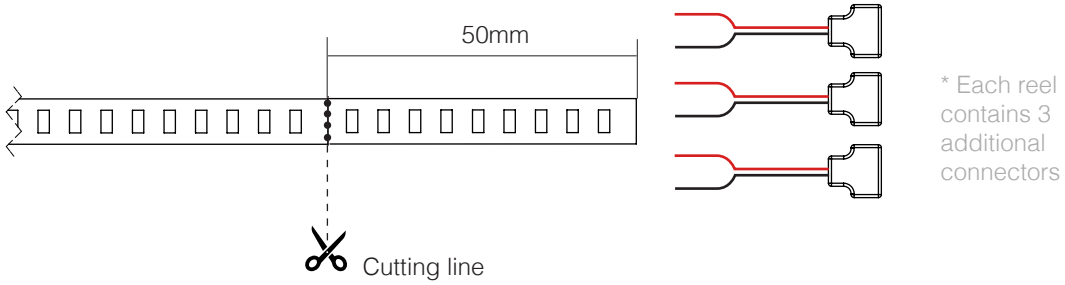
CONNECTION EXAMPLE



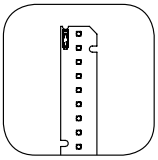
+ = Positive
- = Negative

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

For cutting LED strip:

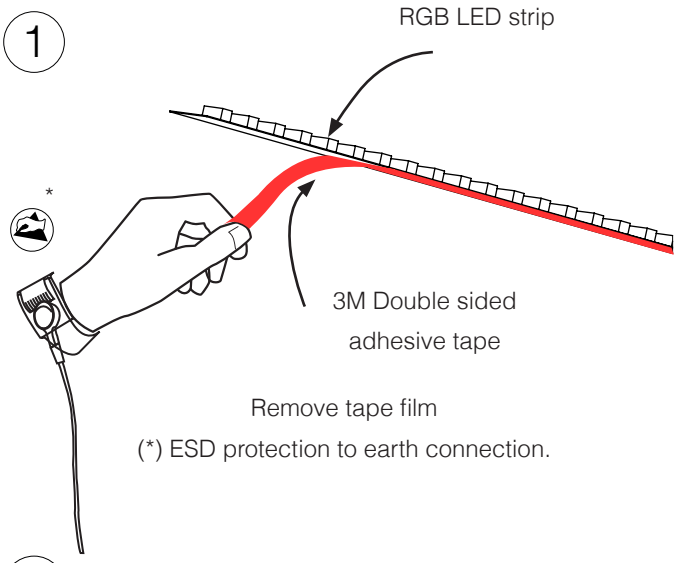


* Each reel contains 3 additional connectors



INSTALLATION AND CONNECTION EXAMPLE

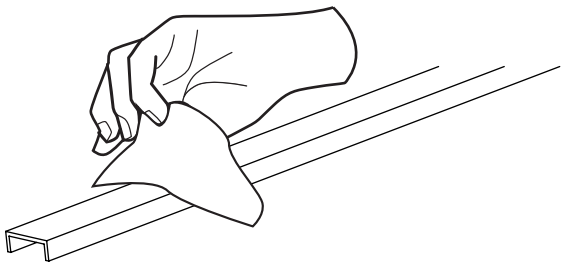
1



Remove tape film

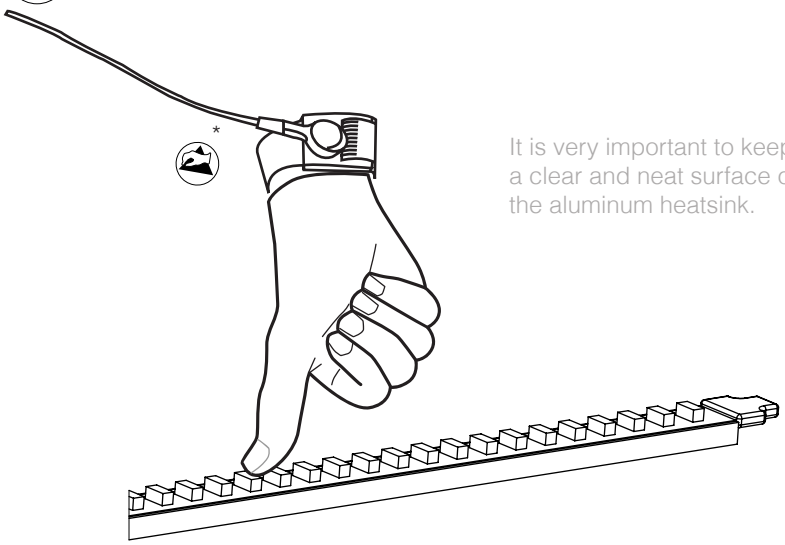
(*) ESD protection to earth connection.

2



Clean heatsink surface.

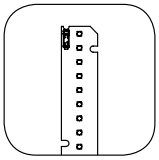
3



It is very important to keep a clear and neat surface on the aluminum heatsink.

Stick LED strip on the aluminum heatsink carefully

(*) ESD protection to earth connection.



SECURITY AND INSTALLATION INFORMATION

ELECTRICAL POWER

MERAKI FLEX CV 60/120 must be feed 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 60/120 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 60/120 contains electronic components which are very sensible to static electricity. In this respect is it 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 60/120 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 luminary. 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 bipolar flexible wire of 0,2-0,75 mm^2; or use the provided 2 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 60/120 life-time depends to a great extent on operating temperature. Under no circumstance temperature should exceed the maximum permissible (Tc=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%.