

PF5000x12-1200SL3838RGB-24v

High Density RGB Flexible LED Strip

Features

- High Density 240 LED/m Multi-colour RGB strip
- Three in one 3838RGB LED emitters
- Easy to cut at 25mm intervals
- Wide 120° angle of emission
- Low power, low heat, long life
- 3M Adhesive backing tape



Applications: POS Display equipment & lighting

Configuration

Parameter	Rating	Unit
LED emitters PLCC 3838	1200 pcs 3.8 x 3.8mm	TOTAL / reel
	240 LEDs/metre	
LED pitch	4.17	mm
Dimensions	5000x12mm cuttable at 25mm intervals	
Termination	5x Flying wire leads 150mm long	
Connection	5 wire: Red, Green, Blue with Common +ve	

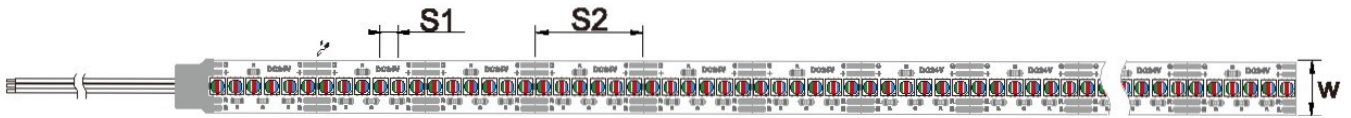
Electrical specification Ta=25°C

Parameter	Min.	Typ.	Max.	Units
Input Voltage	22.0	24.0	28.8	v
Input Current	-	0.683	-	A/metre
	-	3.1	-	A/reel
Power Consumption	-	16.4	18.6	W/metre
	-	74.4	-	W/reel
Energy Efficiency Class	-	A+	-	-
Bend Diameter	-	>60	-	mm
Dimensions	-	5000x12x1.3	-	mm
Storage Temperature	-40	25	+80	C
Operating Temperature	-25	25	+60	°C
Beam angle	100	110	120	degrees
Warranty	-	3	-	years

Electro-optical characteristics Ta=25°C

Parameter	Colour	Min.	Typ.	Max.	Units
Dominant Wavelength	Green	515	516	520	nm
	Red	620	622	625	nm
	Blue	465	466	470	nm
Luminous Flux	Green	630	644	650	lm/m
	Red	165	168	170	lm/m
	Blue	130	131	135	lm/m
	RGB (White)	900	908	920	lm/m

Dimensions



Notes

Higher luminous intensity versions are 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 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 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

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