# LED FLEXSTRIP

### Short Description

LED FLEXSTRIP are flexible LED tape lights fitted with a choice of TOP-LED SMD 3528, TOP LED SMD 5050, or SIDE-LED SMD 3806. They come with a choice of 30, 60, or 120 LEDs/meter (60LED/meter max for SMD5050).
The LED light strips are availbe in IP00 (dry location), IP64 (touch protection/dry location), and IP67 (wet location) for exterior applications.

The LED strips are delivered in rolls of 5m (16'5") and are fitted with a lead cable on one side.

### Application

The short distances between each LED make LED strip lights optimally suited for shallow light-boxes. Another application is the installation in u-shaped profiles in contour lighting applications. Due to their great flexibility one can also use the LED tape lights in rounds and frames of channel letters.

### Technology

The LED strip lights are operated using 12VDC constant current circuits. This allows you to cut them after each 3rd LED. 24VDC type LED strips are available on demand. These however can only be cut after each 6th LED.
The LED strips with SMD LED 5050 (except RGB) come with constant current controls. The guarantee a constant current and thus maximize the life expectancy of the LED strips.

The amperage limit of the circuitry as well as the voltage drop accross the length of the strip limits the maximum length of each strip to 16'5" (5M)

### Installation

The IP00 version of the LED strips have been fitted with double sided 3M tape and can easily be attached to fat-free appropriate surfaces such as metal and plastic. The LED strips with IP66 rating can additionally be secured mechanically using the LED tape light mounts included in the packaging.
Please note that the IP67 version of the tape lights need to be resealed around the solder pads with silicone glue in order to maintain the IP67 rating once they have been cut.

### Colors

All LED strip lights are available in warm white (3000K), cold white (6500K), red, green, and blue as standard. The SMD5050 type is also availble in RGB. Other temperatures and colors are availabe as special request.

### Dimming and Color Controls

All LED strips are both dimmable and controllable. We have a wide range of dimmers and controller on offer for this purpose ranging from remote conrtrollable, KNX/EIB bus, to even DMX controls.

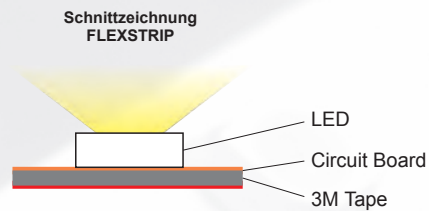All techical data subject to change without notice.

# LED FLEXSTRIP

## Ingress Protection / Beam Angle / LED Type

## IP Rating

### Schnittzeichnung FLEXSTRIP

### IP00
**open
dry location**

- LED
- Circuit Board
- 3M Tape

### IP60/64
**touch protection
dry/humid location**

- Epoxy Potting

### IP65
**touch protection
dry location
limited wet location**

- PVC hose/
  or silicone hose

### IP67
**wet location**

- Silicone hose and
  silicone potting

## Description

TOP-LED strips with an Ingress Protection of 00 are designed for **interior (dry location) applications**. They come with double sided 3M tape to make attaching them as simple as possible.
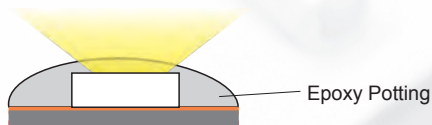
TOP-LED strips with an Ingress Protection of 60 are designed for interior applications. An expoxy resin provides protection from simple touch. They come with double sided 3M tape to make attaching them as simple as possible.
Special Form IP64: The encapsultion of the electronic components from the top with silicone provide limted suitability for exterior applications.
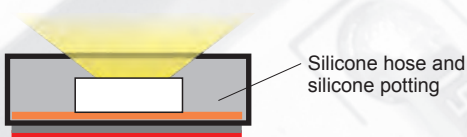
TOP-LED with an Ingress Protection rating of 65 are for indoor and, to a limited extent, exterior use. A PVC hose is used for moisture protection or against accidental contact. These tape lights are available with or without 3M tape. Easy to use mounting brackets are available.

TOP-LED strips with an Ingress Protection rating of 67 are designed for outdoor use (wet location). The LED strips are tighly sealed from all sides by a silicone hose and are thus permanently and reliably protected from environmental influences such as humidity and touch. The strips come with double sided 3M tape and mounting clips are available.

