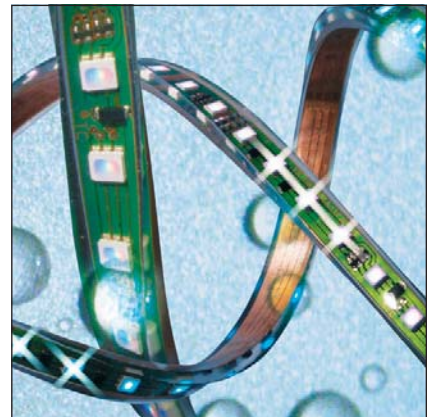
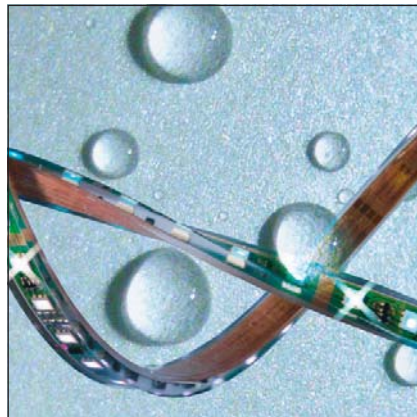
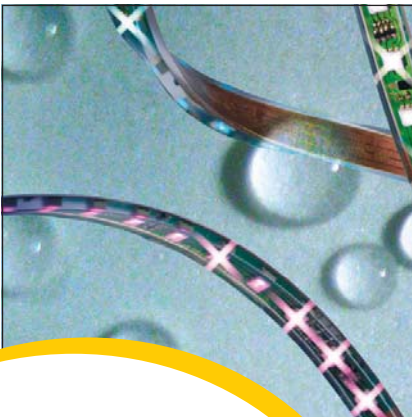




A New Lighting Experience



- extremely flexible line module with SMD LED
- protected against high moisture: IP67
- colour mixing due to RGB SMDs
- low mounting height
- low heat development
- lead-free soldered
- self-adhesive rear side

## LEDLine Flex SMD RGB2 Outdoor

### WU-M-266-RGB2-Outdoor

#### Typical Applications

- Illumination of complex structures with high moisture or dust burden
- Outdoor marking of paths, stairs, etc.
- Outdoor light advertising
- Outdoor entertainment, shop design, architectural illumination
- Outdoor boarder lighting

#### Vossloh-Schwabe Deutschland GmbH

Hohe Steinert 8 · 58509 Lüdenscheid, Germany · Phone: +49 (0) 23 51/101-0  
Fax: +49 (0) 23 51/101-217 + -384 · [www.vossloh-schwabe.com](http://www.vossloh-schwabe.com)

# LEDLine Flex SMD RGB2 Outdoor

## Technical Notes

- PCB dimensions: 171 x 10 mm, 855 x 10 mm, 1710 x 10 mm  
Encapsulated dimensions (see tech. Drawing)  
PCB 171 mm: A= 177 mm  $\pm 0.5$   
PCB 855 mm: A= 861 mm  $\pm 0.5$   
PCB 1710 mm: A= 1716 mm  $\pm 0.5$
- IP classification: IP67
- Pre-assembled with 4 strands on both sides
- Voltage supply: 24 V DC

## Electrical Characteristics

at ambient temperature  $t_a = 25\text{ }^\circ\text{C}$

Type	Ref. No.	Colour	Number of SMDs	Current *(A)			Max. power consumption* (W)		
				Red	Green	Blue	Red	Green	Blue
WU-M-266-RGB2-Outdoor 171mm	<b>545417</b>	RGB	10	0.02	0.04	0.04	0.48	0.96	0.96
WU-M-266-RGB2-Outdoor 855mm	<b>545418</b>	RGB	50	0.10	0.20	0.20	2.40	4.80	4.80
WU-M-266-RGB2-Outdoor 1710mm	<b>545419</b>	RGB	100	0.20	0.40	0.40	4.80	9.60	9.60

## Maximum Ratings

Exceeding the maximum ratings can lead to reduction of lifetime or destruction of the module.

Type	Voltage DC		Ambient temperature range for operation		Storage temperature range		Handling temperature range		Reverse voltage/LED V
	V min.	V max.	$^\circ\text{C}$ min.	$^\circ\text{C}$ max.	$^\circ\text{C}$ min.	$^\circ\text{C}$ max.	$^\circ\text{C}$ min.	$^\circ\text{C}$ max.	
All types	23	25	-20	+50	-40	+85	+10	+50	5

## Optical Characteristics

at ambient temperature  $t_a = 25\text{ }^\circ\text{C}$

Type	Ref. No.	Colour	Dom. wavelength* (nm)			Max. luminous flux* (lm)			Radiation angle* $^\circ$
			Red	Green	Blue	Red	Green	Blue	
WU-M-266-RGB2-Outdoor 171mm	<b>545417</b>	RGB	624	528	467	22	36	8	110
WU-M-266-RGB2-Outdoor 855mm	<b>545418</b>	RGB	624	528	467	110	180	40	110
WU-M-266-RGB2-Outdoor 1710mm	<b>545419</b>	RGB	624	528	467	220	360	80	110

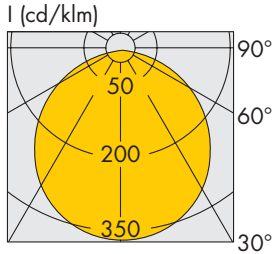
\* On account of the complex manufacturing process of the modules the above values only represent statistical variables.

The values do not necessarily correspond exactly to the actual parameters of every single product which can vary from the typical specification.

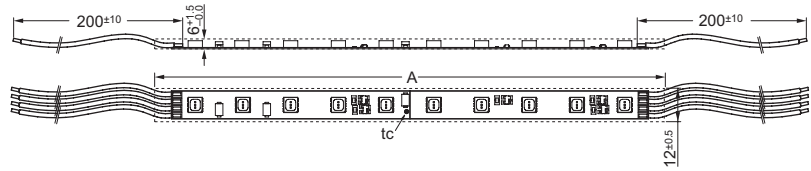
The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification. Please find further detailed information at [www.vs-optoelectronic.com](http://www.vs-optoelectronic.com).

# LEDLine Flex SMD RGB2 Outdoor

## Light Distribution Curves



## Mechanical Dimensions



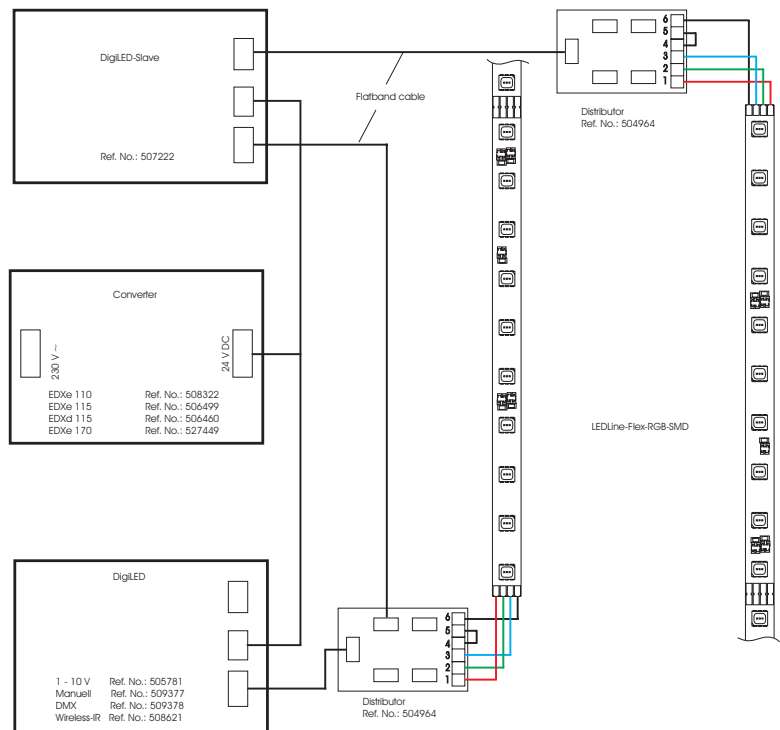
## Interconnection Option

The VS Optoelectronic DigiLED controllers could be used for colour control of the LEDLine Flex SMD RGB Outdoor.

Necessary components:

- Converter
- DigiLED
- Flatband cable
- Distributor
- 4 strands connection

To increase the number of the LEDLine Flex SMD RGB Outdoor at one DigiLED a DigiLED Slave can be used. Further information about the connection technique and the different functions of the DigiLEDs can be found in the DigiLED manuals under [www.vs-optoelectronic.com](http://www.vs-optoelectronic.com).



# LEDLine Flex SMD RGB2 Outdoor

## Assembly and Safety Information

- LEDLine Flex SMD RGB Outdoor must not be operated in rolled-up condition.
- The circuit path must not be damaged or interrupted.
- Power supply units must be used for operation, in which the following protective measures are ensured:
  - Short-circuit protection
  - Overload protection
  - Overheating protection
  - SELV equiv. (Safety Extra Low Voltage)
- Please ensure the correct polarity of the leads prior to commissioning. Reversed polarity can destroy the modules.
- The maximum output of the power supply must be observed.
- Please ensure standard ESD (electrostatic discharge) protection measures are employed when handling and installing LED modules. Electrostatic discharge can damage LEDs.
- The separation of the LEDLine Flex SMD RGB Outdoor is possible through carefully cutting by means of scissors after 171 mm. After cutting, the IP-classification is not guaranteed furthermore.
- An adhesive foil is furnished on the back side of the LEDLine Flex SMD Outdoor modules for easy mounting. The non-aging and UV stable glue can be used for outdoor applications on smooth and rugged surfaces. Please ensure adhesive pads or other products with adhesive areas are only used on dry and clean surfaces that are free of grease, oil, silicone and dirt particles. Owing to the varying application options and different types of surface as well as ambient conditions, VS accepts no liability for the quality of the adhesive bond achieved when mounting these products. If necessary use additional fixing for installation.
- The product must be stored no longer than 12 months (in packed condition) at approx. 20 °C and at up to 50 % relative humidity in order to ensure optimal bonding of the back side.
- The LEDLine Flex SMD RGB Outdoor is pre-assembled with 4 strands of 200 mm on both sides. Avoid short circuits.
- A minimum bending radius is not to fall short of 50 mm during the installation. The bending is only allowed lengthwise. A bending in cross direction can destroy the module.
- LEDLine Flex modules must be mounted on a firm, permanent surface. To prevent damage due to bending, LEDLine Flex modules must not be stuck to flexible substrates.
- The installation/handling of the LEDLine Flex SMD RGB Outdoor or the bending is only allowed at a module temperature of 10 °C to 50 °C.