

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