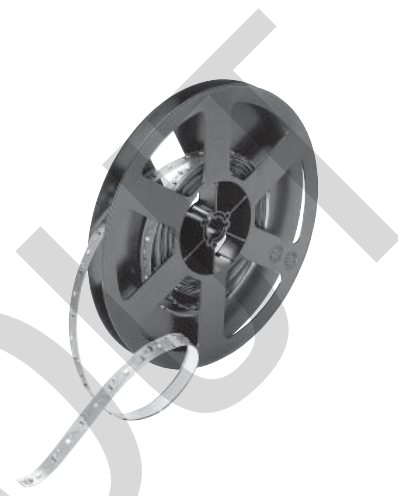
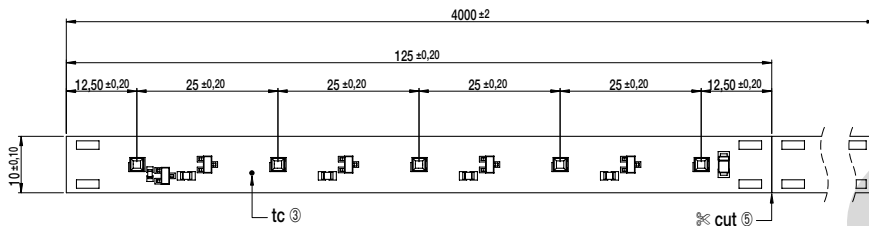


TALEXtape FP101

RoHS



**Applications:**

- safety lighting, general lighting, effect lighting and shelf lighting
- accenting lines and edges and for side injection
- edge lighting of transparent or diffuse materials
- suitable for use with TALEXprofile Z22W

**Highlights:**

- LED on flexible printed circuit board with adhesive tape
- low profile
- excellent thermal management ③

**Properties:**

- LED in SMD technology
- dimmable by pulse width modulation (PWM)
- colour temperature white: ④  
 warm white (WW): 3.000 K, CRI >80  
 neutral white (NW): 4.200 K, CRI >80  
 daylight white (DL): 6.500 K, CRI >75
- integrated current source to stabilise luminous flux
- fixing: pre-mounted thermal conductive adhesive tape
- smallest unit (5LEDs) can be cut off at 125mm ⑤
- connection method: solder pads

**Note:**

- cooling required
- applying reversed polarity of the supply voltage may damage the TALEXtape
- none of the components of the TALEXtape (substrated, LED, electronic components etc.) may be exposed to tensile or compressive stresses
- only parallel connection allowed
- maximum length of TALEXtape is 4m/8m with power feed at one end/ in the middle of two tapes
- for further information on installation please refer to the brochure entitled „TALEX installation instructions and guidelines“

**Packaging:**

4 meter per role

**TALEX**

type	article number	colour	colour temperature K ④	lightpoints	typ. luminous flux lm	Voltage V <sub>bc</sub> ②	Power W ①	length L mm	t <sub>a</sub> °C	t <sub>c</sub> max °C ③	packing unit pieces/carton
FP101 DL	89600529	daylight white	6.500	160	3400	24	100	4000	-25 → +55	75	1
FP101 NW	89600528	neutral white	4.200	160	2600	24	100	4000	-25 → +55	75	1
FP101 WW	89600527	warm white	3.000	160	2340	24	100	4000	-25 → +55	75	1

all data for t<sub>a</sub> = 25 °C (except max t<sub>c</sub>)

① tolerance range for optical and electrical data: ±15 %

② Exceeding the maximum operating voltage leads to an overload on the TALEXtape. This may in turn result in a significant reduction in lifetime or even destruction of the TALEXtape. Tolerance range for the supply voltage: 24V: +2V/ -0V

③ If the maximum temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged. The temperature of the TALEXtape at the t<sub>c</sub> point in the thermally stable state by means of a temperature sensor or temperature-sensitive sticker (available for example from [www.conrad.com](http://www.conrad.com), [www.rs-components.com](http://www.rs-components.com)) as per EN60598-1. For the precise position of the t<sub>c</sub> point see the above diagram.