## LED Shape and Beam Angle
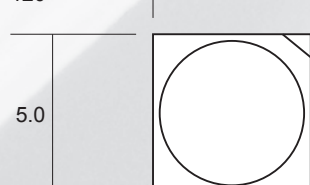
### LED SMD Size

**SMD 0335**
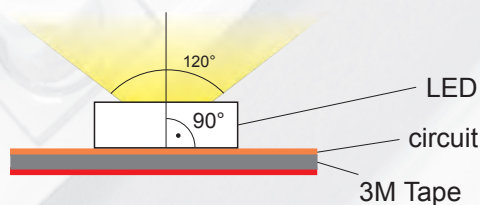0.1W
1-Chip
120°

3.5
0.3

**SMD 3528**
0.08W
1-Chip
120°

3.5
2.8

**SMD 5050**
0.24W
3-Chip
120°

5.0
5.0

### TOP LED
**90° beam from chip**
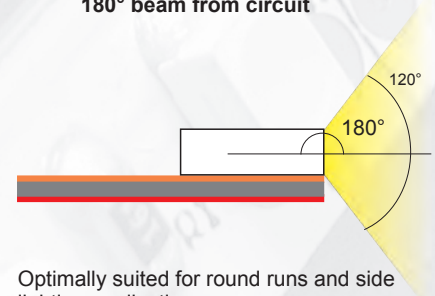
120°
90°

- LED
- circuit
- 3M Tape

The optimal solution for back lighting and streight runs. For example in aluminum profiles or light boxes.

SMD 3528
SMD 5050

### Side LED
**180° beam from circuit**

120°
180°

Optimally suited for round runs and side lighting application.

SideLED
SMD 0335

All techical data subject to change without notice.

# LED FLEXSTRIP

## Connector Systems



## Connectors for LED Strips

### Short Description
For interior applications we offer a simpel two-prong connector system that works with both the 8 and 10mm TOP LED strips. The connectors are specifically designed for the new LED tape lights with larger weld pad (all strips including the 60LED/M)

### Connector Options
The connectors are available in four variants:

**Single Connector**, for the connection of two pieces of tape
**Driver Connector,** designed to attach previously cut strips back to the LED power supply.
**Double Connector,** designed to easily connect two strips with one another. The distance between the strips can be up to 3"
**Triple Connector,** designed to easily connet three strips with one another. The distance betwenn each strip can be up to 3"

### Technical Data and Dimensions
The 2-pinn connectors are suitable for 12VDC up to 5A. The square connector measures 16mm edge to edge. The hight of the connector is 7,5mm ins compressed state. The cross-section of the the ribbon cable is 0,82 mm².

The white plastic casing has been marked with a +/- to show the direction of the polarity. The insulation of the ribbon cable has been marked with a red stripe on one of the cables to show the + connection point.

### Handeling

In order to attache the LED tape please remove approx. 1/2" of the 3M tape on the back. Then push the LED tape end into the terminal slot of the connector until it stops. Using parallel pliers press down hard on the connectors until the top is flush with the casing of the connector.

The soldering of the connections using the soldering pads should only be done by trained professionsals in order to assure a fast and safe connection.
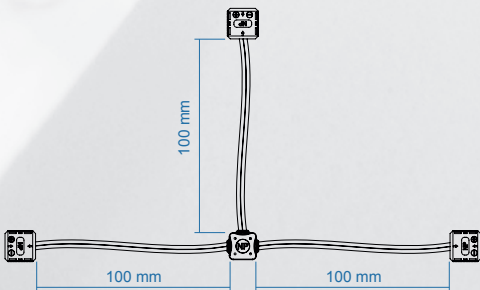






