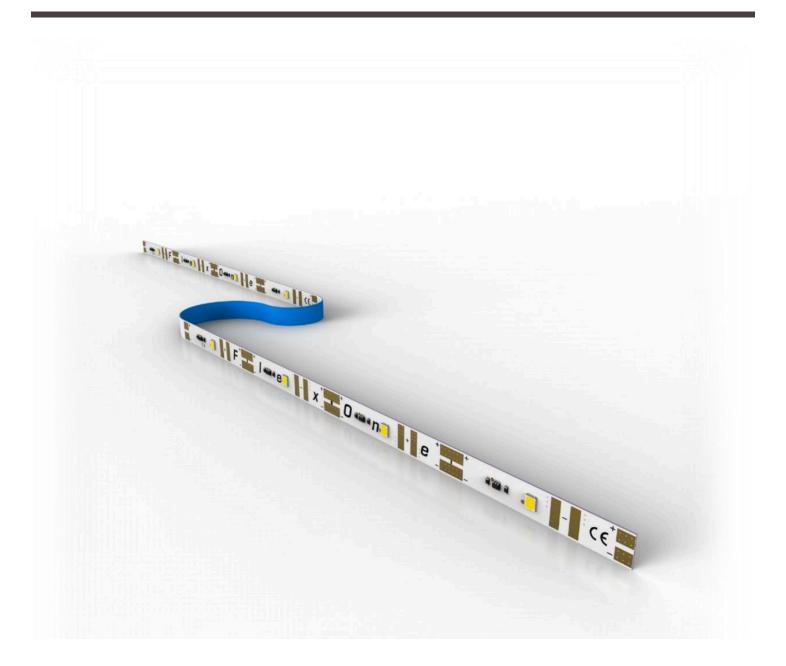


DATASHEET

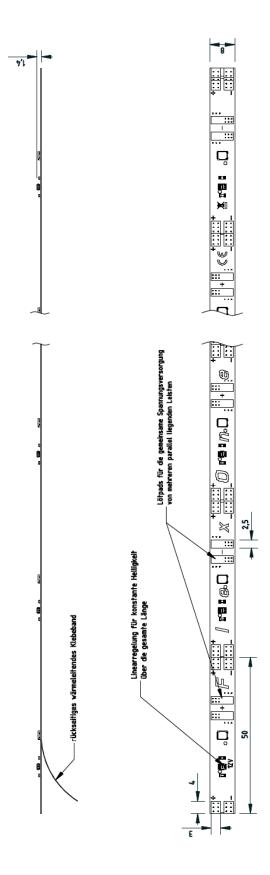
FLEXONE2080 SAMSUNG LED STRIP COLD WHITE 6500K 6640LM 12V 20 LEDS/M 5M REEL

SKU: 31649



Article number (SKU)	31649		
Product name	FlexOne2080 Samsung LED Strip cold white 6500K		
	6640lm 12V 20 LEDs/m 5m reel		
Classification	Professional	Professional	
Model identifier (equivalent models)	FlexOne100	FlexOne100	
Photometric data (at TJ = 65°C, ± 10%)			
Light color	Cold white	Cold white	
Binning	3-Step MacAdam		
Color temperature (K)	6500 K	6500 K	
Dominant wavelength (nm)	-		
Luminous flux (Im)	6640 lm	1328 lm/m	
Radiant power (mW)	-	·	
CRI (Ra)	>80	>80	
Efficiency (Im/W)	79 lm/W	79 lm/W	
Beam angle FWHP	120°	120°	
Lifetime L80B10C1 (h)	>60.000 h	>60.000 h	
Photometric code	865		
Electrical data (at TJ = 65°C, ± 10%) (reference set	ttings)		
Operating mode	Constant voltage	Constant voltage	
Voltage (V)	12 V	12 V	
Current (mA)	7000 mA	7000 mA	
Power (W)	84 W	16.8 W/m	
Standby power consumption (W)	0 W		
Dimmable	Yes		
Dimensions / Mechanical data	Metric units	Imperial units	
Length	5000 mm	196.50"	
Width	8 mm	0.314"	
Height	1.4 mm	0.055"	
Number of LEDs (pcs)	100 pcs		
Weight (g)	120 g		
Heat dissipation	Yes		
Temperatures			
Operating temperature at Tc	-40°C to +85°C		
Ambient temperature	-40°C to +50°C		
Storage temperature	-40°C to +100°C		
Approvals / Certifications			
CE / RoHS / Reach	Yes		
EN 62471 Risk group	RG1	RG1	
Energy efficiency class	F		
Mains voltage luminous efficacy (Im/W)	80 lm/W		
Version			
Date	04. Aug.2022		





3



WARRANTY INFO



This LED Strip has 5 years commercial warranty. Please refer to <u>https://www.lumistrips.com/lumistrips-en-warranty</u> for warranty terms.

