

PF5000x12-300SLM3535RGB

High Intensity RGB Flexible LED

Features

- Full colour RGB Flexible LED light source
- High performance 3-chip-in-one 3535 emitters
- Easy to cut at intervals
- Wide 120° angle of emission
- Low power, low heat, long life
- 3M Adhesive backing tape



Applications: POS Display equipment & Backlighting

Configuration

Parameter	Rating	Unit
LED emitters PLCC 3535	300 pcs 3.5x3.5mm	TOTAL / reel
	60 pcs 3.5x3.5mm	/metre
LED pitch	16.66	mm
Dimensions 12vdc	5000x12mm cuttable at 50mm intervals	
Dimensions 24vdc	5000x12mm cuttable at 120mm intervals	
Termination	4x Flying wire leads 200mm long	
Connection	4 wire R,G,B, with Common +ve	
Optional termination via 4-way XHP-4 connector with 500mm leads		

Electrical Characteristics Ta=25°C

Parameter	12v Rating	24v Rating	Unit
Input Voltage	12v Typical	24v Typical	Vdc
Current consumption / metre	1200mA	600mA	mA/m
Current consumption total	6A	3A	A/ TOT / reel
Power consumption / metre	14.4W	14.4W	W/m
Power consumption total	72W +/- 5%	72W +/- 5%	W/TOT / reel
Operating Temp	-20 to +45°C		°C
Storage Temp	-10 to +55°C		°C

Electro-optical characteristics Ta =25°C

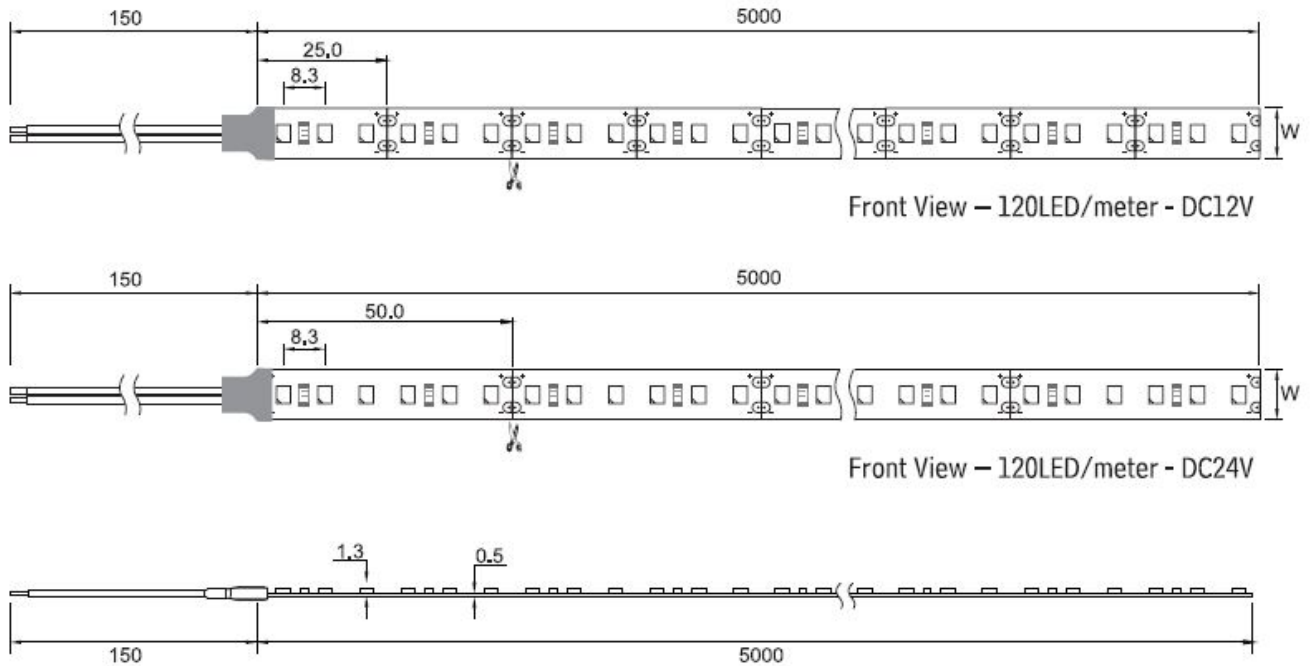
Characteristics	Wavelength typ. nm	Intensity typ mcd	Unit
Intensity & colour	Red	620	nm /mcd
	Green	520	
	Blue	470	
Viewing Angle 2Θ1/2 (°)	120		degrees
Luminous Flux / metre (white mode)	700		lumens

Notes:

Optional encapsulation is available to provide IP65 or IP68 rating.

Specifications may be subject to change without notice

Dimensions



Notes:

Higher luminous intensity versions are also available configured for increased current drive (power). It is recommended that higher power types >11W/metre are mounted on a suitable heatsink i.e. aluminium to allow cooling and maintain LED life.

The rated life of LED products depends to a large extent on the temperature. If the permissible temperature limits are exceeded, LED lifetimes will be greatly reduced and may lead to catastrophic failure of the LEDs.

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

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

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>