### Single Connector
7.3  16mm  15.8mm
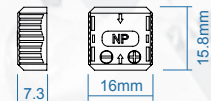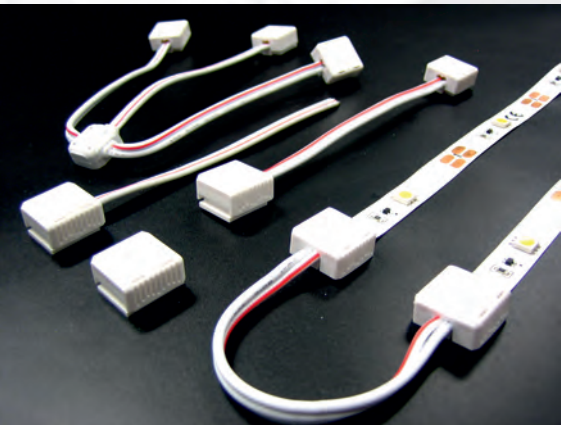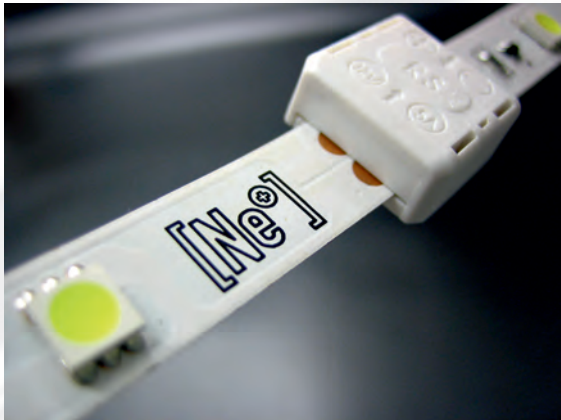
### Driver Connector
100 mm

### Double Connector
100 mm

### Triple Connector
100 mm  100 mm  100 mm

| Product No. | Description | Width | U DC | Max. Current |
|---|---|---|---|---|
| SC-12S08 | Single Connector for LED Strips | | | |
| SC-12A08 | Driver Connector for LED Strips | | | |
| SC-12D08-2 | Double Connector for LED Strips | 8mm | 12 V | 5A |
| SC-12D08-3 | Triple Connector for LED Strips | | | |
| SC-12S10 | Single Connector for LED Strips | | | |
| SC-12A10 | Driver Connector for LED Strips | | | |
| SC-12D10-2 | Double Connector for LED Strips | 10mm | 12 V | 5A |
| SC-12D10-3 | Triple Connector for LED Strips | | | |

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*Light years ahead!*

## Flexible LED Strip
## 12 V DC
**(24V DC as special order)**

# TOP LED SMD 3528

The LED strips with IP00 are for interior applicationis (dry location) and can be attached using 3M tape.
The LED strips with IP67 are for interior (dry location) as well as exterior (wet location) applications and can be attached using mounting brackets.
The LED strips with IP64 with touch and limited humidity protection are also available and within limits suited for both interior as well as exterior locations (humid location).



0.75mm² copper wire

**extra soldering pad for quick cross connections**
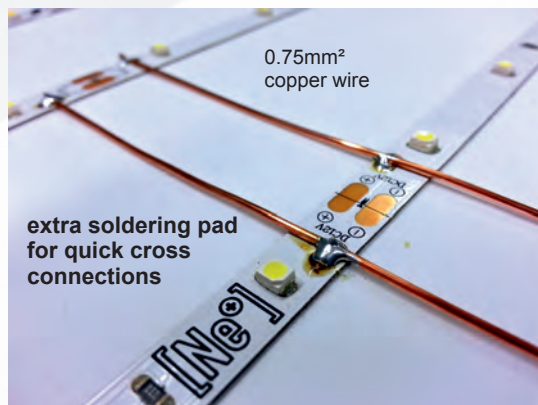


### Large Solderpads

Using LED strips to illuminate lightboxes is a very cost effective solution. However, compared to other lighting solutions it is also very time consuming.

It is especially difficult to solder the connections to the traditionally very small soldering pads of the LED tape lights. Only trained professionsal achieve reliable connections at acceptable speeds.

We therefore increased the size of the solder-pads on all SMD3528 LED strips and SMD5050 strips with up to 60 LED/m 6 fold. This lets even inexperienced personel create fast and reliable connections.

