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#### PCB TW 2200-3500K 3400

The liniLED® PCB liniLED® PCB TW 2200-3500K 3400 G5 (IP00) is a high quality, flexible LED strip equipped with 3M adhesive tape. Thanks to its small dimensions the PCB LED strip is ideal for usage in small (indoor) spaces.

In order to power liniLED® products safely, it is necessary to operate them with an electronically stabilized power supply protected against short circuits, overload and overheating.

To ease the luminaire/installation approval, electronic control gear for liniLED® products should carry the CE mark. Preferably a controller from the liniLED® Control range. In Europe, the declarations of conformity must include the following standards: CE: EN 55015, IEC 61547 and IEC 61000-3-2.

For the latest version of this datasheet, visit our website: www.triolight.com

# USPs

Up to 2 SDCM ellipse
Extra long lifetime – 60,000 h (L90/B10)
Internal constant current regulator
Excellent lumen/Watt ratio
Single piece reel-to-reel technology
Made in Europe

#### Colour

Colour

TW 2200-3500K

Description

liniLED® PCB TW 2200-3500K 3400 G5























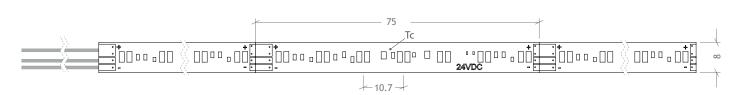


# **Technical specifications**

	liniLED® PCB TW 2200-3500K 3400 G5
Product Code	23204
Power @ 24V DC	34.7 W/m
Power @ 25V DC	36.1 W/m
CCT¹	TW 2200-3500K
CRI	90
Luminous flux <sup>1</sup>	3400 lum/m
Luminous efficiency <sup>1</sup>	98 lum/W
Spool length	3 m
Section length	75 mm
Number of LEDs/m	187
Max. connection length	3 m
Min. operating voltage	23V DC
Max. operating voltage	25V DC
Beam angle	120°
Dimensions (W x H )	8 x 1.4 mm
Dimmable	PWM dimmable
MacAdam Steps	≤3
Expected lifetime	L90/B10 > 60,000 hrs @ Tc = 57°C
Ingress protection	IP00
Storage temperature	-40 85°C
Operating temperature <sup>2</sup>	45
Minimum bending radius	20 mm
CCT Warm White	2200K
Power 2200K	19.1 W/m
Flux 2200K	1700 lum/m
CCT Cold White	3500K
Power 3500K	15.6 W/m
Flux 3500K	1700 lum/m

 $<sup>^1</sup>$  Typical values are given, which due to tolerances in components and production process can vary up to 10%.  $^2$  Max. connection length between -30°C and -20°C is 1.05 m.  $^3$  Both channels @ 100% = 2753K.

## **Technical drawings**





## Maximum cable length

- 1 = Select colour temperature.
- 2 = Select LED strip length.
- 3 = Select output voltage.
- **4** = Select cable cross section.

**Result** = Maximum cable length based on the cable thickness and power supply voltage.

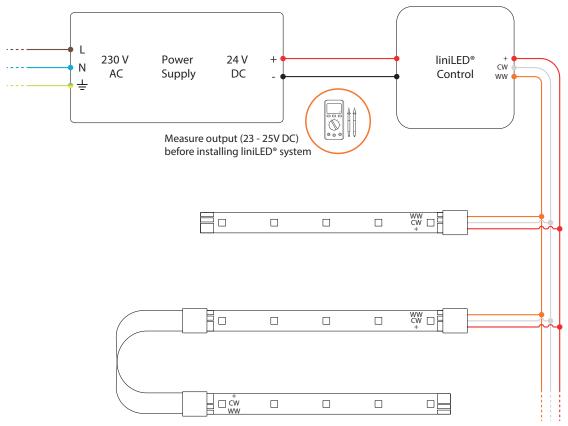


### 1. Colour temperature

2. LED strip length		1 m		2 m		3 m		5 m		9 m	
3. Voltage		24 V DC	25 V DC								
4. Cable cross section	0.50 mm <sup>2</sup> - 0.035 Ω/m	10.2 m	20.8 m	4.5 m	9.8 m	2.6 m	6.1 m	N/A	N/A	N/A	N/A
	0.75 mm <sup>2</sup> - 0.023 Ω/m	15.4 m	31.4 m	6.7 m	14.7 m	3.9 m	9.2 m	N/A	N/A	N/A	N/A
	1.00 mm² - 0.018 Ω/m	20.5 m	41.7 m	9.0 m	19.6 m	5.1 m	12.2 m	N/A	N/A	N/A	N/A
	1.50 mm <sup>2</sup> - 0.012 Ω/m	30.8 m	62.7 m	13.5 m	29.4 m	7.7 m	18.3 m	N/A	N/A	N/A	N/A
	2.50 mm <sup>2</sup> - 0.007 Ω/m	51.3 m	104.4 m	22.4 m	49.0 m	12.8 m	30.5 m	N/A	N/A	N/A	N/A

⚠ Note: Calculations are based on a standard connector with 1 metre cable (0.5 mm²).

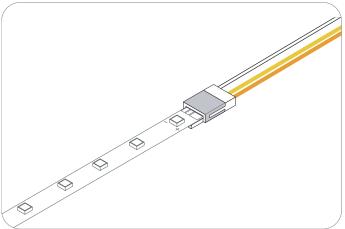
## Power and connection diagram



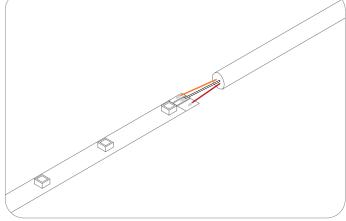


### Area advice

Depending on the area where the liniLED® LED strip is installed we offer a range of solutions to cope with external factors. The product portfolio for the liniLED® PCB LED strip includes an IP00 connector.



Indoor environment | (IP00) | IiniLED® PCB Connector Set



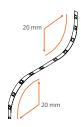
Indoor environment | (IP00)

Solder

Product code: 16001

# **Bending radius**

Maximum bending radius is 20 mm. Solely bend up or downward. Do not compress, stretch or bend the LED strip sideways.







### **Symbols**



Electro Static Discharge (ESD) sensitive device, apply standard ESD precautions when handling the product.



Manufacturer's declaration that the product meets the applicable EC directives.



Suitable for mounting on all surfaces and suitable to cover with insulating material.



Restriction of Hazardous Substances (RoHS): product complies with the RoHS directive and each homogeneous material does not exceed the limits for the materials mentioned under the RoHS directive (Pb, Hg, Cd, Cr6+, PBB and PBDE).



Not protected against ingress of solid foreign objects. Not-protected against ingress of water.



Bending of the LED strip is possible with a radius of  $\geq$  20 millimetres in the specified direction.



Electrical appliance class III: this product is designed to be supplied from an extra-low voltage ( $\leq 60.0 \text{ V}$  DC or  $\leq 42.4 \text{ V}$  AC).



System guarantee of 5 years when the complete system consist of liniLED $^{\circ}$  products with the 5 years system warranty logo. Terms & conditions apply.



Operating voltage of 24 V DC.



White colour consistency up to 2 SDCM ellipse over an entire single strip length. LEDs used are single BIN 3 SDCM ellipse, but their careful combination in a LED strip during the production process, results in a mixed light through a diffusive material which is within a 2 SDCM ellipse (probability >90%). Due to variability this is not legally binding. The guaranteed colour consistency can be found in the technical specifications.

#### Disclaimer

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