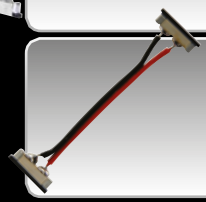
LED Strip Special

DECORATIVE LED STRIPS

The technology of the LED strips is finally within everyone's reach. They offer plenty of possibilities both in terms of lighting and decoration. Give your home the best lighting. The LED strip has something for everyone, as you can adjust the light intensity as well as change colours. Your creativity will know no bounds!

ACCESSORIES FOR SINGLE-COLOUR LED STRIPS
2 CONNECTORS

POWER CABLE
1.64ft _____ ***CHLCON4***

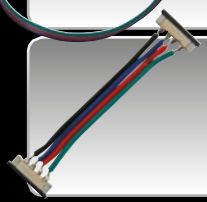


POWER CABLE
1.96" _____ ***CHLCON5***

CONDUCTOR
_____ ***CHLCON6***

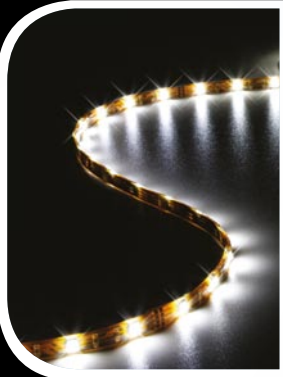
ACCESSORIES FOR LED STRIPS
4 CONNECTORS

POWER CABLE
1.64ft _____ ***CHLCON1***



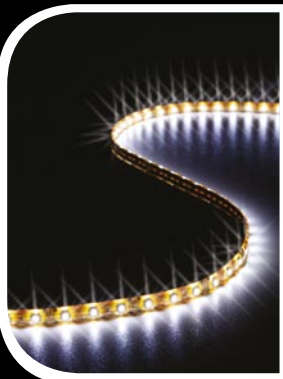
POWER CABLE
1.96" _____ ***CHLCON2***

CONDUCTOR
_____ ***CHLCON3***



12V | 5M x10mm | 16.4ft x25/64" | 150 LEDs | type 5050

White _____ ***CHLS4W***
Warm white _____ ***CHLS4WW***
RGB _____ ***CHLS4RGB***
Blue _____ ***CHLS4B***
Green _____ ***CHLS4G***
Red _____ ***CHLS4R***
Yellow/amber _____ ***CHLS4Y***



12V | 5M x10mm | 16.4ft x25/64" | 300 LEDs | type 3528

White _____ ***CHLS3W***
Warm white _____ ***CHLS3WW***
Blue _____ ***CHLS3B***
Green _____ ***CHLS3G***
Red _____ ***CHLS3R***
Yellow/amber _____ ***CHLS3Y***

12V | 5M x12mm | 16.4ft x15/32" | 150 WHITE | type 3528 | 150 RGB | type 5050

RGB-white ___ ***CHLS16RGBW***

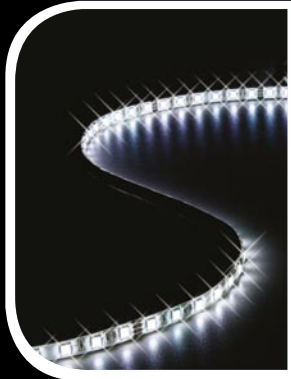
to be used with ref. CHLS16C

CHOOSING AN LED STRIP DEPENDS ON SEVERAL FACTORS:

- The degree of water protection, which is expressed with an IP rating.
- The voltage of the LED. Generally, a 12V voltage is considered a safe low voltage and therefore it is widely used. An LED strip with a voltage of 24V has the advantage that the same wire diameter can span a greater distance between the power supply and your LED strip.
- The choice of an LED strip also depends on the number of LEDs on an LED strip. The more LEDs, the less visible distinctive light spots and the better the light distribution. This can be useful for indirect lighting over a small distance between the strip and the illuminated area, but is unimportant with greater distances.
- The overall intensity of the LED matters too. It is directly proportional to the number of *dies* or LED chips on an LED strip. This is not to be mistaken for the number of LEDs. A type 3528 LED has got 1 *die* per LED and a type 5050 LED has got 3 *dies* per LED. Theoretically this means a type 5050 LED produces three times the light a type 3528 does.

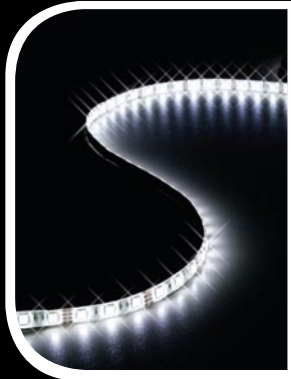
A TYPE 3528 LED HAS GOT 1 *DIE*

A TYPE 5050 LED HAS GOT 3 *DIES*



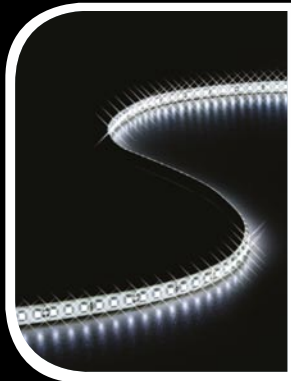
24V | 5M x10mm | 16.4ft x25/64" | 300 LEDs | type 5050

White ____ ***CHLS7W***
Warm white ____ ***CHLS7WW***
RGB ____ ***CHLS7RGB***
Blue ____ ***CHLS7B***



