hitechled®
DIFFERENT LIGHTING

LINEA
Calligraphy

Modella la
LUCE

LINEA *Calligraphy*

Data sheet

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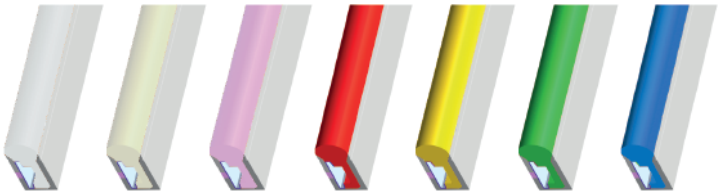
AVAILABLE COLORS



- INDEPENDENT TUBE SYSTEM TO OPTIMIZE THE SEGMENTATION AND THE TERMINATION OF THE PRODUCT.
- THE SEGMENTATION OF ONLY 8.3 mm. ALLOWS GREATER PRECISION IN SHAPING THE FORMS OF LIGHT

Code	Model	Color
HTL 000749	HLC9E-120W12-5	White
HTL 000750	HLC9E-120NW12-5	Natural White
HTL 000758	HLC9E-120P12-5	Pink
HTL 000751	HLC9E-120R12-5	Red
HTL 000757	HLC9E-120Y12-5	Yellow
HTL 000752	HLC9E-120G12-5	Green
HTL 000753	HLC9E-120B12-5	Blue

TECHNICAL PARAMETERS

Operating Voltage	DC 12V (±1V)
Wattage	9,6 W/m
Dimensions	5.000x13x6 mm.
LEDs quantity	120 LED/m.
Minimum length of a cuttable segment	8,3 mm. (1 LED)
IP protection (only if the product has not been cut)	IP67
Operating temperature range	-30 C° ~ +50 C°
Storage temperature range	-0 C° ~ +40 C°
Storage enviroment humidity	RH < 60%
IEC protection class (with SELV power supply)	Class III
Wires lenght	150 mm.
Viewing angle	180°
Life time (TA ≤ 50 °C , VDC 12,0 V.)	50.000h (L70)
Pcs per bag	1
Warranty (see terms and conditions)	3 Years

PRODUCT DESCRIPTION

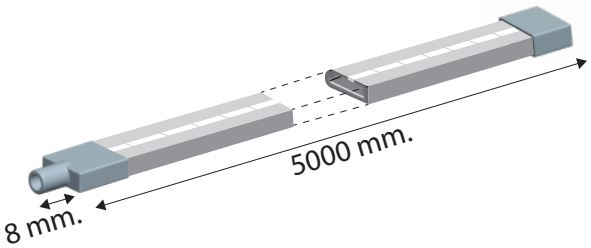
LINEA Calligraphy is a very thin flexible LED tube made of extruded silicone, it is mouldable and suitable for luminous decorations, for example it is ideal for making letters with luminous wire simulating neon.

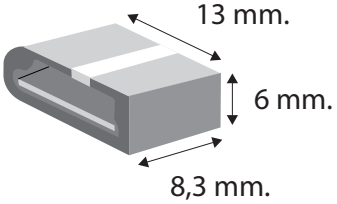
APPLICATIONS

- Realization of letters and artistic contours with luminous line.
- Architectural and decorative applications.
- Linear lighting.

FEATURES

- Minimum cutting distance: 8.3 mm. (1 Segment).
- Colored silicone.
- Flexible tubular silicone structure.
- Silicone tube independent from the LED strip.
- Sideways bendable structure.
- Opal silicone caps that become luminous.
- UV resistant anti-yellowing silicone.
- Wires with silicone insulation to adhere perfectly to the silicone sealing gel.





50.000 h | 3 Years WARRANTY | 12 VDC | III | RoHS | CE

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GENERAL INFORMATIONS

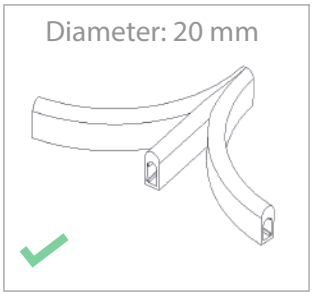
Handling- The independence of the silicone tube from the internal strip favors slippage between the two elements during bending and also allows the strip to be extracted a little to perform welding of the wires more easily.

