

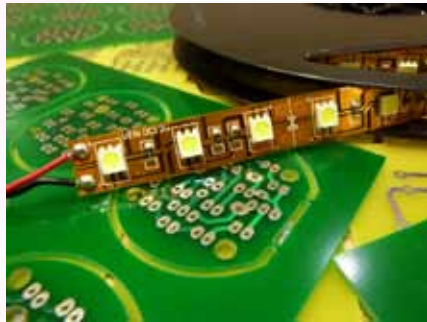
COMMERCIAL LIGHTING SYSTEMS LTD

# Sovereign<sup>®</sup> Interior & Exterior Flexible LED Strip



## SOVEREIGN® FLEXIBLE LED STRIP

Using the very latest in SMD LED technology, our flexible LED strips enable us to offer an excellent lighting solution even for the most challenging situations. This product forms the basis for a wide range of applications including "continuous" runs of LED where the strip can either be fixed straight to the mounting surface or located in an aluminium extrusion for added protection. Applications include jewellery counters, cove lighting, under cabinet lighting etc with an IP68 version available for bathroom or exterior applications. Can be supplied in lengths to suit each application with appropriate power supplies available to suit. Choice of warm white, cool white, cold white, single colour or RGB versions, with three power options available. Interior versions supplied with adhesive tape for fixing as standard.



### SOVEREIGN® HIGH & LOWER POWER INTERIOR FLEXIBLE LED STRIP

Cat.No	Specification	Tape Width	Col Temp	Wattage per mtr	Lumens per mtr
18350/**	5060 SMD 60/LED per mtr	12mm	3000°	14.4W	880 lm
18351/**	5060 SMD 60/LED per mtr	12mm	5500°	14.4W	900 lm
18352/**	5060 SMD 60/LED per mtr	12mm	7000°	14.4W	900 lm
18353/**	5060 SMD 60/LED per mtr	12mm	RGB	14.4W	
18360/**	5060 SMD 60/LED per mtr	12mm	BLUE	14.4W	160 lm
18361/**	5060 SMD 60/LED per mtr	12mm	YELLOW	14.4W	200 lm
18362/**	5060 SMD 60/LED per mtr	12mm	RED	14.4W	200 lm
18363/**	5060 SMD 60/LED per mtr	12mm	GREEN	14.4W	600 lm
18358/0011	Live End				
18358/0012	Coupler				
18358/0013	Flexible Coupler				
18350L/**	5060 SMD 30/LED per mtr	10mm	3000°	7.2W	440 lm
18351L/**	5060 SMD 30/LED per mtr	10mm	5500°	7.2W	450 lm
18352L/**	5060 SMD 30/LED per mtr	10mm	7000°	7.2W	450 lm
18353L/**	5060 SMD 30/LED per mtr	10mm	RGB	7.2W	
18360L/**	5060 SMD 30/LED per mtr	10mm	BLUE	7.2W	80 lm
18361L/**	5060 SMD 30/LED per mtr	10mm	YELLOW	7.2W	100 lm
18362L/**	5060 SMD 30/LED per mtr	10mm	RED	7.2W	100 lm
18363L/**	5060 SMD 30/LED per mtr	10mm	GREEN	7.2W	300 lm
18358/0001	Live End				
18358/0002	Coupler				
18358/0003	Flexible Coupler				

/\*\* state length required (we will provide relevant couplers & terminations to suit each project)

If aluminium extrusion & frosted diffuser required, add /ALF after length so for example a 1550mm length of 3000° complete would be 18350/1550/ALF /ALC clear diffuser also available. Alternative mounting options on request

Remember to select relevant driver(s) for required length





### SOVEREIGN® HIGH & LOWER POWER IP68 EXTERIOR FLEXIBLE LED STRIP

Cat.No	Specification	Tape Width	Col Temp	Wattage per mtr	Lumens per mtr
18354/**	5060 SMD 60/LED per mtr	15mm	3000°	14.4W	880 lm
18355/**	5060 SMD 60/LED per mtr	15mm	5500°	14.4W	900 lm
18356/**	5060 SMD 60/LED per mtr	15mm	7000°	14.4W	900 lm
18357/**	5060 SMD 60/LED per mtr	15mm	RGB	14.4W	
18354L/**	5060 SMD 30/LED per mtr	13mm	3000°	7.2W	440 lm
18355L/**	5060 SMD 30/LED per mtr	13mm	5500°	7.2W	450 lm
18356L/**	5060 SMD 30/LED per mtr	13mm	7000°	7.2W	450 lm
18357L/**	5060 SMD 30/LED per mtr	13mm	RGB	7.2W	

