

Flexible LED Strip Selector Guide

5050 series

- Flexible LED light source
- High performance 5050 SMD LED emitters
- Choice of LED density
- Easy to cut at intervals
- Wide 120° angle of emission
- Long life, low power low heat
- Choice of IP ratings
- 3M Adhesive backing tape



Specifications

LED Density	Low			Medium			High		
Part No.	PF5000x10-150SL5050X			PF5000x10-300SL5050X			PF5000x10-360SL5050X		
IP Rating	IP20	IP65	IP68	IP20	IP65	IP68	IP20	IP65	IP68
Strip Width (mm)	10.0	11.0	12.0	10.0	11.0	12.0	10.0	11.0	12.0
LED's/metre	30			60			72		
LED pitch	33.3			16.66			13.9		
Cut point (mm)	12v 50mm	24v 100mm		12v 50mm	24v 100mm		12v 41.7mm	24v 83.3mm	
Reel size/Qty	150			300			360		

Electrical Characteristics (Ta=25°C)

LED Density	Low		Medium		High	
Part No.	PF5000x10-150SL5050X		PF5000x10-300SL5050X		PF5000x10-360SL5050X	
Operating Voltage	12v or 24v					
Power/Metre	7.2W		14.4W		17.2W	
Operating Temp	-20° +45°C					

Optical Characteristics @ Ta=25°C

LED Density			Low	Medium	High
Colour	Wavelength/CCT	Code	Luminous Flux Typ. (lm) / metre		
Red	630nm	R	60cd	120cd	144cd
Amber	610nm	A	60cd	120cd	144cd
Yellow	595nm	Y	60cd	120cd	144cd
Blue	470nm	B	30cd	60cd	72cd
Green	525nm	G	1380cd	2760cd	3312cd
Cool White	6000K	CW	660lm	1320lm	1584lm
Pure White	5000K	PW	660lm	1320lm	1584lm
Natural White	4000K	NAW	660lm	1320lm	1584lm
Warm White	3000K	WW	660lm	1320lm	1584lm
Viewing angle	120°				

White types may be specified by colour temperature range and or x, y, coordinates from cool white through to warm white for consistent colour rendition. Please contact our office for details along with the latest luminous intensity yields.

Notes:

Suffix -x in Part No. denotes colour

Suffix -xx in Part No. denotes operating voltage

See additional data sheet for full colour RGB types

Other LED types and configurations are available on request

Handling notes:

Ensure that the correct low voltage dc power supply is matched to the flexible strip specification

Avoid repeated bending of the strip as this will damage the circuit and components, please observe the maximum bend radius of 30mm

Avoid handling of the surface components in particular the LED emitters as any pressure may result in damage and latent failures.

When cutting IP65 the ingress protection will be compromised please ensure that the assembly is re-sealed accordingly in order to maintain the IP rating

Installation notes:

To achieve a consistent luminous effect, each 5 metre length should be connected to the power source.

To ensure long life we recommend that the strip is kept as cool as possible and environments where the temperature exceeds 40°C should be avoided

It is important to consider ambient temperature rise and to ensure that there is adequate ventilation. We recommend that the LED strips are applied to a heat conducting substrate such as aluminium profile.

High density LED strip is not recommended for use in sealed enclosures where temperatures may rise and heat cannot escape.

Drive & Control:

For control solutions please refer to our range of controllers and drive options which include DMX, RF Wireless, WiFi. More information may be found at <http://www.plusopto.co.uk/led-controllers.html>