④ For colour temperatures and tolerances – see page 2

⑤ Cut see drawing

**Thermal specification:**

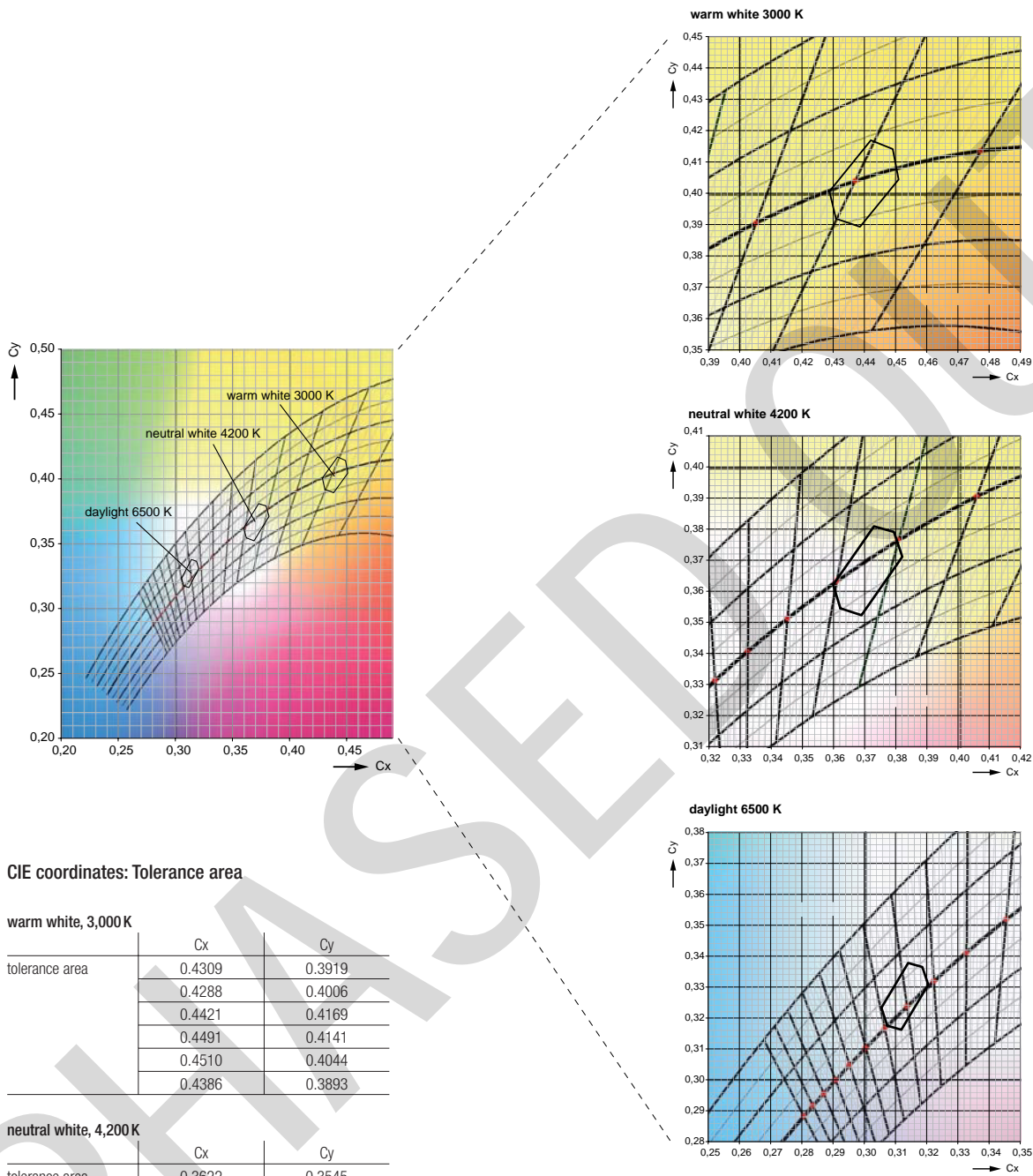
Values for aluminum >1mm thick, t<sub>c</sub> 75 °C, per unit

t <sub>a</sub>	R <sub>th, hs-a</sub>	Cooling Area
25 °C	1.95 K/W	42.7 cm <sup>2</sup>
35 °C	1.55 K/W	53.73 cm <sup>2</sup>
45 °C	1.15 K/W	72.44 cm <sup>2</sup>
55 °C	0.75 K/W	111.15 cm <sup>2</sup>

Values for aluminum >1mm thick, t<sub>c</sub> 75 °C, per 4m

t <sub>a</sub>	R <sub>th, hs-a</sub>	Cooling Area
25 °C	1.95 K/W	1376 cm <sup>2</sup>
35 °C	1.55 K/W	1720 cm <sup>2</sup>
45 °C	1.15 K/W	2318 cm <sup>2</sup>
55 °C	0.75 K/W	3557 cm <sup>2</sup>

### Colour temperatures and CIE coordinates



#### CIE coordinates: Tolerance area

##### warm white, 3,000 K

	Cx	Cy
tolerance area	0.4309	0.3919
	0.4288	0.4006
	0.4421	0.4169
	0.4491	0.4141
	0.4510	0.4044
	0.4386	0.3893

##### neutral white, 4,200 K

	Cx	Cy
tolerance area	0.3622	0.3545
	0.3599	0.3621
	0.3730	0.3809
	0.3794	0.3791
	0.3821	0.3711
	0.3690	0.3523

##### daylight white, 6,500 K

	Cx	Cy
tolerance area	0.3074	0.3175
	0.3055	0.3233
	0.3141	0.3378
	0.3186	0.3365
	0.3205	0.3308
	0.3119	0.3162