- 18359/0001 Waterproof Connector (for Single Colour)
- 18359/0002 Waterproof Connector (for RGB)
- 18359/0003 Mounting Clip
- 18359/0004 End Cap (Pair)

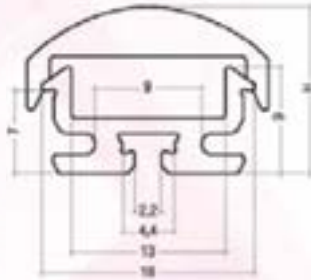
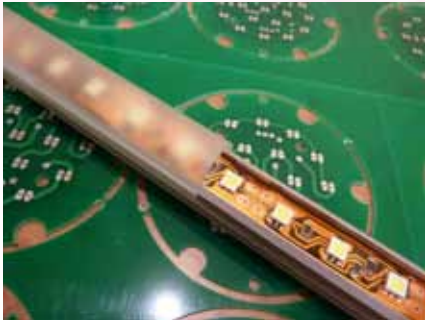


/\*\* state length required (we will provide relevant couplers & terminations to suit each project)  
 Single colour options also available.  
 Alternative mounting options on request.  
 Remember to select relevant driver(s) for required length.

**NOTE:** For applications where a high light output is not required, we can offer our "UL" (Ultra Low Power) version of our flexible LED system in both interior and exterior types. Using 3528 SMD chips, 60/LED per mtr, with a total wattage of 4.8W per mtr and a tape width of just 8mm. To specify this version, add UL immediately after the first five digits of the part number. For example, for Ultra Low Power Warm White Interior, part number would be 18350UL/\*\*



# SOVEREIGN® FLEXIBLE LED ACCESSORIES



Shallow extruded Aluminium channel for flexi Led  
 Overall height including diffuser 16mm  
 Overall height including end cap 19mm  
 Width of diffuser 20.5mm

## SOVEREIGN® EXTRUSION C/W DIFFUSER FOR HIGH & LOWER POWER INTERIOR FLEXIBLE LED STRIP

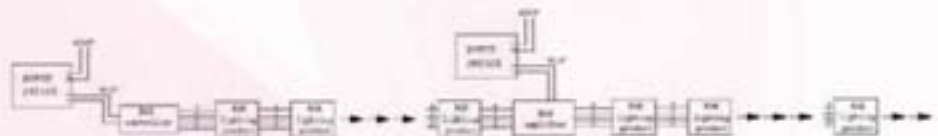
If aluminium extrusion & frosted diffuser required, add /ALF after length so for example a 1550mm length of 3000° complete would be 18350/1550/ALF /ALC clear diffuser also available.



## SOVEREIGN® 12V DC POWER SUPPLIES (DRIVERS) FOR HIGH & LOWER POWER INTERIOR FLEXIBLE LED STRIP

Cat.No.	Wattage	Length	Width	Height	Output Leads	IP Rated
98088	10W	120mm	35mm	25mm	N/A	NO
98089	20W	165mm	40mm	25mm	N/A	NO
98092/030	30W	205mm	35mm	25mm	1	IP67
98092/060	60W	190mm	70mm	40mm	2	IP67
98092/100	100W	250mm	70mm	45mm	2	IP67
98092/150	150W	235mm	130mm	60mm	3	IP67

Other wattages, voltages, constant current & dimmable versions also available.



## SOVEREIGN® RGB CONTROLLER FOR HIGH & LOWER POWER INTERIOR FLEXIBLE LED STRIP

Provides a number of pre-set single colours or colour change, with speed & brightness control.

Cat.No.	Description	Wattage (max)
98095	RGB Controller	144W
98095/0001	RGB Amplifier	144W

Use in conjunction with appropriate driver above.