**LED Beam Angle = 120° / white PCB / Strip Length 5 m = 1 roll**

| Product No. | Ingress Protection | Qty LED | LED Distance | Cut Position | Dim. (WxH) | Power | Luminous Flux | Color | | Sales Unit | Connector Pad | Extra Pad |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FS-CL-12T60W65KS | IP00 | 60/m | 16,5mm | 50mm | 6x2,5mm | 6,0 W/m | 390 lm/m | White 6500K | W65 | 5m Roll | - | - |
| FS-CL-12T120W65KS | IP00 | 120/m | 8,3mm | 25mm | 6x2,5mm | 8,0 W/m | 650 lm/m | White 6500K | W65 | 5m Roll | - | - |
| FS-CL-12T30W30K | IP00 | 30/m | 33,3mm | 100mm | 8x2,5mm | 3,0 W/m | 180 lm/m | White 3000K | W30 | 5m Roll | X | X |
| FS-CL-12T30W65K | | | | | | | 195 lm/m | White 6500K | W65 | | | |
| FS-CL-12T60W30K | IP00 | 60/m | 16,6mm | 50mm | 8x2,5mm | 6,0 W/m | 360 lm/m | White 3000K | W30 | 5m Roll | X | - |
| FS-CL-12T60W65K | | | | | | | 390 lm/m | White 6500K | W65 | | | |
| FS-CL-12T60R | | | | | | | n.a. | Red | R | | | |
| FS-CL-12T60G | | | | | | | n.a. | Green | G | | | |
| FS-CL-12T60B | | | | | | | n.a. | Blue | B | | | |
| FS-CL-12T120W30K | IP00 | 120/m | 8,3mm | 25mm | 8x2,5mm | 9,6 W/m | 720 lm/m | White 3000K | W30 | 5m Roll | - | - |
| FS-CL-12T120W65K | | | | | | | 780 lm/m | White 6500K | W65 | | | |
| FS-IPS-CL-12T30W30K | IP67 | 30/m | 33,3mm | 100mm | 10x4,5mm | 3,0 W/m | 180 lm/m | White 3000K | W30 | 5m Roll | X | X |
| FS-IPS-CL-12T30W65K | | | | | | | 195 lm/m | White 6500K | W65 | | | |
| FS-IPS-CL-12T60W30K | IP67 | 60/m | 16,6mm | 50mm | 10x4,5mm | 6,0 W/m | 360 lm/m | White 3000K | W30 | 5m Roll | X | - |
| FS-IPS-CL-12T60W65K | | | | | | | 390 lm/m | White 6500K | W65 | | | |
| FS-IPS-CL-12T60R | | | | | | | n.a. | Red | R | | | |
| FS-IPS-CL-12T60G | | | | | | | n.a. | Green | G | | | |
| FS-IPS-CL-12T60B | | | | | | | n.a. | Blue | B | | | |
| FS-IPS-CL-12T120W30K | IP67 | 120/m | 8,3mm | 25mm | 10x4,5mm | 9,6 W/m | 720 lm/m | White 3000K | W30 | 5m Roll | - | - |
| FS-IPS-CL-12T120W65K | | | | | | | 780 lm/m | White 6500K | W65 | | | |
| FS-IPS-CL-12T120R | | | | | | | n.a. | Red | R | | | |
| FS-IPS-CL-12T120G | | | | | | | n.a. | Green | G | | | |
| FS-IPS-CL-12T120B | | | | | | | n.a. | Blue | B | | | |

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## Flexible LED Strips
## 12 V DC
 **(24V DC available on demand)**

The LED strips with IP00 are for interior applicationis (dry location) and can be attached using 3M tape.
The LED strips with IP67 are for interior (dry location) as well as exterior (wet location) applications and can be attached using mounting brackets.
The LED strips with IP64 with touch and limited humidity protection are also available and within limits suited for both interior as well as exterior locations (humid location).

# TOP LED SMD 5050

**LED Beam Angle= 120° / white PCB**

| Product No. | IP | Qty | LED Dist | Cut Pos | Dim | Power | Flux | Color | | Sales Unit | Conn | Extra |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FS-HI-12T30W30KC | IP00 | 30/m | 33,3mm | 100mm | 10x2,5mm | 7,2 W/m | 360 lm/m | White 3000K | W30 | 5m Roll | X | - |
| FS-HI-12T30W65KC | | | | | | | 390 lm/m | White 6500K | W65 | | | |
| FS-HI-12T30RGB | | | | | | | n.a. | RGB | RGB | | - | - |
| FS-HI-12T60W30KC | IP00 | 60/m | 16,6mm | 50mm | 10x2,5mm | 12,0 W/m | 720 lm/m | White 3000K | W30 | 5m Roll | X | - |
| FS-HI-12T60W65KC | | | | | | | 780 lm/m | White 6500K | W65 | | | |
| FS-HI-12T60RGB | | | | | | 14,4 W/m | n.a. | RGB | RGB | | - | - |
| FS-IPS-HI-12T30W30KC | IP67 | 30/m | 33,3mm | 100mm | 12,5x5mm | 7,2 W/m | 360 lm/m | White 3000K | W30 | 5m Roll | X | - |
| FS-IPS-HI-12T30W65KC | | | | | | | 390 lm/m | White 6500K | W65 | | | |
| FS-IPS-HI-12T30RGB | | | | | | | n.a. | RGB | RGB | | - | - |
| FS-IPS-HI-12T60W30KC | IP67 | 60/m | 16,6mm | 50mm | 12,5x5mm | 12,0 W/m | 720 lm/m | White 3000K | W30 | 5m Roll | X | - |
| FS-IPS-HI-12T60W65KC | | | | | | | 780 lm/m | White 6500K | W65 | | | |
| FS-IPS-HI-12T60RGB | | | | | | 14,4 W/m | n.a. | RGB | RGB | | - | - |

