

## LED Strip from inspired LED

LED Strips are adhesive backed flex circuits with 3528 LEDs evenly spaced on a reel. Cut Lengths from 500mm to 12 meters are available.

### Choice of options

#### Brightness

Super Bright – SB, 30 LEDs per 500mm length  
Normal Bright –NB, 15 LEDs per 500mm length

#### Color

Cool White – 6500K (daylight)  
Blue- 0425nm  
Red-0625nm  
Green-0565nm  
Warm White -3200K (soft white)

#### Cut Length 500mm=Qty 1

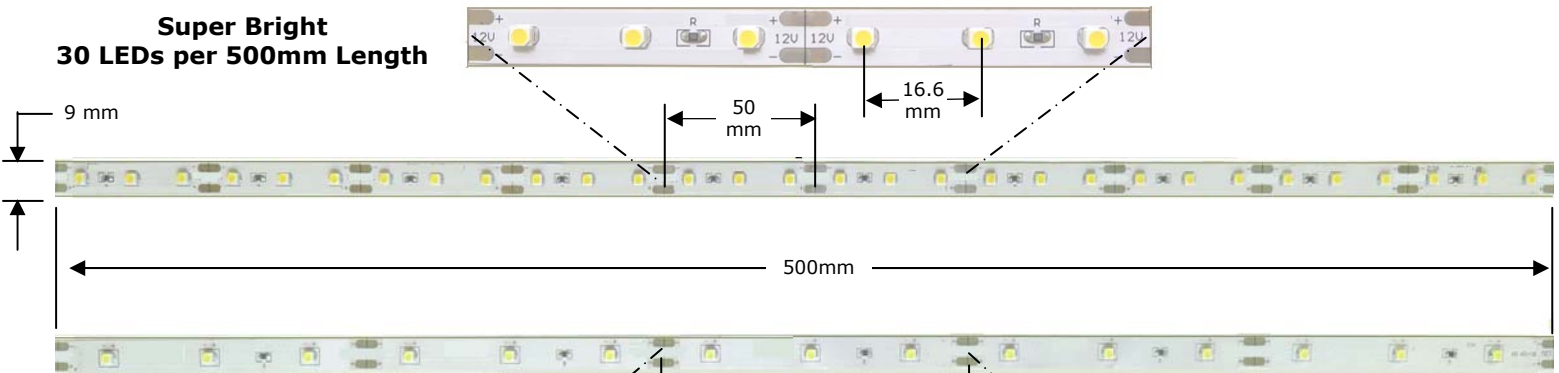
Any Length from 500mm to 12 meters, in 500mm increments. The strip can be cut at every three LEDs, allowing you to make multiple LED strips from one cut length.

### How do you buy this product

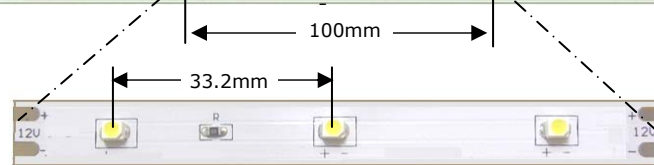
The product is on a continuous 12 meter reel, the length is determined by the quantity of 500mm sections you need. Examples;

- A backlight project requires a 12" length of flex, you purchase **1**, you get a 500mm section (19.6") you cut to length and you have some extra for the next project.
- You have a display case that requires two 4 meter strips, you purchase **16**, (16 x 500mm= 8 meters) measure and cut into two four meter strips.
- Your kitchen cabinet lighting project requires two 30" and three 18" strips,(114" or 2895mm), you purchase **6** (6x 500mm=3000mm) cut to the lengths you need.

