

## **GENERAL INSTRUCTIONS FOR USING NEON FLEX LIGHT 230V**



For your own safety, please read this user manual carefully before you initially start-up.

1. Make sure the power is switched off during installation. Never connect the mains voltage while the light tube is still on the reel, the heat development can cause fire. Never cover the light tube while lit and do not install on flammable material surface.
2. Installation and maintenance work may only be carried out by an qualified person in accordance with local safety regulations.
3. Check whether the mains voltage of the LED neon flex Light corresponds with the mains voltage of the power supply.
4. For LED neon flex Light 230V and low voltage connected to a transformer, always use a power cable with converter, otherwise the LED's will flicker. For low voltage it is best to use a stabilized DC power supply in which case you don't need a converter.
5. Only cut the LED neon flex Light at the identification mark, otherwise part of the tube will be permanently useless. Make absolutely sure that the mains voltage is not connected. Use a pair of sharp cutting pliers and make sure the edge is smooth and at the right angles.
6. Do not use the product when the insulation material is broken/damaged, it may cause an electric shock.
7. Always seal the end of a (cutted) LED neon flex Light with an end cap, which must be glued on with pvc or silicon glue. Otherwise it may cause an electric shock.
8. Do not reverse polarity when connecting from both ends. This will damage the internal PCB board. Always test connections with your multi-meter.
9. Do not install the product into a small confined space or a room where it is warmer than 35 °C, it may cause overheat risk.
10. Installation height have to be beyond arm reach, so it cannot be touched by children after installation.
11. Do no operate LED neon flex over the specified voltage or LED life degradation will be greatly increased.
12. The light source of this luminaire is not replaceable; when the light source reaches its end of life, the whole luminaire should be replaced.
13. **Assembly**  
Assemble the LED neon flex Light in such a way that there is sufficient ventilation and the heat can flow off. Do not assemble on surfaces that can vibrate or rattle violently due to severe wind. Decorations that are spanned over the road or are applied at shopping centers must be allowed some movement with the wind. Assemble the tube face front (the part producing the most light) and only cut the rope light per complete unit and at the identification marks such as shown in the following diagram.
14. **Installation**  
Depending on the specific circumstances different fixing material are available. Use tie-wraps along a steel wire or preshaped frame; for outdoor usage take the UV-durable quality. An aluminium channel is available for straight lines such as PVC, PET. Mounting clips can be used for both straight and bent lines. Affixation distance: the recommended distance for clips and bundling straps; horizontal 20 cm and vertical 30 cm. Make sure the LED neon flex is not twisted!
15. **Expansion**  
Aluminium channels have a coefficient of expansion, meaning that the difference in length per 2 meter can increase with several millimeters. Make sure to keep about 4mm of space between two channels.
16. **Preheating and use**  
It is important to preheat LED neon flex Light (only at low outside temperatures) before starting to use the material. You can do this by connecting the required length to the mains supply, allowing the LED neon flex Light to burn for a couple of minutes until it is flexible. Especially when making bends it is very important to preheat the rope. Disconnect the mains supply before starting the assembly. Always unwind LED neon flex Light from the reel, this prevents loops or swaying which could damage the internal wiring.

### 17. Bending

It is very important to bend the LED neon flex Light perpendicular - straight left or right – like is shown below in the figures. Make absolutely sure to bend rope light in the right direction, left or right, making sure that the two internal wires make the same curve. Avoid at all times that one of the two wires (the inner side one) needs to make a very sharp curve because of wrong bending. Bending rope light incorrectly can cause damage to the internal wiring. Please see drawing below for illustration.

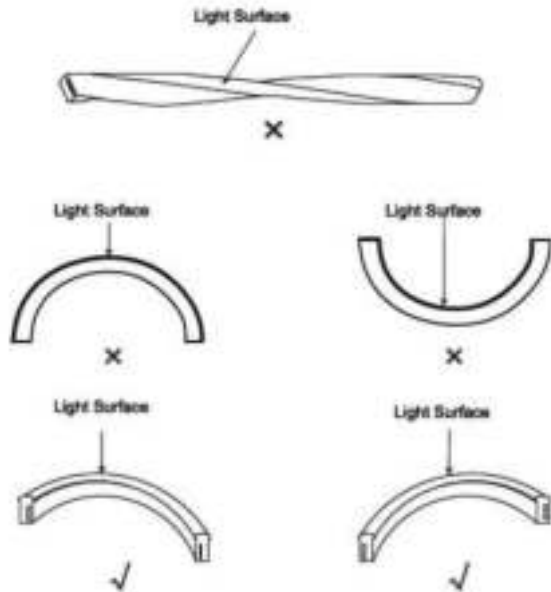


Figure 1 – Bending the LED neon flex 230V correctly

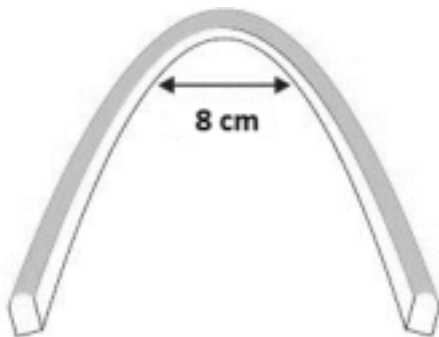


Figure 2 - The minimum bending diameter is 8 cm

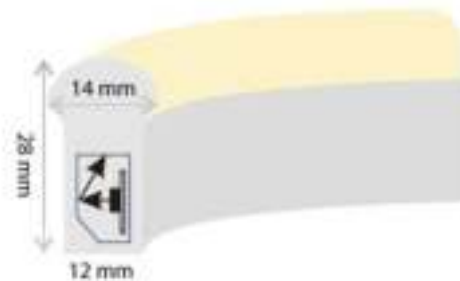


Figure 3 - Dimensions of the LED neon flex 230V

**18.** If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like shortcircuit, burns, electric shock, etc.