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## 24V Seamless COB LED Strip 5m

User Manual

### Introduction

Lyyt Seamless COB LED Strip provides a continuous 'no spot' linear lighting solution. The COB (chip on board) technology consists of 528 tightly packed LED's per metre and a phosphor layer coating which diffuses the LED's into a seamless array of light. The flexible COB strip is supplied on a 5m reel and can be cut to desired length along the designated cutting points, the strip is equipped with an adhesive backing for easy installation. The 24Vdc COB strip has a high CRI of 90 making it suitable for a wide variety of applications, such as in hospitality, retail, offices, displays, exhibitions and more. IP20 versions are for indoor use only.

### Specification

|                                    |  |
|------------------------------------|--|
| <b>Colour temperature</b>          | 156.665UK: 6500K, 156.666UK: 3000K, 156.668UK: 2000K |
| <b>Voltage</b>                     | 24Vdc  |
| <b>Beam angle</b>                  | 180°   |
| <b>LED Type</b>                    | Sanan  |
| <b>Reel Length</b>                 | 5m   |
| <b>IP Rating</b>                   | IP20   |
| <b>Power consumption per metre</b> | 12W  |
| <b>Current</b>                     | 500mA per metre                                      |
| <b>LED quantity per metre</b>      | 528  |
| <b>LED spacing</b>                 | 2mm  |
| <b>Cut points</b>                  | 4.5cm  |
| <b>Colour rendering index</b>      | Ra>90  |
| <b>Cross-section</b>               | 10 x 2mm   |
| <b>Weight</b>                      | 0.126kg  |

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Installation of this COB Strip should be carried out by competent electrical installers, observing the relevant electrical safety procedures. Lyyt COB Strip has a self-adhesive backing to allow it to be easily attached to a clean, non-porous surface.

Where less than 5m of tape is needed, there are solder points as shown below, where the tape may be cut to size. These cut points are at 4.5cm intervals. To re-connect to another length of tape after

cutting, solder a wire from “+” to “+” and a wire from “-” to “-” as shown below. Some accessories are supplied with the tape reel for this purpose. For best protection of this tape, we recommend inserting the tape into one of our Aluminum Profiles.



Each 5m reel of COB Strip is fitted with a 2.1mm DC jack socket for power input for easy connection to a power supply. This connector may be removed and stripped for bare wire connection if a 2.1mm jack is not fitted to the power supply.

If the power supply has enough capacity to power more than one reel, another reel can be connected to the end of the first reel via the 2.1mm DC jack plug.

For 24V COB Strip, up to 25m can be linked in this way. Using a separate wire to loop “+” and “-” back to the power supply will help to avoid dimming at the far end through voltage drop. To connect beyond these lengths, a parallel wire must be run from the power supply to the further reels of tape.



It is imperative that the power supply should have higher than the rated capacity in Amps (A) for the current required to power the length(s) of COB Strip installed. Likewise, if controllers and amplifiers/repeaters are used, these must have adequate capacity for the tape being controlled. Please see the table below for reference.

| Tape Length                    | 5m   | 10m | 15m  | 20m | 25m   |
|--------------------------------|------|-----|------|-----|-------|
| Current for 24V tape 528 LED/m | 2.5A | 5A  | 7.5A | 10A | 12.5A |

Please visit [www.avsl.com](http://www.avsl.com) to select from our range of 24Vdc power supplies that are suitable for powering Lyyt COB Strip



This product is classed as Electrical or Electronic equipment and should not be disposed with other household or commercial waste at the end of its useful life. The goods must be disposed of according to your local council guidelines.

**Errors and omissions excepted.**