MANUFACTURING INFO



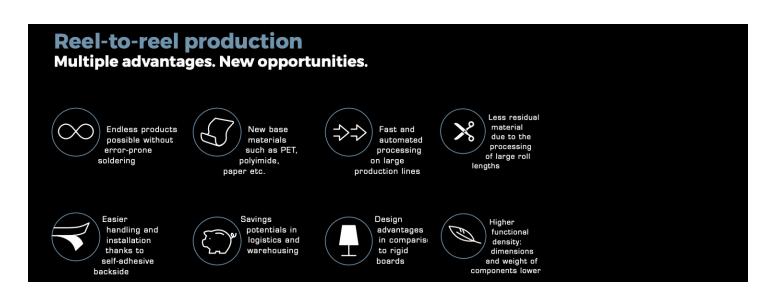


This LED strip is **made in Germany**, at a flex production line that uses the innovative manufacturing technology of plasma direct metallization, to turn flexible substrates into electrical conductive and solderable circuit boards, even those that before have not been suitable for an assembly with electronic components.





LED strip made in reel-to-reel manufacturing, a production method that offers many advantages, from delivering customs designs without the error of soldering to the use of new base materials that make new designs possible, with easier handling, installation and transportation.





Our professional LED Strips and Modules use LEDs from market leaders

We develop and produce our LED strips at a state of the art facility in Germany, with the highest quality standards and by using only LEDs from market leaders such as Nichia, Samsung or Toshiba.

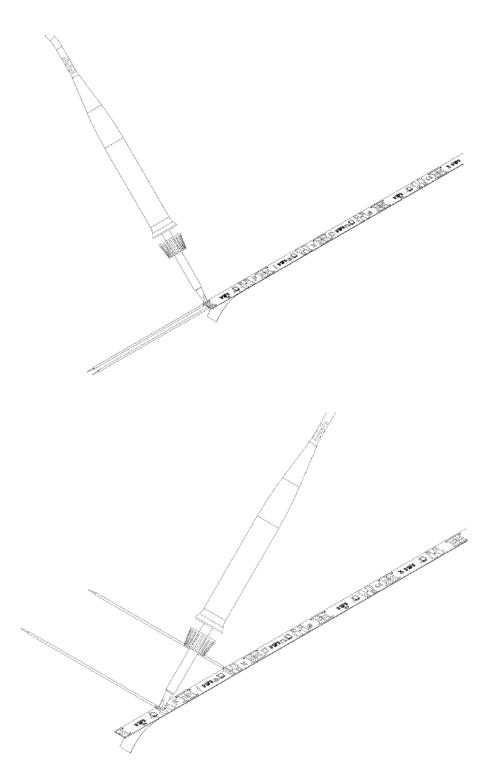
- Nichia is the LED market leader, with over 25% market share and decades of experience. Nichia researchers invented the blue and white LED production technology, also receiving the Nobel Prize for this achievement. Nichia LEDs are the most efficient (200 lm / w efficacy), durable (> 100,000 hours) and are also available with unique technologies such as Optisolis, CRI98+ natural light spectrum and RspOa, special white light for horticulture.
- **Samsung** is in the top 10 of global LED manufacturers and a well-known brand, renowned for the high performance of its products combined with the competitive price
- Toshiba is a Japanese conglomerate with a history of more than a century, now specialized in semiconductors, electronics and hardware, with nearly 20,000 employees and an annual turnover of 40 billion USD. Toshiba has built the TRI-R technology and built the LED chips used in SunLike CRI97+ LEDs produced by Seoul Semiconductor in South Korea. With the new SunLike™ TRI-R™ technology from Toshiba-SSC (Seoul Semiconductor) and our strips and modules you can always enjoy a natural light source with the light spectrum very close to the sun.
- **Seoul Semiconductor** is in the top 10 of global LED manufacturers and renowned for innovation, durability and competitive price

Our strips have high quality components and professional support:

- We use LEDs from top brands and have superior designs
- We offer professional support for lighting projects
- The PCBs use high quality materials for best resistance, current flow and heat transfer
- Performance values in this datasheet match those in real world applications
- Function perfectly at high temperatures that would destroy many other strips



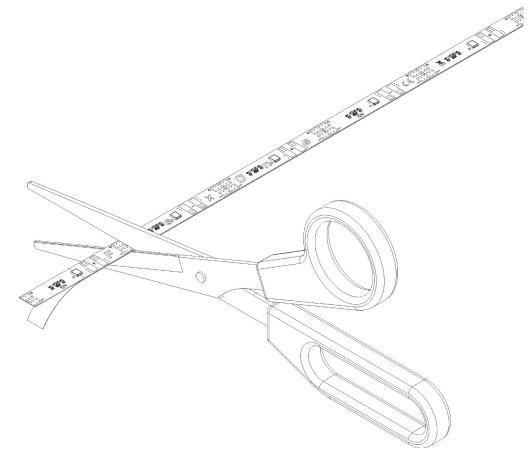
CONNECTION OF LED STRIP



The Professional LED Strips are connected via a lead connection to the connection pads provided for this purpose.