# TECHNICAL GUIDANCE FOR FLEXIBLE LED STRIP

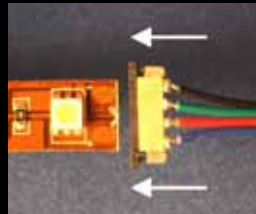
## INTERIOR

All versions of our flexible LED strip are held in stock on standard 5mtr reels, and although the system is extremely versatile and straightforward to use, to aid installation we recommend you ask us to prepare each strip to exactly the length and specification you need for each specific project. Each length will then be supplied complete with live end and 150mm cables suitable for direct connection to selected driver (longer leads available on request). All interior versions are supplied with adhesive tape for ease of fixing.

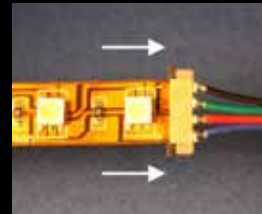
Alternatively, the strip can easily be cut on site, and joined using our range of snap-on connectors taking care to ensure the correct polarity is adhered to with each strip in the "run" (each strip is clearly marked +/- for identification).



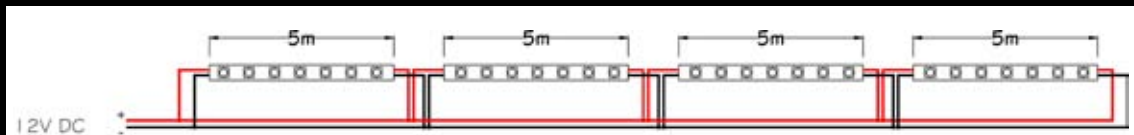
Connector shown open ready to accept tape



Connector shown closed once fitted to tape



On longer runs, to prevent noticeable differential in light output between beginning and end of run, pay attention to voltage drop by ensuring strips are fed at most appropriate point along length, and avoid excessive lengths from one feed. We strongly recommend a maximum length of 5mts from one feed. For instance, on a 20mtr run it might be more appropriate to use 4 x 5mtr separate lengths and feed each pair of lengths from the point they meet.



If constant output along entire length is particularly important, each 5mtr run may be fed from both ends (as shown) to virtually eliminate voltage drop.

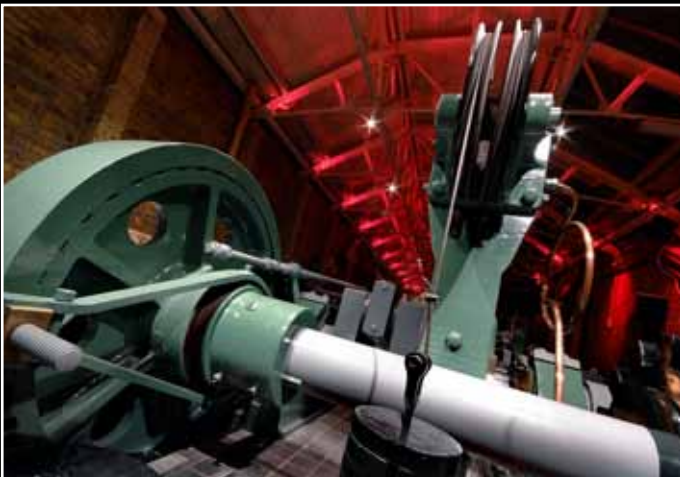
When mounting the strip inside the optional aluminium extrusion, it is not possible to use the snap-on connectors without removing part of the side wall of the extrusion to allow the edge of the connector to protrude. It is therefore even more relevant in this case to allow us to prepare the system for you in our factory to prevent difficulties on site

## EXTERIOR IP68

This version uses the same LED strip as our interior version, but located within a silicon tube with sealed ends to provide IP68 protection. In order to retain the integrity of the IP rating, we strongly recommend we prepare the system in our factory. However, the strip can be easily cut and relevant silicon end caps and sealant are available if required.

This version is also ideal for interior environments where added protection may be required such as under-shelf applications or areas where excessive dust may be present.

# RECENT LED PROJECTS



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