



## Bongo R – IP68

Product number: 11131

### BONGO R FLEXIBLE WATER RESISTANT LED STRIP – SINGLE COLOR SMD3528 60LED P/M

The Bongo R LED strip from Colorgetix Colorlines series is a flexible LED strip with a capacity of 4,8W per meter. The LED lighting strip has a voltage of 24v DC. The Bongo R LED strip is a solid LED lighting strip and therefore a popular LED strip from the Colorlines series.

### COLORGETIX COLORLINES BONGO R WATER RESISTANT LED STRIP

The Bongo R LED strip has an IP standard of IP68. The strip is entirely closed off, safe to touch and offers full protection against dust. De Bongo R LED strip is water resistant and stays operational under water within the designated circumstances. There are 60 type SMD3528 LEDs per meter. For perfect measurement, the LED strip can be cut after every 10 cm. Colorgetix offers the possibility to solder the LED strip to a preferred size.

### MOUNTING COLORGETIX COLORLINES BONGO R LED STRIP

To attach the Colorgetix Bongo R LED strip, you only have to remove the 3M layer on the backside of the LED strip. Make sure the surface is free of grease and dust, in order to attach the LED strip properly. When placing the LED strip, make sure to carefully put pressure on the LED strip so no damage is caused to the LED lights. If needed, Colorgetix can deliver special LED placement profiles, which gives even more possibilities in attaching LED strips.

### DIMMING COLORGETIX COLORLINES BONGO R LED STRIP

It is also possible to dim the Colorgetix Colorlines Bongo R LED strip. To choose your ideal illumination level, you can connect the LED strip to the Colorgetix LED dimming Colorcontroller Gallo 0-10 v 1 x 8A 5-24 volts DC and an Alce LED dimming Colorcontroller 12-24 volts DC 8A. The Bongo R LED strip is controllable with every 0-10 volts potentiometer. To connect the Bongo R LED strip, a LED driver from the Colordriver series is needed. The right Colorgetix Colordriver for LED lighting depends on the length of the LED strip in meters, and the amount of watts per meter on the LED strip; *The length of the LED strip in meters x The amount of watts per meter = The necessary watts for the driver.* Caution! Always add an extra 10% to the amount of watts needed, there is no maximum amount of watts allowed, but the driver may never have a too low operating capacity. Colorgetix can deliver the LED strip in a plug & play manner.

### WARRANTY

ColorGetix pays the utmost attention to its products, which quality is constantly monitored. Our products have a long life, but how small the chance is, it can always happen that a product fails. For products that do not seem to work, by manufacturing faults or because of us, we will provide a replacement product within the warranty period. If the product stops working due to improper use and we have come to remedy the problems, then we are forced to make charges. ColorGetix not be liable for any consequential damages.

## Specifications

|                               |                      |
|-------------------------------|----------------------|
| <b>Capacity:</b>              | 4,8 W per meter      |
| <b>Type of LED:</b>           | SMD3528              |
| <b>Amount of LED's:</b>       | 60 per meter         |
| <b>Beam angle:</b>            | 120 °                |
| <b>Shortest cut distance:</b> | 10 cm                |
| <b>IP Norm:</b>               | IP 68                |
| <b>Ampère (max):</b>          | 0.2 Ampère per meter |
| <b>Voltage:</b>               | 24V DC               |
| <b>Maximum to connect:</b>    | 5 Ampère             |
| <b>Length:</b>                | Role 5 meter         |
| <b>Width:</b>                 | 8 mm                 |
| <b>Height:</b>                | 5 mm                 |



| 24 Volt          |        | Cable inner conductor<br>1.5mm <sup>2</sup> |    |    |    |     | Cable inner conductor<br>2.5mm <sup>2</sup> |     |     |     |     | Cable inner conductor<br>4mm <sup>2</sup> |     |     |     |     |
|------------------|--------|---------------------------------------------|----|----|----|-----|---------------------------------------------|-----|-----|-----|-----|-------------------------------------------|-----|-----|-----|-----|
| Watt             |        | 24                                          | 48 | 72 | 96 | 120 | 144                                         | 168 | 192 | 216 | 240 | 264                                       | 288 | 312 | 336 | 360 |
| Cable length (m) | Ampère | 1                                           | 2  | 3  | 4  | 5   | 6                                           | 7   | 8   | 9   | 10  | 11                                        | 12  | 13  | 14  | 15  |
| 1                |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 2                |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 3                |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 4                |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 5                |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 6                |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 7                |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 8                |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 9                |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 10               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 11               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 12               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 13               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 14               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 15               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 16               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 17               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 18               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 19               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 20               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 21               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 22               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 23               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 24               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 25               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 26               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 27               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 28               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 29               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 30               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 31               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 32               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 33               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 34               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 35               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 36               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 37               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 38               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 39               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 40               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 41               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 42               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 43               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 44               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 45               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 46               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 47               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 48               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 49               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |
| 50               |        |                                             |    |    |    |     |                                             |     |     |     |     |                                           |     |     |     |     |



This table is a recommendation for the cable guide surface ( MM<sup>2</sup> ) with cable lengths of 1-50 m. For 24 Volt LED connected in parallel fixtures ( voltage controlled ). Note that this table is a recommendation, accountability is at all times for the installing person.  
If necessary, use the law of Pouillet, (  $A \times R = p \times l$  ) the calculation of electrical conductivity and resistance.

Keep as much as possible the shortest way for 24Volt cables.  
Transformer capacity must be 10% higher than the sum of taxes.

When using this table always handle full power ( wattage ).  
So assuming that all the LEDs light up fully to the strips.

$$P = U \times I$$

( Power = voltage ( 24 volts ) times the current )

P ( Watts ) = U ( voltage ) times I ( ampere )