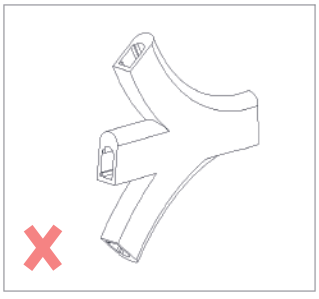
Cut- The product can be cut every 8.3 mm. and headed with special opal caps that become luminous.
Transparent polycarbonate fixing clips are available (optionals).

Packaging - The product is supplied wrapped in a support roll and packaged in an antistatic bag.

BENDING

The minimum bending diameter is 20 mm and can only be done horizontally.





PHOTOMETRIC FEATURES

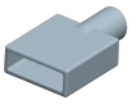
Model	Luminous Flux	Color
HLC9E-120W24-5-2	439 Lm/m	White 5000/5500k
HLC9E-120NW24-5-2	400 Lm/m	White 3500/3800k
HLC9E-120P24-5-2	175 Lm/m	Pink
HLC9E-120R24-5-2	41 Lm/m	Red
HLC9E-120Y24-5-2	241 Lm/m	Yellow
HLC9E-120G24-5-2	119 Lm/m	Green
HLC9E-120B24-5-2	44 Lm/m	Blue

ACCESSORIES

Code	Model	Description
HTL 000748	LINEA WIRES CAP	Cap with the hole for the entry of the wires
HTL 000578	END CAP	Cap without holes for ending
HTL 000577	CLIP	Polycarbonate fixing clip
HTL 000754	SILICONE WIRES	Pair of 150mm silicone wires.
HTL 000497	SILICONE GEL	Silicone Gel for gluing of caps, 310 ml.
HTL 000512	PRIMER	Primer to strengthen the gluing of caps

CLIP

LINEA WIRES CAP



END CAP

This product comply with the following European Standard:

- EMC - Directive 2014/30/EU
  - EN 55015:2019/A11:2020
  - EN 61000-3-2:2019/A1:2021
  - EN 61000-3-3:2013/A1:2019
  - EN 61547:2009
- Safety - LED modules for general lighting
  - EN 62031:2020
- IP protection
  - IEC 60598-1:2020 Section 9
  - IEC 60529:1989+A1:1999+A2:2013
- RoHS
  - Directive 2011/65/EU
  - Directive 2015/863 EU

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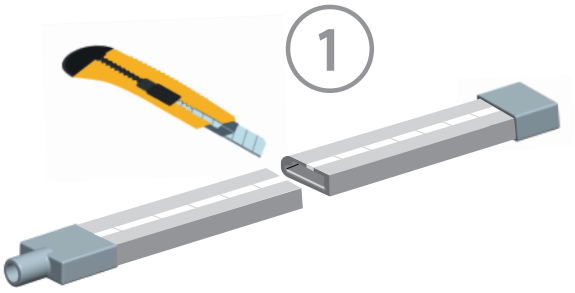
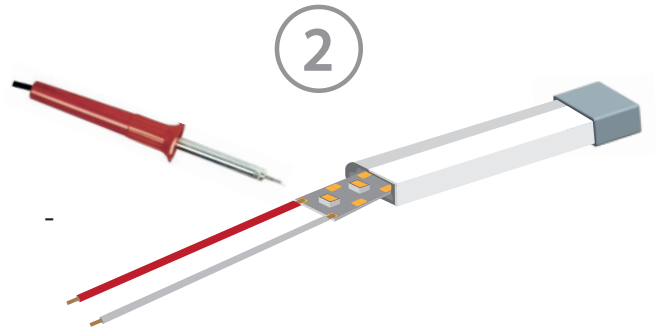
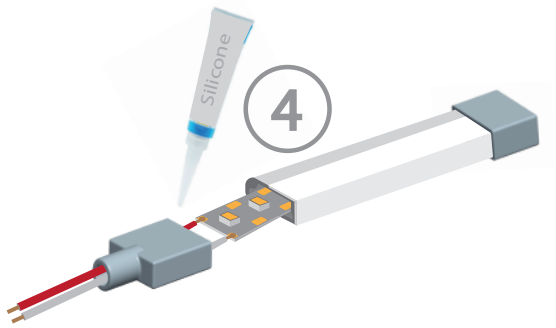
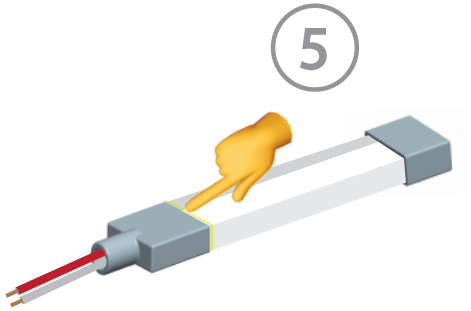
SEGMENTATION









⚠ WARNING!! Make sure that the silicone gel has filled the empty spaces of the cap well to avoid infiltration.

