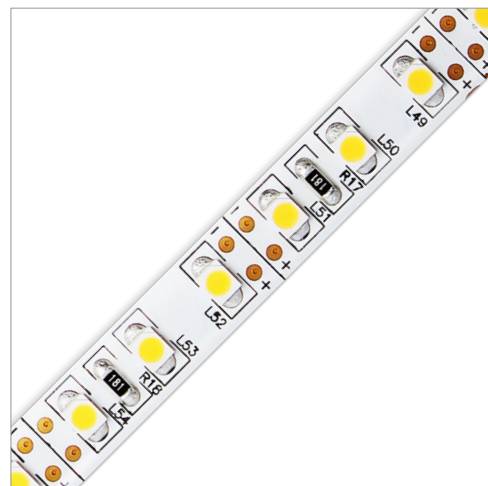


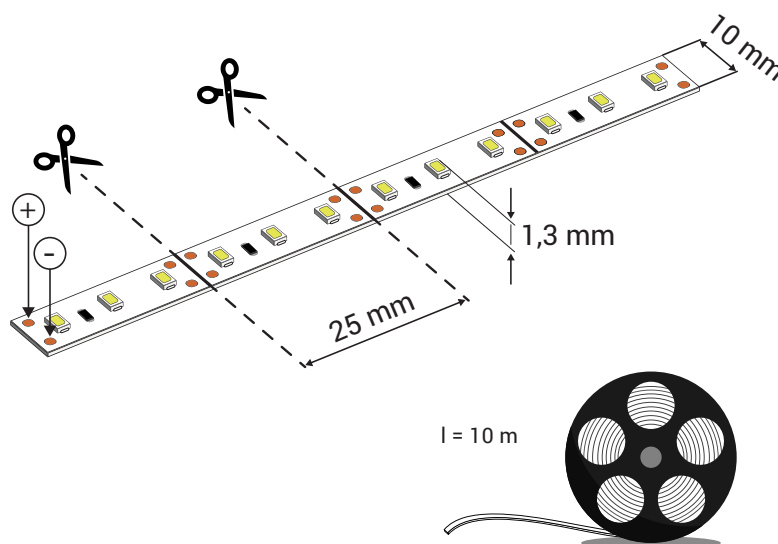
## LED strip 120/9,6/xxx OptiLED

- OptiLED LED strip for home and furniture with double LED density and higher luminosity
- Continuous light line thanks to the high number of LEDs using deep LED profiles and opal diffuser
- Designed lighting lines in living rooms and furniture, highlight interior, backlit furniture plinths, decorative interior and design lighting
- Lifetime L70 25,000 operating hours
- Warranty 3 years



### TECHNICAL PARAMETERS

<b>voltage</b>	12 VDC
<b>power draw*</b>	9,6 W/m
<b>LED density</b>	120 LED/m
<b>LED type</b>	2835
<b>CRI</b>	CRI>80
<b>viewing angle</b>	120°
<b>direction of light</b>	TOP
<b>module (3LED)</b>	25 mm
<b>strip width</b>	10 mm
<b>design</b>	IP20
<b>surface color</b>	White
<b>operating temperature</b>	-20 až +35 °C
<b>storage temperature</b>	-25 až +40 °C
<b>temperature Tc</b>	max. 60 °C
<b>recommended line**</b>	max. 3 m
<b>packaging</b>	10 m



### COLOR TEMPERATURES VARIANTS

Order code	Name	Color temperature	Luminous flux
00218721	OptiLED 120/9,6 12V IP20 8mm/10m	3000K	1160 lm/m
00218722	OptiLED 120/9,6 12V IP20 8mm/10m	4000K	1220 lm/m
00218723	OptiLED 120/9,6 12V IP20 8mm/10m	6500K	1170 lm/m
00215245	OptiLED 120/9,6 12V IP20 10mm/10m	2700K	1100 lm/m
00215246	OptiLED 120/9,6 12V IP20 10mm/10m	3000K	1170 lm/m
00215247	OptiLED 120/9,6 12V IP20 10mm/10m	4000K	1230 lm/m
00215249	OptiLED 120/9,6 12V IP20 10mm/10m	5700K	1180 lm/m
00217731	OptiLED 120/9,6 12V IP20 10mm/10m	6500K	1170 lm/m

\* Nominal values - see methodology „Determination of nominal value of power and luminance of TRON LED strips“

\*\* Length of LED strip line, where the luminous flux decreases by 20% - see methodology „Determination of the longest recommended line of LED strips TRON“

## APPLICATION RECOMMENDATIONS

The LED strip consists of LEDs, series resistors (may be missing with current strips) and a flexible printed circuit board to which the components are soldered. It is typically supplied in production packages - windings on plastic spools that are sealed in antistatic bags.

On the reverse side, the tape is provided with double-sided adhesive tape, which is glued to the backing after removing the cover foil.

On the tape, the scissors mark the places where the tape can be cut by cutting. If you cut the strip at another point, the LEDs in the cut section will not light.

There are solder pads for soldering of supply conductors marked with polarity symbol („+“ and „-“) on the tape and printed with other symbols (for RGB tape: +, R, G, B, for CCT tape: +, WW, CW, etc.). The pads can also be used for joining strip sections by soldering to the required length. Always connect sections of the same color temperature and led strip type.

