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B13 Derwent Court William Way Moss Industrial Estate Leigh Lancashire WN7 3PT

SEAM Semiconductors

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 (4.8W/m)			Medium (9.6W/m)			Medium +			High (14.4W/m)			Very High (19.2W/m)		
Part No.	PF5000x-300SL2835X			PF5000x-600SL2835X			PF5000x-640SL2835X			PF5000x-900SL2835X			PF5000x-1200SL2835X		
IP Rating	IP20	IP65	IP68	IP20	IP65	IP68	IP20	IP65	IP68	IP20	IP65	IP68	IP20	IP65	IP68
Strip Width (mm)	8.0	9.0	11.0	8.0	9.0	11.0	10.0	11.0	11.0	10.0	11.0	11.0	12.0	13.0	13.0
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		

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Electrical Characteristics (Ta=25°C)

LED Density	Low	Medium	Medium+	High	Very High
Part No.	**PF5000x8-300SL2835X**	**PF5000x8-600SL2835X**	**PF5000x10-640SL2835X**	**PF5000x10-900SL2835X**	**PF5000x12-1200SL2835X**
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 (4.8W/m)	Medium (9.6W/m)	Medium+				High (14.4W/m)	Very High (19.2W/m)
Colour	**Wavelength/CCT**	**Code**	**Luminous Flux Typ. (lm) / metre**							
Red	630nm	R	180lm	360lm					540lm	720lm
Amber	610nm	A	180lm	360lm					540lm	720lm
Yellow	595nm	Y	160lm	320lm					480lm	640lm
Blue	470nm	B	100lm	200lm					300lm	400lm
Green	525nm	G	350lm	700lm					1050lm	1400lm
Pure White	6000K-6500K	PW	480lm	960lm	1850	2100	3100	3600	2000lm	2400lm
Daylight White	5000K	DW	480lm	960lm	1850	2100	3100	3600	2000lm	2400lm
Natural White	4000K-4500K	NAW	480lm	960lm	1750	2000	2900	3500	2000lm	2300lm
Warm White	2700K-3000K	WW	450lm	900lm	1650	1900	2800	3400	1900lm	2200lm
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 and that higher power types >11W/metre are mounted on a suitable heatsink to allow cooling and maintain LED life.

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