

5 YEARS WARRANTY

IP20/IP67

CE

RoHS Compliant

UL Certified

IP20/IP67

# LINELIT LED STRIP (IP20 | IP67) installation guide

## FOR LONG-LASTING PERFORMANCE

**Required tools:**  
Side cable cutter with cutting capacity >110 mm.  
Soldering iron, solder, electrical tape, wire connectors and end caps.

1. Clean the surface on which the LED strip will be applied.

2. Keep the LED strip on the reel while measuring the needed length.

3. Stick the LineLit on the clean surface. Make sure that LineLit is-sticked well. No air gaps.

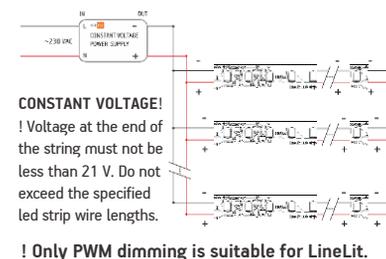
4. Connect LineLit strips:  
IP20 – use standard wire connectors;  
IP67 – use waterproof wire connectors

5. Cap all unused wire. The strand of LineLit should not be looped to create a closed circuit.

6. Choose a 24 VDC power supply. Then, connect the red wire (+) of the LineLit to the positive wire (+) of the power supply. Connect the black wire (-) to the negative wire (-) of the power supply. Use waterproof or simple connectors depending on the IP class.

7. Finish by connecting the AC power line to the input wires of the power supply.

### CONNECTION SCHEME:



### FOR THE BEST PERFORMANCE:

- ✓ The LineLit should be used on Aluminum profiles
- ✗ Do not bend the LineLit very aggressively.
- ✗ Do not keep the soldering iron on solder parts longer than 3 seconds.
- ✗ Do not touch the LED diode or other components the with soldering iron.
- ✗ Do not bend LineLit sideways

### CUTTING AND INSULATION OF IP67 LINELIT

All non-powered ends have to be sealed using a closed end cap.

**Tools:**  
Utility knife or cable cutter for cutting and acid-free RTV silicone to preserve the IP67 rating. Closed-end caps (x2) comes with LineLit.

1. Cut the desired LineLit length only between solder pads. The cutting point is marked.

2. Unused ends must be capped. Put the acid-free RTV silicone into the end cap and firmly push cut LineLit into it. Let the silicone dry for a couple of mins before final installation.



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### SAFETY PRECAUTIONS:

- Installation of LED strip must be carried out by a qualified technician in accordance to relevant electrical equipment handling standards.
- Before installing make sure that the fixing area can bear the total weight of the led strips.
- Led strips and power supplies have absolute maximum ratings. Comply with the specifications to avoid failure, damage and injury.
- Do not modify led strips. This may lead to damage, injury and will void the warranty.
- Do not connect led strips to a power supply that is turned on! Injury and led strips failure may occur. If a power supply is turned on with no load (for example because of a bad connection), turn the power supply off and allow 5 minutes for it to fully discharge before continuing work on the installation.
- Avoid placing any high-temperature objects around the led strips. Also avoid putting cloth or paper on the led strips. It may lead to combustion, burnout, overheat, failure, deformation.
- Avoid mechanical stress on LED strip, especially on LEDs and other electrical components.
- Avoid dusty environment while mounting LED strip.
- Before performing maintenance, turn off the power and allow the led strips to cool down. Otherwise, there is a danger of burns.
- Do not wipe or spray led strips with volatile materials such as thinner or benzene as it may lead to damage or spontaneous combustion.
- If there are any signs of smoke or there is a smell of burnt plastic, turn off power to the installation immediately, and investigate the power supply and wiring carefully.
- Ensure that power supply and other system components are properly earthed if using Class 0 or Class I power supplies.

### INSTALLATION RECOMMENDATIONS

- Be sure to install led strips in maintainable places.
- Avoid using excessive force during installation in order to minimize the risk of damage to led strips or cabling.
- Be careful not to go beyond the recommended maximum quantities of led strips for a given power supply. Overload may cause blinking, uneven illumination, or failure.
- These LED strips are designed to work with constant-voltage power supplies. Recommend to use BaltLED SignBridge power supplies. Do not connect to constant-current power supplies, as doing so will cause immediate failure of led strips.
- Please install led strips using appropriate cables. There is a possibility of cables disconnecting or breaking due to shrinkage caused by temperature changes.
- Make sure to provide sufficient ventilation and rainwater drainage for the installation containing the led strips to prevent shortening their lifetime due to excess heat, long-term exposure to water or ice damage. Operating temperature should be within -20°C ~ 60 °C.
- When fixing the cabling of the installation avoid using metal cable ties or brackets – they may damage the cable insulation and cause short-circuits.
- In order to prevent LED breakdown caused by static discharge make sure not to touch the wiring of the led strips with bare hands.
- Connect only to power supply with 24V DC output. Red wire to positive output of power supply. Black wire to negative output of power supply
- Do not install led strips under direct sunlight or falling water – premature failure may occur.

### STORAGE AND GENERAL REMARKS

- Make sure to store led strips in a dry place, avoid elevated temperatures, high pressures, vibrations, corrosive or combustible materials, direct sunlight.
- Led strips cannot be used in combination with other types of led strips. This may cause colour and brightness mismatches and lead to premature failure.
- Please ensure that the materials and components used in the installation do not contain or emit sulphuric compounds. Sulphuric compounds attack the led strips components and may lead to changes in colour and premature failure.
- Make sure to keep records of purchasing and installation dates of the led strips.