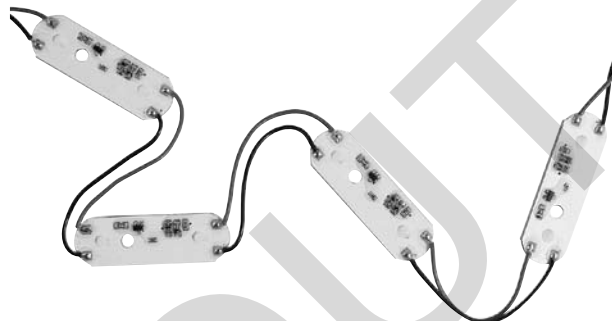
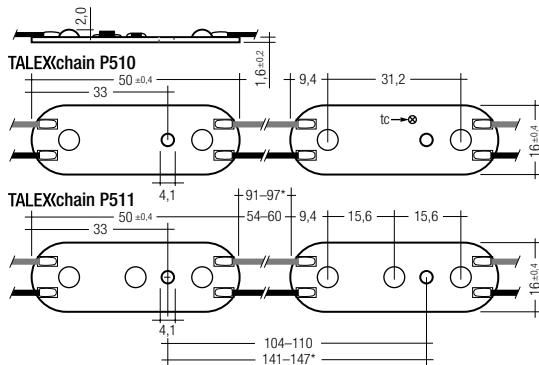


TALEXchain P510/P511



RoHS

Dimensions single module:



Applications:

- TALEX module chain for highlighting lines and edges and for backlighting letters and symbols in illuminated advertising applications
- backlighting of complex contours
- optimised for use in illuminated advertising (channel letters, backlighting applications)
- edge lighting of transparent or diffuse materials

Highlights:

- uniform illumination from a small number of TALEX modules
- individually adjustable luminance
- minimal heat generation

Properties:

- high-power LED in COB technology
- colour temperature white: ⑤
neutral white (NW): 4,200 K
daylight white (DL): 6,500 K
yellow white (YW): dom. wavelength 570 nm
warm white (WW): 3,000 K
- integrated current source to stabilise luminous flux
- flexible light chain, arbitrary module separation possible
- coated with protective varnish for applications where condensation occurs
- broad 140° light distribution
- fixing: M4 plastic screw or double sided adhesive tape
- connection method: cable 200 mm, both sides
- identification of polarity: + red / - black

Notes:

- for uniform illumination:
minimum distance to the cover 50–60 mm
- reversing the polarity may damage the TALEXchain!
- none of the components of the TALEXchain (substrate, LED, electronic components etc.) may be exposed to tensile or compressive stresses
- for further information on installation please refer to the brochure entitled "TALEX installation instructions"

TALEX

type	article number	colour	wavelength colour temp. ⑤	light points per module	modules per chain	typ. luminous flux lm ①	voltage V _{DC} ②	power W ①	ta °C	tc point °C ③	total length mm ④	packing unit pieces/carton
P510 G	89600246	green	520–540 nm	2	30	109	12	12.5	-25 → +55	75	approx. 3,200	5
P510 B	89600245	blue	460–465 nm	2	30	29	12	12.5	-25 → +55	75	approx. 3,200	5
P510 WW warm	89600455	warm weiß	3,000 K	2	30	160	12	12.5	-25 → +55	75	ca. 3,200	5
P510 NW neutral	89600247	neutral white	4,200 K	2	30	162	12	12.5	-25 → +55	75	approx. 3,200	5
P510 DL daylight	89600248	daylight white	6,500 K	2	30	180	12	12.5	-25 → +55	75	approx. 3,200	5
P511 R	89600136	red	624–630 nm	3	30	195	8	14.4	-25 → +55	75	approx. 3,200	5
P511 A	89600137	amber	586–592 nm	3	30	150	8	14.4	-25 → +55	75	approx. 3,200	5
P511 O	89600257	orange	600–610 nm	3	30	150	8	14.4	-25 → +55	75	approx. 3,200	100
P511 WW warm	89600555	warm weiß	3,000 K	3	30	315	12	12.5	-25 → +55	75	ca. 4,500	100
P511 DL daylight	89600311	daylight white	6,500 K	3	30	340	12	12.5	-25 → +55	75	approx. 4,500	100
P511 YW	89600413	yellow white	570 nm	3	30	395	12	12.5	-25 → +55	75	approx. 4,500	100

all values at ta = 25 °C

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

② Exceeding the maximum operating voltage leads to an overload on the TALEXchain.

