

METOLIGHT® LED-Strip Typ MLS-2016-24-CCT-Ra90

METOLIGHT LED strips with an extra strong Cu layer in the flexible circuit board, which enables lengths of up to 10 meters (instead of the usual 5 meters). The SMD LEDs have an efficiency of approx. 100 lm / W according to energy class F, with CRI Ra > 90, consistency 3 McAdams lenses and a light angle of 120 °. The back has 3M tape that secures the strips.

In this version, warm and cold white LEDs are installed, whereby the light color can be continuously regulated from approx. 2700K to 6500K via an optional 2-channel control and the brightness can be dimmed.

We offer the MLS-2016-CCT in 12 VDC and 24 VDC with 240 or 480 LEDs per meter, IP20 or IP67 (embedded in the silicone tube).



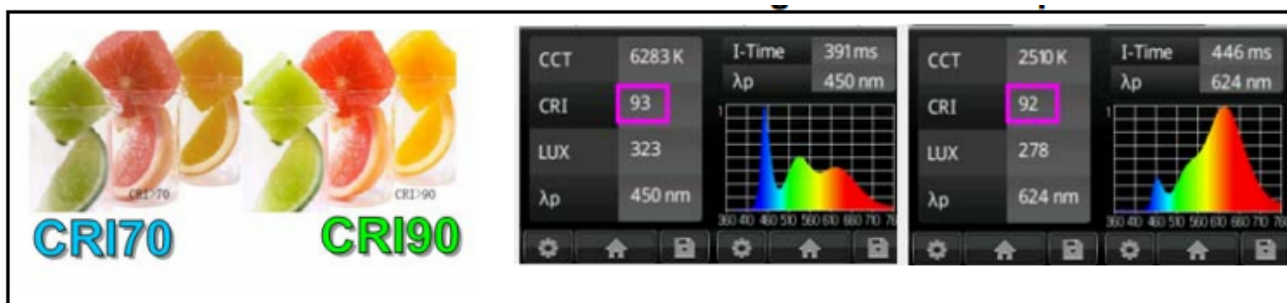
We generally recommend using the 24 VDC LED strips because the current here is only half as high as with the 12 volt version. This means less heat development, less loss of tension and longer durability.

LED strips should always be glued to cooling surfaces during continuous operation, e.g. Metolight LED aluminum profiles, which are available in many variants. Because of their poor thermal conductivity, wood, glass or plastic are not suitable for operating the LED strips with continuous light.

The LED strips in this series have their own CC control for each LED segment, which compensates for the voltage drop over the entire length. This ensures that all LEDs light up with the same brightness from the beginning to the end of the strip. The brightness of the LED strips can be adjusted using suitable low-voltage dimmers. We recommend connecting each LED strip with a length of 5 meters directly to the LED power supply unit.

LEDs with a high CRI Ra > 90 offer significantly better color rendering than industrial LEDs with a CRI Ra of 70 or 80.

In the MLS-2016-xxx version, we offer these LED strips with single color, warm / nature / cold white.

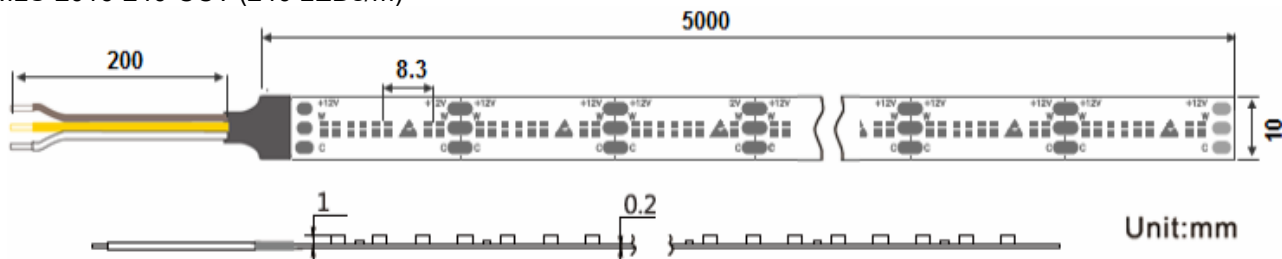


Common technical data:

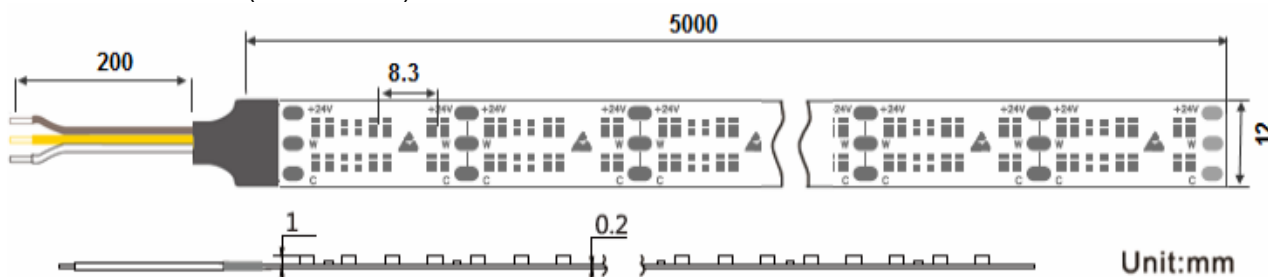
Voltage	12 VDC or 24 VDC (depending on version)
Power	19,2 / 38,4 W/m (depending on version)
LED-type + qty/m	SMD 2016, 240 / 480 LEDs/m, (depending on version)
Beam angle, efficacy	120° / 100 lm/W +/- 10%
Current control	Constant current by resistor per segment
Cuttable	By segment, 96 mm
LED-distance	8,3 mm,
LED-Strip width	10 / 12 mm, (depending on version)
LED-Grouping	12 / 24 LEDs (depending on version)
Light colors	Warm (2700K) and cold (6500K)
LED-Streifen-Länge	5 m
Connection cable	3pole, white, yellow, brown, 20 cm long, common anode
Environment	-20 ~ + 40°C
Protection classes	IP20 / IP67, class III
Dimmable	With suitable dimmer 12 / 24 VDC, DALI, 0-10V

Sizes:

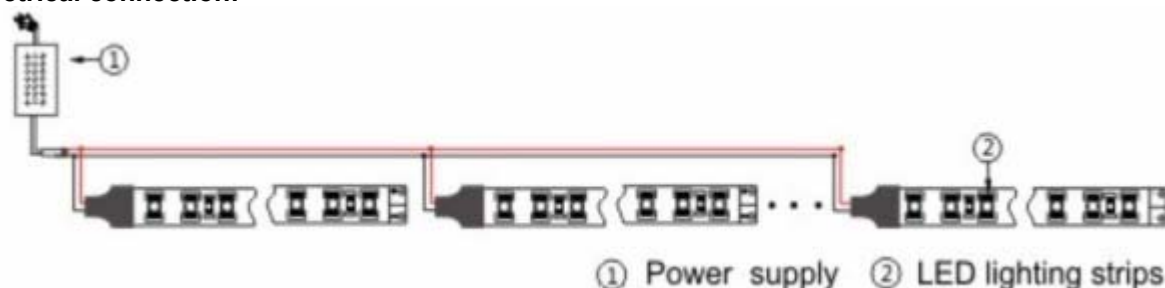
MLS-2016-240-CCT (240 LEDs/m)



MLS-2016-480-CCT (480 LEDs/m)



Electrical connection:



Notes:

Use only high quality LED power supplies. Pay attention to the correct connection voltage and the total output of the connected LED strips.

We generally recommend selecting the power supply unit output at least 20% higher than the total connected LED output.

In addition, between the power supply unit and the LED strip, controls can be connected (e.g. color change in the case of multi-colored LED strips, dimmers and control amplifiers. Here, too, attention must be paid to the respective power and this should not be continuously loaded above 80% of the maximum power and correct polarity when connecting the LED strips.

Available versions:

Order code: MLS-2016 – Voltage – LEDs/m – IP-Class – CCT

Example: MLS-2016-24-060-20-CW for LED-Strip Type MLS2016, 24 VDC, 60 LEDs/m, IP20, dual white

The version with 480 LEDs/m is only available with 24 VDC and IP20.

Type	LEDs/ m	Voltage	Power	Width	IP-class	Color	Lumen / m
MLS-2016-12-240-20-CCT	240	12 VDC	19,2 W/m	10 mm	20 / 67	Dual-white	1500-1600/m
MLS-2016-12-480-20-CCT	480	12 VDC	38,4 W/m	12 mm	20	Dual-white	3000-3200/m
MLS-2016-24-240-20-CCT	240	24 VDC	19,2 W/m	10 mm	20 / 67	Dual-white	1500-1600/m
MLS-2016-24-480-20-CCT	480	24 VDC	38,4 W/m	12 mm	20	Dual-white	3000-3200/m