Design the supply conductors according to the current flow. Try to connect the cabling with the shortest possible wires with the largest cross-section and star topology. To connect wires, use high quality fasteners - screw or spring terminals. Conductor currents are considerable and voltage drops at the transient resistors can significantly reduce the luminance of the assembly. Also observe the recommended maximum length of the light line when powered from one end. For long light lines, use the “T” connecting technique.

LED strips need to be effectively cooled during operation. Use aluminum LED lighting profiles. They have a representative design, the diffuser ensures the necessary light scattering and thanks to the brackets they are easy to install. For good heat transfer to the surroundings, the profile must be freely circulated by the ambient air. For good heat transfer to the surroundings, ambient air has to be able to circulate freely around the fixture. Failure to observe the maximum operating temperature on the Tc point significantly reduces its service life.

LED strips with voltage supply are supplied from a constant voltage source, typically 12V DC or 24V DC. If safety is not ensured by other means (safety position, protective conductor, earth leakage circuit breaker, etc.), use only SELV power supplies to power the tape. We recommend selecting the power output about 20% higher than the total power consumption of the LED assembly.

The brightness of the voltage strips and the mixing of color temperatures or colors can be easily controlled with dimmers and PWM modulation controls. Connect the control element between the power supply and the LED strip. With PWM amplifiers it is possible to connect complex controlled assemblies with multiple power supplies. By using intelligent controls, very complex control relationships can be defined for luminaires. Our supplied components are designed for assemblies with common plus pole of supply voltage (common anode). For the design of large and complex LED lighting assemblies, contact our staff.

Power supply LED strips are supplied from constant current sources. Unlike constant current, which has the necessary losses on the series resistors, their efficiency is close to that of the LEDs themselves. For the design of LED luminaires with current LED strips, please contact our employees.

LED strips are our sales representative for operation in an indoor normal environment without the influence of water, aggressive chemicals and electrostatic fields. Use aluminum LED lighting profiles to mechanically protect the tape, ensure cooling and diffuse light. For use in damp or outdoor environments, treat the tapes in the profile according to operating conditions with a protective varnish or with silicone. The tapes already cast from the factory should be treated with a protective varnish on the longitudinal edges of the tape in damp and outdoor environments. Use special profiles for floor and ground applications, fill the tape with silicone and seal the plexiglass waterproof.

## INSTALLATION INSTRUCTIONS

Stick the LED strip to a suitable aluminum profile or to a suitably sized aluminum strip (thickness  $0.5 \pm 2\text{mm}$ ) of appropriate width to ensure cooling and good adhesion to the substrate. Refer to the relevant technical documentation for the cooling capability of our LED lighting profiles and heatsinks.

Direct bonding to the substrate is not recommended. The strip may not adhere sufficiently to the substrate, the cooling will be insufficient, and the strip may become completely detached over time. The thermal insulating substrate also does not provide sufficient cooling of the tape. Particularly critical are porous and textured surfaces, plastics, plasterboard, wood or laminate.

It is also unsuitable to bond the tape to a thin sheet (stainless steel) - the small thickness of the material will not ensure the necessary distribution of heat to the surface and the tape will not be sufficiently cooled.

If the tape is to be bonded to a substrate other than aluminum, first check the adhesive on the sample (cure the tape after approx. 24 hours). Also check that the maximum operating temperature of the Tc strip (specified in the strip's technical documentation) is not exceeded under the particular operating conditions.

LED strips are supplied in antistatic packaging. Unpack them just before processing and store unused packages in their original packaging. Fit the strip in an antistatic environment and with antistatic protective equipment to avoid electrostatic discharge.

Use caution when handling the tape - when unpacking or bonding. Do not apply torsion or tension to the tape, be careful not to create loops when unwinding, do not bend it at sharp angles, and do not press the tape directly when gluing. Mechanical stress will break the ceramic series resistors or damage the LED cases. Defects may not occur immediately and may cause accidental flickering and other hard-to-detect and difficult-to-remedy problems over time. Tearing off the already glued tape from the mat will completely destroy the tape.

First, plan the geometry and gluing sequence well. It is not possible to peel off the already glued tape. Tear off the tape and attach a new one. Before bonding the new tape, remove adhesive residues from the substrate.

Cut the tape exclusively at the indicated locations. If you cut the tape elsewhere, the LEDs in the section will not light.

Thoroughly clean and degrease the aluminum surface before bonding (IPA, alcohol).

For the LED strip, remove the backing sheet from the reverse side and do not touch the adhesive layers anymore. Apply the tape gradually to prevent the formation of bubbles and unevenness. Press the blunt object against the tape underlay on the side edges of the tape outside the areas with LEDs and series resistors. Under no circumstances should you push the LEDs or series resistors directly, especially with sharp objects. Longer sections should be glued in portions.

The profile with glued LED strip cannot be shortened by sawing.

The strip cannot be bent in the bonding plane. Create an arc from broken sections, which are electrically connected by wires after gluing.

Use separate a professional soldering iron and a lead-free solder for soldering the power cabling. Never use gas soldering iron, tin-plated tin or chemically aggressive fluxes for soldering.

Fix the connected terminals against tearing with epoxy adhesive.

For diffusers, remove the protective film before use.

## ECOLOGICAL DESTRUCTION



LED strips are electronic devices and must be disposed of in an environmentally friendly manner after decommissioning. Under no circumstances should they be disposed of with your household waste. household waste. They should be handed over for recycling.

Disposal of packaging is ensured in the combined system EKOKOM.

Waste disposal is provided in the combined EKOLAMP system.

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