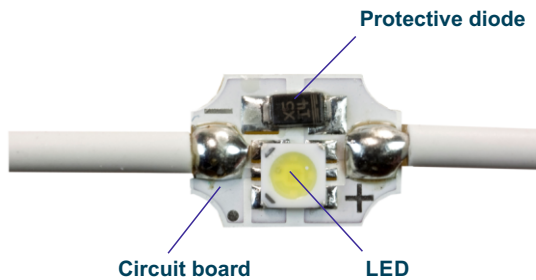


LED Tube



Technical description

The ***hansen*** LED Tube is a highly flexible system designed for backlighting acrylic, banner fabric or similar translucent materials. Its primary application is the illumination of channel letters and light boxes for illuminated advertising purposes.

The **LED Tube** consists of the following main components:

- Light-emitting diode (LED)
- Protective diode (Zener diode)
- Heat shrink tubing
- Converter
- Mounting material

Each LED and protective diode is fitted to a small circuit board. The individual circuit boards are connected by wires of the same length soldered to the circuit boards. For better protection, these components are enclosed in a transparent heat shrink tubing.

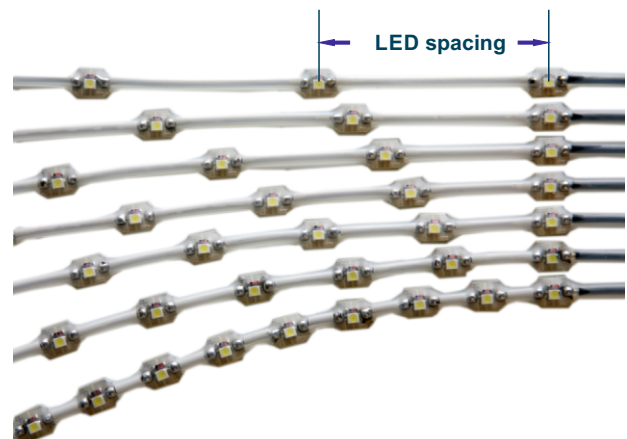
The connecting wires between the LEDs can be bent allowing the **LED Tube** to be flexibly adapted to the surrounding conditions to achieve a uniform illumination of channel letters.

The following parameters can be varied:

- LED spacing
- LED power rating (brightness)
- Light colour (coloured or white)
- Colour temperature (for white LEDs)

The **LED Tube** can also be supplied with two LEDs on each circuit board. This “duo” variant **LED Tube 2x100** offers double light output. Fitted with two coloured LEDs, mixed colours such as turquoise, yellow or magenta can be generated.

Electrically, the LEDs form a series connection. Special converters for the operation of the LED Tube can be supplied as well. They supply a constant current protecting the LEDs against overloading.



LED Tube
Standard and Power



LED Tube 2x100
Protective diode for each LED