This may in turn result in a significant reduction in lifetime or even destruction of the TALEXchain.

Tolerance range for the supply voltage: 8V: +2V/-0V; 12V: +2V/-0V

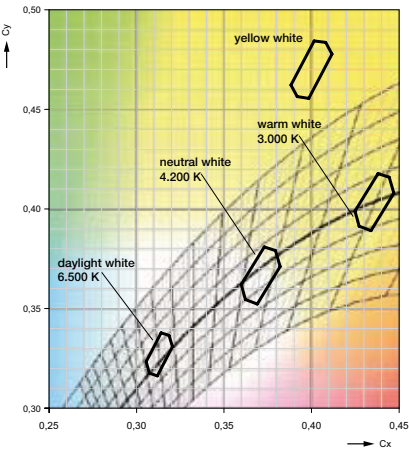
③ If the maximum temperature limits are exceeded, the life of the module will be greatly reduced or the module may be damaged. The temperature of the TALEXchain at the tc point in the thermally stable state by means of a temperature sensor or temperature-sensitive sticker (available for example from www.conrad.com, www.rs-components.com) as per EN60598-1.

For the precise position of the tc point see the above diagram.

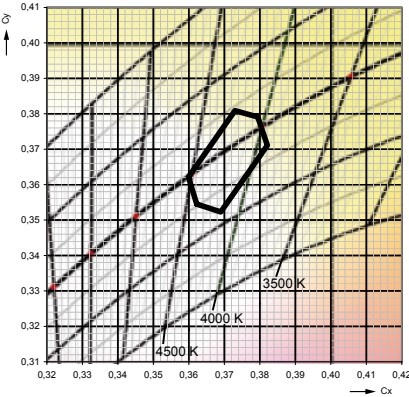
④ Higher total length for TALEXchain P511 DL and YW results from longer intermediate cables.

⑤ For colour temperatures and tolerances see page 2.

TALEXchain P510/511: Corresponding colour temperature and CIE coordinates – overview



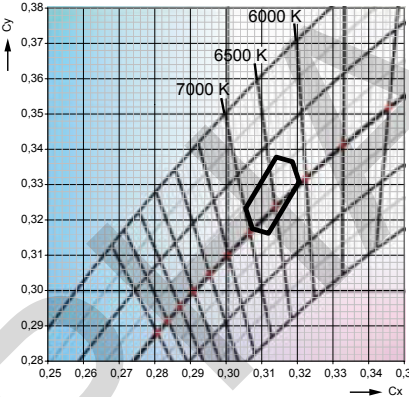
Corresponding colour temperature and CIE coordinates 4,200 K



CIE coordinates: tolerance area

neutral white, 4,200 K		
	Cx	Cy
Centre	0.3710	0.3669
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

Corresponding colour temperature and CIE coordinates 6,500 K



CIE coordinates: tolerance area

daylight white, 6,500 K		
	Cx	Cy
Centre	0.3130	0.3270
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

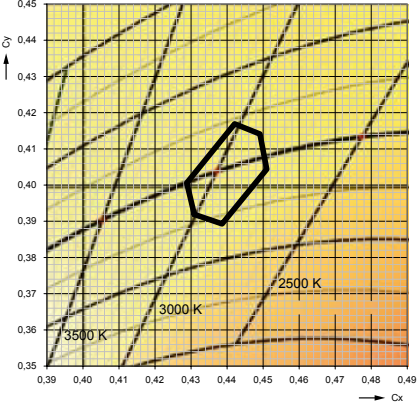
CIE coordinates yellow white (YW)



CIE coordinates: tolerance area

yellow white (YW)		
	Cx	Cy
Centre	0.4000	0.4700
tolerance area	0.3919	0.4564
	0.3883	0.4622
	0.4015	0.4844
	0.4081	0.4836
	0.4117	0.4778
	0.3985	0.4555

CIE coordinates warm white (WW)



CIE-Koordinaten: Toleranzband

warm white, 3,000 K		
	Cx	Cy
Centre	0.4400	0.4030
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