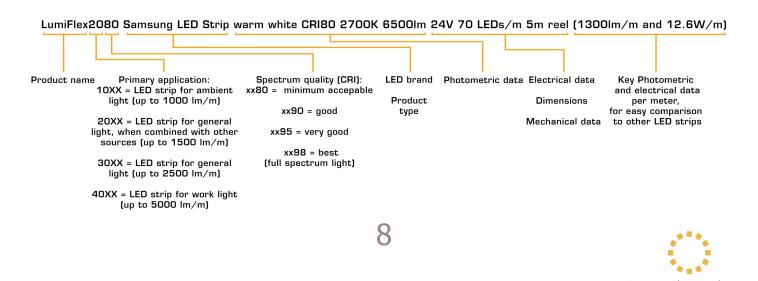


CUTTING INFO

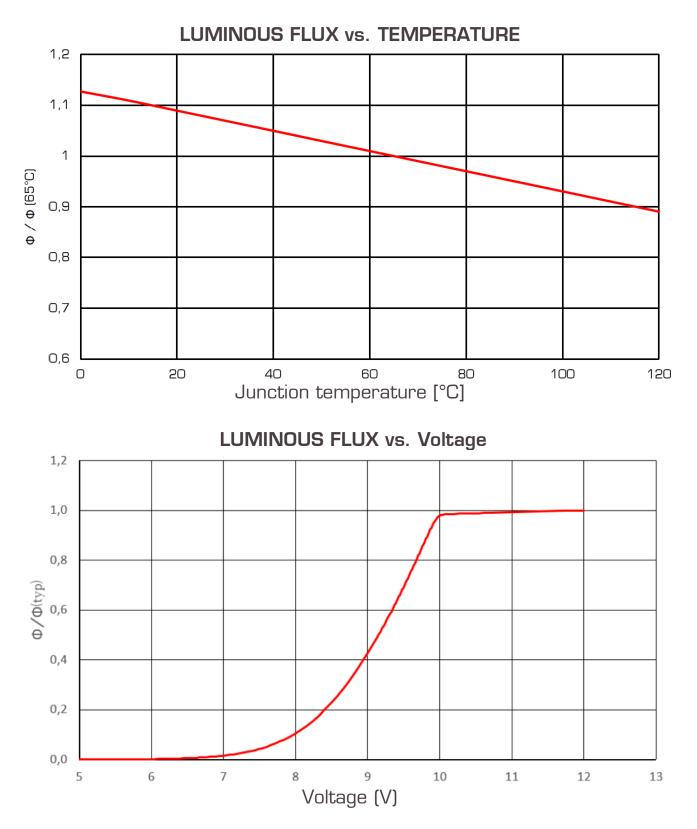


The LED strip can be separated or shortened every 50 mm. On the back of the LED strip is a double-sided heat-conducting adhesive tape, which allows installation of the LED strip. Professional LED strips can be cut with scissors.

LED STRIP PRODUCT NAME EXPLAINED



Lumistrips



Due to the special conditions in the production process of LEDs, the specified values are statistical averages. The individual LED may deviate from them.



The LED modules and all their components must not be mechanically stressed.

Avoid undue claw action, e.g. by screwing or excessive bending.

The LED modules must not come into contact with aggressive chemical substances, either in operation or in storage.

The installation of the module (with the operating device) must be carried out in compliance with all applicable electrical and safety standards.

Pay attention to standard ESD precautions when installing the modules.

- The components on the LED modules must not be subjected to mechanical stress.

- The conductive paths on the boards must not be damaged or interrupted by the installation.
- Store and operate the LED modules only at a final humidity of 10% to 60%.

Our LED modules are not protected against overload, overtemperature and short-circuit currents. To operate the modules safely and reliably, it is therefore necessary to use an electronically stabilized power supply unit in which these

in which these safety functions are already integrated. If other power supplies than the ones distributed by us are used, the following protective

the following protective measures must be ensured on the power supply side:

MINIMUM REQUIREMENTS FOR POWER SUPPLIES: Short circuit protection - Overload protection - Overtemperature protection

- The installation of LED modules may only be carried out in compliance with all applicable regulations and standards by an authorized electrician.

Distribution and reproduction of this document, utilization and communication of its contents are prohibited unless expressly permitted. Any infringement will result in compensation for damages. All rights reserved in the event of patent, utility model or design registration. We reserve the right to make technical changes.

This LED strip can be purchased via the following websites:



