



## Product Data Sheet

LED pásek

**LED Strip 12V 60LED/m**  
**SMD3528 6000K IP20**  
**4,8W/m**



Order number

**903003029**

Unit EAN13 code

**8595209922298**

### General information

Model/Description	<b>Led pásek ohebný</b>
Finish	<b>Vnitřní</b>
Brand/Manufacturer	<b>NBB</b>
Material	<b>PCB</b>
Nominal service life (h)	<b>25000 h</b>
Degree of protection (IP)	<b>IP20</b>
Colour	<b>bílá</b>
Model	<b>Pásek</b>
Dimmable	<b>Ano</b>
Lamp voltage (V)	<b>12 V</b>
Self-adhesive	<b>Ano</b>
Nominal voltage (V)	<b>12 V</b>
Lowest bending radius	<b>10 mm</b>
Lamp power per meter	<b>4,8 W</b>
Length of particular segments	<b>50 mm</b>
With connection set	<b>Ne</b>
With end piece	<b>Ne</b>
Dimmable by conventional dimmers	<b>Ne</b>
Název položky	<b>LED pásek 12V 60LED/m SMD3528 6000K IP20 4.8W/m</b>

### Electrical characteristics

Nominal wattage	<b>24 W</b>
Rated power (W)	<b>24,0 W</b>
Compatible ballast	<b>CV 12V</b>
Operating voltage (V)	<b>11 - 12 V</b>

Type of Voltage	DC
Direct connection to the mains	Ne
Voltage type	DC
Nominal current (A)	2 A

#### Working conditions

Dimmable range	%
Maximum permitted storage temperature	80 °C
Burning position	
Application	Dekorativní osvětlování
Suitable for frequent switching	Ano
Ambient temperature	°C
Fire resistance "F"	
Driver included	
Maximum ambient operating temperature - Ta	40 °C

#### Mounting methods/application

Mounting method	Montáž na kovový chladič/nutné zajistit adekvátní chlazení!
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#### Physical characteristics

Type of chip	SMD 3528
Dimensions (mm)	8x5000 mm
Packing method	5 - 1
Weight gross	75 g
Width	8 mm
Height	2 mm
Weight netto	68 g
Length	5000 mm
Number of LEDs	300
Number of lamps per meter	60

#### EuP Parameters

Average Lifetime B50 (h)	25000 h
Luminescence Life maintenance factor	70,0 %
Factor of functional reliability (LSF) after nom. life	50,0 %
Equivalent to fluo.lamp (W)	W
Time to 60 % luminous flux	30 s
Number of maximal switching cycles	>50000
The rate of premature failures	0,1 %
Colour difference	80,0 %
The light source is designed for outdoor and industrial use	
Rated service life	25000 h
Energy consumption (AGGR)	26,2 kWh/1000h
Equivalent linear fluorescent	W
Equivalent compact fluorescent lamps	W
Equivalent mercury lamp	W
Turn-on time	<0,3 s

GLS replacement	W
Φ 90°	lm

### Lighting characteristics

Color rendering	
Light Colour	chladná denní
Wavelength range	nm
Dominant wavelength	444 nm
Luminous flux	2400 lm
Colour temperature	6000 K
Radiation angle	120 °
Colour rendering index CRI	70 Ra
Colour of light	760
Colour temperature	6000 - 6500 K
Chromaticity coordinates x	0,3209
Chromaticity coordinates y	0,3322

### Safety information

Insulation class	Třída III.
Safety instructions	www.nbb.cz

### Environmental characteristics

Mercury content	0,00 mg
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### Energetic characteristics

Lamp Power factor (PF)	
Rated efficiency after 100h	99.99 %
Lamp efficacy	100 lm/W

### Exclusion of liability

Changes to data are subject to prior notice. NBB Bohemia s.r.o. accepts no responsibility for damages caused by inaccurate interpretation of the content on this site.

### Notice

Under the scope of Act 185/2001 Coll. as amended, this product is included in waste group 5 (light sources and luminaires). In view of the harmful effects of mercury on the environment and on human health, the creators of group 5 waste (consumers) are obliged to dispose of used light sources for recycling. Do not throw this product into mixed waste after use. Take it to the nearest store, collection yard, or other designated location for free recycling. You can also dispose of the used products for recycling in our sales outlets or in collection points of collective recycling systems or municipal collection yards. Ecological recycling of waste electrical and electronic equipment is ensured through the RETELA collective system ([www.retela.cz](http://www.retela.cz)).

### Warning

LED light sources must be operated so that they do not overheat. Overheating the light source may cause it to destroy or ignite. It is forbidden to connect the LED tapes wound onto the spool to voltage, there is a risk of fire! LED lamps without an integrated ballast may be operated on an electronic driver or other power supply that meets the supply conditions. It is necessary to observe the principles of power supply in the sense that some LED light sources are supplied with stabilized voltage and some stabilized current. Using an inappropriate power supply can damage the light source LED. NBB Bohemia is not responsible for defects in light sources caused by inappropriate power supply. In the case of LED strips with a higher power than 10W / m, it is not permissible to couple several strips in series. In this case, the LED strip at the connection point will become overheated and will be destroyed.

For powerful LED strips at higher power than 10W / m, adequate cooling is required. When designing cooling, the ambient

temperatures must be taken into account. Powerful high-performance tapes with silicone or resin castings are not designed for continuous operation, as their cooling is problematic even when installed in aluminum bars that improve cooling. The company that manufactures powerful LED tapes has to design a cooling and operating time to make the tapes cool down. In the event that the tapes are destroyed by overheating, we will not be responsible for the damage caused.

#### **Notice**

Single LED chip failure, luminous flux deviation +/- 10% as well as chromaticity deviation +/- 150K are in compliance with applicable standards and are not a reason for complaint.

#### **Popis**

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