

Flexible LED Strip Selector Guide

3528 series

- Flexible LED light source
- High performance 3528 SMD LED emitters
- 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			Very High		
Part No.	PF5000x8-300SL3528X			PF5000x8-600SL3528X			PF5000x8-900SL3528X			PF5000x8-1200SL3528X		
IP Rating	IP20	IP62	IP68	IP20	IP62	IP68	IP20	IP62	IP68	IP20	IP62	IP68
Strip Width	8.0mm	9.0mm	11.0mm	8.0mm	9.0mm	11.0mm	11.0mm	8.0mm	9.0mm	8.0mm	9.0mm	11.0mm
LED's/metre	60			120			180			240		
LED pitch	16.6			8.33			5.55			4.16		
Cut point	12v 50mm		24v 100mm	12v 50mm		24v 50mm	12v 16.66mm		24v 33.32mm	12v 12.5mm		24v 24.0mm
Reel size/Qty	300			600			900			1200		



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Electrical Characteristics (Ta=25°C)

LED Density	Low	Medium	High	Very High
Part No.	PF5000x8-300SL3528X	PF5000x8-600SL3528X	PF5000x8-900SL3528X	PF5000x8-1200SL3528X
Operating Voltage	12v or 24v			
Power/Metre	4.8W	9.6W	14.4W	19.2W
Operating Temp	-20° +45°C			
Note: Current and power ratings are typical based on the LED nominal current rating of 20mA These values may vary with LED type and densities to maximize reliability & lifetimes				

Optical Characteristics @ Ta=25°C

LED Density			Low	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	430	860	1260	1680
Pure White	5000K	PW	430	860	1260	1680
Natural White	4000K	NAW	430	860	1260	1680
Warm White	3000K	WW	410	820	1224	1630
Viewing angle	120°					



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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 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 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>

Specifications may be subject to change without notice