## Flexible LED Strip
## 12 V DC
 **(24V DC availbale on demand)**

# SideLED SMD 0335

The LED strips with IP00 are for interior applicationis (dry location) and can be attached using 3M tape.
The LED strips with IP65 are suitable for both interior and exterior applications and are protected by a rectangular silicone hose, without tape.
Mounting clips and end caps are included in the package

**LED Beam Angle= 120° / whitePCB / Strip Length5 m = 1 Roll**

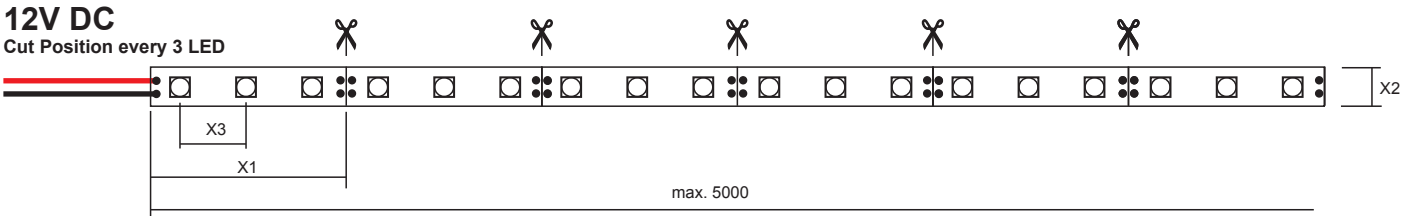| Product No. | Ingress Protection | Qty LED | LED Distance | Cut Position | Dim. (WxH) | Power | Luminous Flux | Color | | Sales Unit | Connector Pad | Extra Pad |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FS-CL-12S60W65K | IP00 | 60/m | 16,6mm | 50mm | 6x1,5mm | 4,8 W/m | 200 lm/m | White 6500K | W65 | 5m Roll | - | - |
| FS-IPT-CL-12S60W65K | IP65 | 60/m | 16,6mm | 50mm | 9x3,5mm | 4,8 W/m | 200 lm/m | White 6500K | W65 | 5m Roll | - | - |

All techical data subject to change without notice.

# LED FLEXSTRIP

**Technical Drawings**

## 12V DC
**Cut Position every 3 LED**

X3
X1
max. 5000
X2

## 24V DC
**Cut Position every 6 LED**

X3
X1
max. 5000
X2
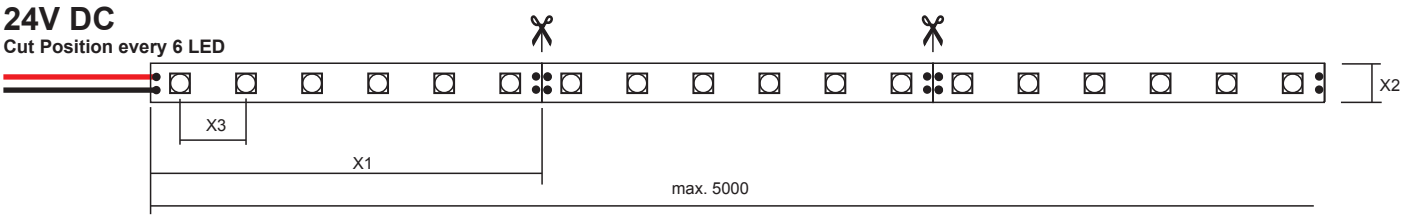
Exact dimensions are listed in table

**Endcaps**
**(included)**

12
6,5
0,75
10

actual dimensions are dependent
of the chosen product. Dimensions in mm.

**Mounting Brackets**
**(included)**

27,5
21,5
3,8
1,7
6

actual dimensions are dependent
of the chosen product.

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