#### Super Bright 30 LEDs per 500mm Length



#### Normal Bright 15 LEDs per 500mm Length



 Cut Lines at each 3 LEDs

### Part Number

SB = Super Bright  
NB = Normal Bright

**XX XXXX CT**

6500 = Cool White  
0425 = Blue  
0625 = Red  
0565 = Green  
3200 = Warm White

500mm  
Section of  
cut tape

**inspired LED**

## Specifications

**Power Requirement** – 12VDC per section of 3 LEDs. Each LED rated at .08W, 6.6MA.

**Flex Circuit Rating** - 4000ma. DO NOT EXCEED 4000ma FOR A CUT LENGTH OF STRIP.

**LED** – 32.x 2.8mm 120° viewing angle

Cool White - 4.1 Lumen, 6500 Kelvin

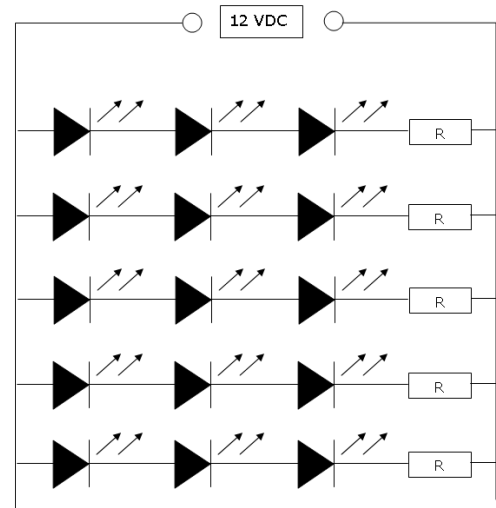
Blue – 1 Lumen, 425 nm

Red – 1.2 Lumen, 625 nm

Green – 1.2 Lumen, 565 nm

Warm White – 2.5 Lumen, 3200 Kelvin

**ASSEMBLY** – RoHS Compliant



### Super Bright Maximum Length is 10 meters, 600 LEDs

| Qty of Strips | mm    | meters | inches  | # of LEDs | ma   |
|---------------|-------|--------|---------|-----------|------|
| 1             | 500   | 0.5    | 19 1/2  | 30        | 200  |
| 2             | 1000  | 1      | 39 1/2  | 60        | 400  |
| 3             | 1500  | 1.5    | 59      | 90        | 600  |
| 4             | 2000  | 2      | 78 1/2  | 120       | 800  |
| 5             | 2500  | 2.5    | 98 1/2  | 150       | 1000 |
| 6             | 3000  | 3      | 118     | 180       | 1200 |
| 7             | 3500  | 3.5    | 138     | 210       | 1400 |
| 8             | 4000  | 4      | 157 1/2 | 240       | 1600 |
| 9             | 4500  | 4.5    | 177     | 270       | 1800 |
| 10            | 5000  | 5      | 197     | 300       | 2000 |
| 11            | 5500  | 5.5    | 216 1/2 | 330       | 2200 |
| 12            | 6000  | 6      | 236     | 360       | 2400 |
| 13            | 6500  | 6.5    | 256     | 390       | 2600 |
| 14            | 7000  | 7      | 275 1/2 | 420       | 2800 |
| 15            | 7500  | 7.5    | 295 1/2 | 450       | 3000 |
| 16            | 8000  | 8      | 315     | 480       | 3200 |
| 17            | 8500  | 8.5    | 334 1/2 | 510       | 3400 |
| 18            | 9000  | 9      | 354 1/2 | 540       | 3600 |
| 19            | 9500  | 9.5    | 374     | 570       | 3800 |
| 20            | 10000 | 10     | 393 1/2 | 600       | 4000 |
| 21            | 10500 | 10.5   | 413 1/2 | 630       | 4200 |
| 22            | 11000 | 11     | 433     | 660       | 4400 |
| 23            | 11500 | 11.5   | 453     | 690       | 4600 |
| 24            | 12000 | 12     | 472 1/2 | 720       | 4800 |

### Normal Bright Maximum Length is 12 meters, 360 LEDs

| Qty of Strips | mm    | meters | inches  | # of LEDs | ma   |
|---------------|-------|--------|---------|-----------|------|
| 1             | 500   | 0.5    | 19 2/3  | 15        | 100  |
| 2             | 1000  | 1      | 39 3/8  | 30        | 200  |
| 3             | 1500  | 1.5    | 59      | 45        | 300  |
| 4             | 2000  | 2      | 78 3/4  | 60        | 400  |
| 5             | 2500  | 2.5    | 98 3/7  | 75        | 500  |
| 6             | 3000  | 3      | 118 1/9 | 90        | 600  |
| 7             | 3500  | 3.5    | 137 4/5 | 105       | 700  |
| 8             | 4000  | 4      | 157 1/2 | 120       | 800  |
| 9             | 4500  | 4.5    | 177 1/6 | 135       | 900  |
| 10            | 5000  | 5      | 196 6/7 | 150       | 1000 |
| 11            | 5500  | 5.5    | 216 1/2 | 165       | 1100 |
| 12            | 6000  | 6      | 236 2/9 | 180       | 1200 |
| 13            | 6500  | 6.5    | 256     | 195       | 1300 |
| 14            | 7000  | 7      | 275 3/5 | 210       | 1400 |
| 15            | 7500  | 7.5    | 295 2/7 | 225       | 1500 |
| 16            | 8000  | 8      | 315     | 240       | 1600 |
| 17            | 8500  | 8.5    | 334 2/3 | 255       | 1700 |
| 18            | 9000  | 9      | 354 1/3 | 270       | 1800 |
| 19            | 9500  | 9.5    | 374     | 285       | 1900 |
| 20            | 10000 | 10     | 393 5/7 | 300       | 2000 |
| 21            | 10500 | 10.5   | 413 2/5 | 315       | 2100 |
| 22            | 11000 | 11     | 433     | 330       | 2200 |
| 23            | 11500 | 11.5   | 452 3/4 | 345       | 2300 |
| 24            | 12000 | 12     | 472 4/9 | 360       | 2400 |

**Flex Circuit Rating** - 4000ma. DO NOT EXCEED 4000ma FOR A CUT LENGTH OF STRIP

**User Note** – Voltage drop will reduce the amount of light of LEDs furthest from the power source. For lengths over 5 meters powering from the center of the strip will produce a more consistent light over the length.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Inspired LED:

|                                        |                                        |                                        |                                        |                                        |                                        |
|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| <a href="#"><u>NB-6500-0300-1C</u></a> | <a href="#"><u>NB-6500-0300-2C</u></a> | <a href="#"><u>NB-6500-0400-1C</u></a> | <a href="#"><u>NB-6500-0400-2C</u></a> | <a href="#"><u>NB-6500-0500-1C</u></a> | <a href="#"><u>NB-6500-0500-2C</u></a> |
| <a href="#"><u>NB-6500-0600-1C</u></a> | <a href="#"><u>NB-6500-0600-2C</u></a> | <a href="#"><u>NB-6500-0700-1C</u></a> | <a href="#"><u>NB-6500-0700-2C</u></a> | <a href="#"><u>NB-6500-0800-1C</u></a> | <a href="#"><u>NB-6500-0800-2C</u></a> |
| <a href="#"><u>NB-6500-0900-1C</u></a> | <a href="#"><u>NB-6500-0900-2C</u></a> | <a href="#"><u>NB-6500-1000-1C</u></a> | <a href="#"><u>NB-6500-1000-2C</u></a> | <a href="#"><u>NB-6500-1100-1C</u></a> | <a href="#"><u>NB-6500-1100-2C</u></a> |
| <a href="#"><u>NB-6500-1200-1C</u></a> | <a href="#"><u>NB-6500-1200-2C</u></a> | <a href="#"><u>NB-6500-1300-1C</u></a> | <a href="#"><u>NB-6500-1300-2C</u></a> | <a href="#"><u>NB-6500-1400-1C</u></a> | <a href="#"><u>NB-6500-1400-2C</u></a> |
| <a href="#"><u>NB-6500-1500-1C</u></a> | <a href="#"><u>NB-6500-1500-2C</u></a> | <a href="#"><u>NB-6500-1600-1C</u></a> | <a href="#"><u>NB-6500-1600-2C</u></a> | <a href="#"><u>NB-6500-1700-1C</u></a> | <a href="#"><u>NB-6500-1700-2C</u></a> |
| <a href="#"><u>NB-6500-1800-1C</u></a> | <a href="#"><u>NB-6500-1800-2C</u></a> | <a href="#"><u>NB-6500-1900-1C</u></a> | <a href="#"><u>NB-6500-1900-2C</u></a> | <a href="#"><u>NB-6500-2000-1C</u></a> | <a href="#"><u>NB-6500-2000-2C</u></a> |
| <a href="#"><u>NB-6500-2100-1C</u></a> | <a href="#"><u>NB-6500-2100-2C</u></a> | <a href="#"><u>NB-6500-2200-1C</u></a> | <a href="#"><u>NB-6500-2200-2C</u></a> | <a href="#"><u>NB-6500-2300-1C</u></a> | <a href="#"><u>NB-6500-2300-2C</u></a> |
| <a href="#"><u>NB-6500-2400-1C</u></a> | <a href="#"><u>NB-6500-2400-2C</u></a> | <a href="#"><u>NB-6500-2500-1C</u></a> | <a href="#"><u>NB-6500-2500-2C</u></a> | <a href="#"><u>NB-6500-2600-1C</u></a> | <a href="#"><u>NB-6500-2600-2C</u></a> |
| <a href="#"><u>NB-6500-2700-1C</u></a> | <a href="#"><u>NB-6500-2700-2C</u></a> | <a href="#"><u>NB-6500-2800-1C</u></a> | <a href="#"><u>NB-6500-2800-2C</u></a> | <a href="#"><u>NB-6500-2900-1C</u></a> | <a href="#"><u>NB-6500-2900-2C</u></a> |
| <a href="#"><u>NB-6500-3000-1C</u></a> | <a href="#"><u>NB-6500-3000-2C</u></a> | <a href="#"><u>NB-6500-3100-1C</u></a> | <a href="#"><u>NB-6500-3100-2C</u></a> | <a href="#"><u>NB-6500-3200-1C</u></a> | <a href="#"><u>NB-6500-3200-2C</u></a> |
| <a href="#"><u>NB-6500-3300-1C</u></a> | <a href="#"><u>NB-6500-3300-2C</u></a> | <a href="#"><u>NB-6500-3400-1C</u></a> | <a href="#"><u>NB-6500-3400-2C</u></a> | <a href="#"><u>NB-6500-3500-1C</u></a> | <a href="#"><u>NB-6500-3500-2C</u></a> |
| <a href="#"><u>NB-6500-3600-1C</u></a> | <a href="#"><u>NB-6500-3600-2C</u></a> | <a href="#"><u>NB-6500-3700-1C</u></a> | <a href="#"><u>NB-6500-3700-2C</u></a> | <a href="#"><u>NB-6500-3800-1C</u></a> | <a href="#"><u>NB-6500-3800-2C</u></a> |
| <a href="#"><u>NB-6500-3900-1C</u></a> | <a href="#"><u>NB-6500-3900-2C</u></a> | <a href="#"><u>NB-6500-4000-1C</u></a> | <a href="#"><u>NB-6500-4000-2C</u></a> | <a href="#"><u>NB-6500-4100-1C</u></a> | <a href="#"><u>NB-6500-4100-2C</u></a> |
| <a href="#"><u>NB-6500-4200-1C</u></a> | <a href="#"><u>NB-6500-4200-2C</u></a> | <a href="#"><u>NB-6500-4300-1C</u></a> | <a href="#"><u>NB-6500-4300-2C</u></a> | <a href="#"><u>NB-6500-4400-1C</u></a> | <a href="#"><u>NB-6500-4400-2C</u></a> |
| <a href="#"><u>NB-6500-4500-1C</u></a> | <a href="#"><u>NB-6500-4500-2C</u></a> | <a href="#"><u>NB-6500-4600-1C</u></a> | <a href="#"><u>NB-6500-4600-2C</u></a> | <a href="#"><u>NB-6500-4700-1C</u></a> | <a href="#"><u>NB-6500-4700-2C</u></a> |
| <a href="#"><u>NB-6500-4800-1C</u></a> | <a href="#"><u>NB-6500-4800-2C</u></a> | <a href="#"><u>NB-6500-4900-1C</u></a> | <a href="#"><u>NB-6500-4900-2C</u></a> | <a href="#"><u>NB-6500-5000-1C</u></a> | <a href="#"><u>NB-6500-5000-2C</u></a> |
| <a href="#"><u>NB-6500-5100-1C</u></a> | <a href="#"><u>NB-6500-5100-2C</u></a> | <a href="#"><u>NB-6500-5200-1C</u></a> | <a href="#"><u>NB-6500-5200-2C</u></a> |                                        |                                        |