

Flexible LED Strip Selector Guide

SL2835 series

- Flexible LED light source
- High performance 2835 SMD LED emitters
- High Color Rendering Index (CRI>90)
- 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			Medium +			High			Very High		
Part No.	PF5000x-300SL2835X			PF5000x-600SL2835X			PF5000x-640SL2835X			PF5000x-900SL2835X			PF5000x-1200SL2835X		
IP Rating	IP20	IP62	IP68	IP20	IP62	IP68	IP20	IP62	IP68	IP20	IP62	IP68	IP20	IP62	IP68
Strip Width (mm)	8.0	9.0	11.0	8.0	9.0	11.0	10.0	11.0	11.0				8.0	9.0	11.0
LED's/metre	60			120			128			180			240		
LED pitch	16.6			8.33			7.81			5.55			4.16		
Cut point	12V 50mm		24V 100mm	12V 50mm		24V 50mm	24V 62.5mm			12V 16.66mm		24V 33.32mm	12V 12.5mm		24V 24.0mm
5.0M Reel size/Qty	300			600			640			900			1200		



T +44 (0) 1942 671122 F + (0) 1942 671133 E sales@plusopto.co.uk W www.plusopto.co.uk
 B13 Derwent Court William Way Moss Industrial Estate Leigh Lancashire WN7 3PT

Electrical Characteristics (Ta=25°C)

LED Density	Low	Medium	Medium+	High	Very High
Part No.	PF5000x8-300SL2835X	PF5000x8-600SL2835X	PF5000x8-640SL2835X	PF5000x8-900SL2835X	PF5000x8-1200SL2835X
Operating Voltage	12V or 24V		24V	12V or 24V	
Power/Metre	4.8W	9.6W	9.6W, 12W, 18W, 21W, *	14.4W	19.2W
Operating Temp	-20° +45°C				
* Note: At power ratings above 11W secondary heatsinking is required to maintain reliability& lifetimes					

Optical Characteristics @ Ta=25°C

LED Density			Low	Medium	Medium+	High	Very High			
Colour	Wavelength/CCT	Code	Luminous Flux Typ. (lm) / metre							
Red	630nm	R	45cd	90cd		135cd	180cd			
Amber	610nm	A	45cd	90cd		135cd	180cd			
Yellow	595nm	Y	30cd	60cd		90cd	120cd			
Blue	470nm	B	21cd	42cd		63cd	84cd			
Green	525nm	G	72cd	144cd		216cd	288cd			
Cool White	6000K	CW	480	960	1850	2100	3100	3600	2000	2400
Pure White	5000K	PW	480	960	1850	2100	3100	3600	2000	2400
Natural White	4000K	NAW	480	960	1750	2000	2900	3500	2000	2300
Warm White	3000K	WW	450	900	1650	1900	2800	3400	1900	2200
Viewing angle	120°									

White types are specified by colour temperature range and or x, y, coordinates from cool to warm white for consistent colour rendition. Please contact our office for latest luminous intensity yields.



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Part Numbering

PF5000 denotes 5.0M reel. 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 for power/intensity 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 and 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. 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>

Specifications may be subject to change without notice