OPERATIONS FOR CUTTING AND GLUING CAPS

(1) The cut must be made in correspondence with the marker line that transpires from the side strip of the product, using a sharp cutter and sliding it as if for slicing.

(2) Weld the wires gently pulling the strip out a few millimeters to facilitate the operation and push it back in after welding (carry out with the product spread).

(3) **Outdoor use only -** Apply the primer inside the cap and around the part of the product that will be inserted in the cap, leave to dry 24h. This operation makes the silicone adhere better.

(4) Apply the silicone gel inside the cap in the right amount that fills the empty spaces and also around the product.

(5) Remove excess gel with a finger leaving the seam and allow to harden, wear a protective glove to do this.

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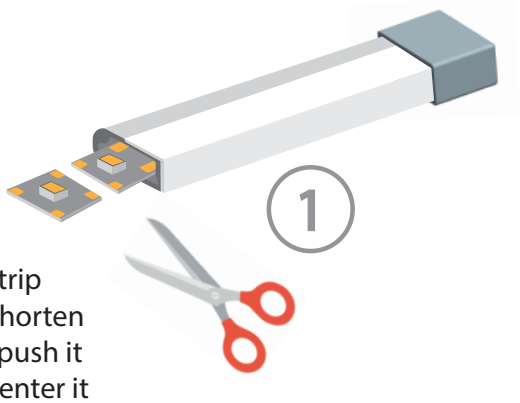
FIXING THE PRODUCT

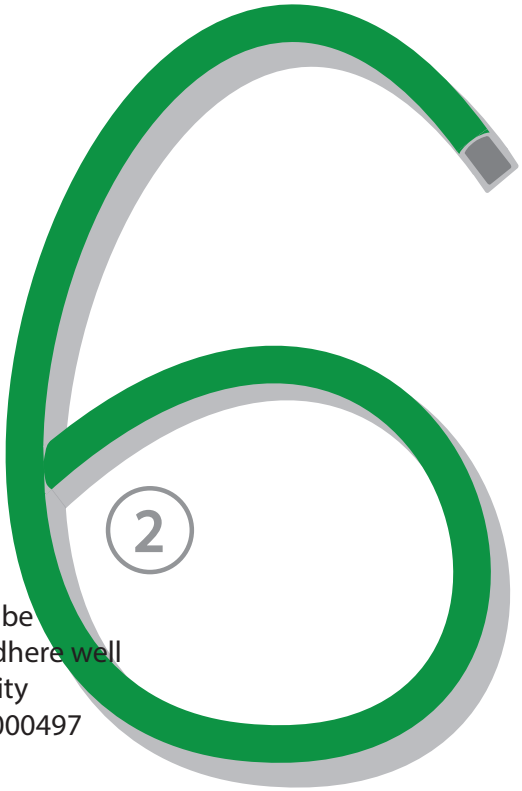
To fix the product on a flat surface, it is necessary to use polycarbonate clips, which must be fixed with screws (screws not included), taking care not to close screw too much so as not to damage the clip.

A widely used method consists in making a C-milling in a PVC or plexigless panel and inserting the product leaving the bright part in relief, possibly adding some neutral silicone points to the bottom for fixing.
This method allows you to create fantastic light shapes and light lettering with infinite font styles.

Indoor use only:
As previously mentioned, the silicone tube is independent from the strip, so for example it is possible to pull out the strip slightly and shorten it by 1 LED (8.3mm) to have more excess tube that can then be cut to shape for an aesthetic adherence.
Seal with silicone gel code HTL 000497.



Pull out the strip slightly and shorten it of 8.3 mm, push it back in and center it in the tube.



In the excess part of the silicone tube perform a shaped cut to make it adhere well maintaining the luminous continuity and seal it with silicone code HTL 000497

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