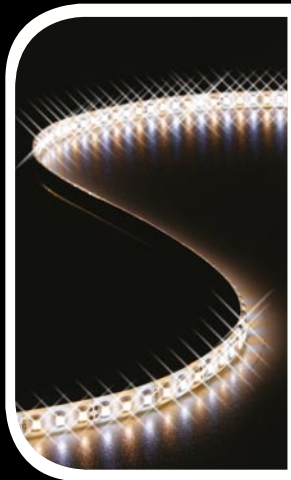
12V | 5M x10mm | 16.4ft x25/64" | 300 LEDs | type 5050

White ____ ***CHLS15W***
Warm white ____ ***CHLS15WW***
RGB ____ ***CHLS15RGB***



24V | 5M x10mm | 16.4ft x25/64" | 600 LED | type 3528

White ____ ***CHLS13W***
Warm white ____ ***CHLS13WW***
Blue ____ ***CHLS13B***



12V | 5M x10mm | 16.4ft x25/64" | 300 WARM WHITE | type 3528 | 300 NEUTRAL WHITE | type 3528

White & warm white ____ ***CHLS18WWWC***

LED STRIPS FOR LIGHTING

FLEXIBLE LED STRIP
WITHOUT SILICONE COATING

24V | 5M x10mm | 16.4ft x25/64" | 1200 LEDs | type 3528

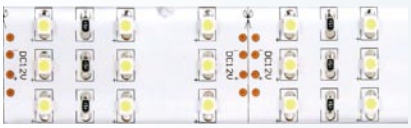
*White*_____***CHLS19W***
*Warm white*____***CHLS19WW***

FLEXIBLE DUAL LEDSTRIP

24V | 5M x15mm | 16.4ft x19/32" | 1200 LEDs | type 3528

*White*_____***CHLS20W***
*Warm white*____***CHLS20WW***

FLEXIBELE TRIPLE LEDSTRIP



12V | 5M x24mm | 16.4ft x15/16" | 900 LEDs | type 3528

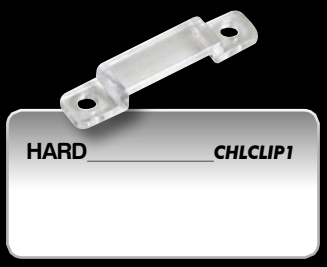
*White*_____***CHLS21W***

*Warm white*____***CHLS21WW***

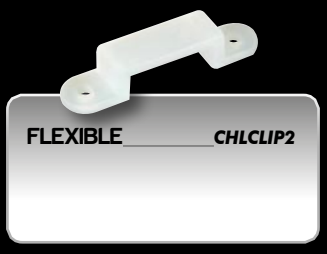
WATER PROOF LED STRIPS

IP68 6 = No ingress of dust; complete protection against contact.
8 = The equipment is suitable for continuous immersion in water under conditions of prolonged immersion.

MOUNTING CLIPS
FOR IP68 WATER PROOF LED STRIPS
• 100 PIECES
for: CHLS11W, CHLS11WW, CHLS11B, CHLS11RGB, CHLS22W, CHLS22WW, CHLS22RGB

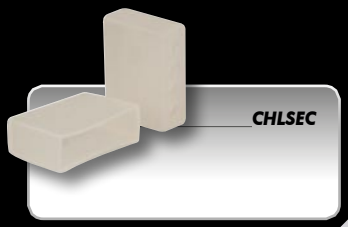


HARD _____ ***CHLCLIP1***



FLEXIBLE _____ ***CHLCLIP2***

END CUP
FOR CHLS11 LED STRIPS
• 4x: closed end cups
• 4x: cup with 2 holes for single colour strips
• 4x: cup with 4 holes for RGB strips



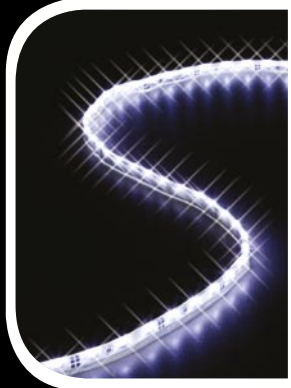
CHLSEC

12V | 5M x10mm | 16.4 ft x25/64" | 150 LEDs | type 5050

White (9000K) ___ ***CHLS11W***
Warm white ___ ***CHLS11WW***
RGB ___ ***CHLS11RGB***
Blue ___ ***CHLS11B***

12V | 5M x12mm | 16.4 ft x15/32" | 300 LEDs | type 5050

White ___ ***CHLS22W***
Warm white ___ ***CHLS22WW***
RGB ___ ***CHLS22RGB***



´SIDE VIEW´

12V | 5M x8mm | 16.4 ft x5/16" | 300 LEDs | type 335

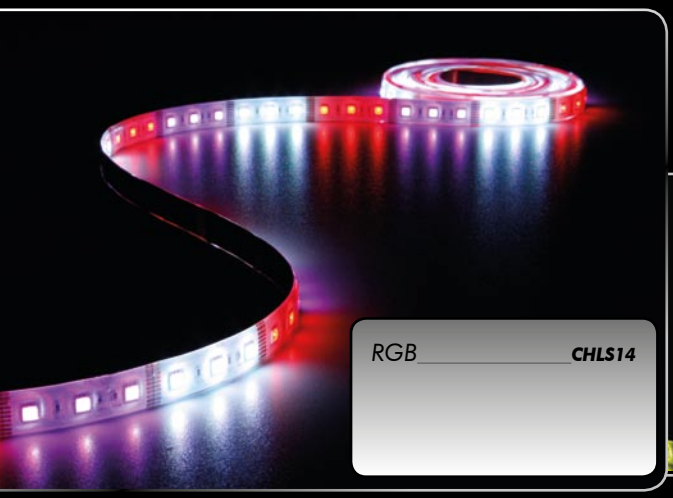
White ___ ***CHLS9W***
Warm white ___ ***CHLS9WW***

SPECIAL LED STRIPS

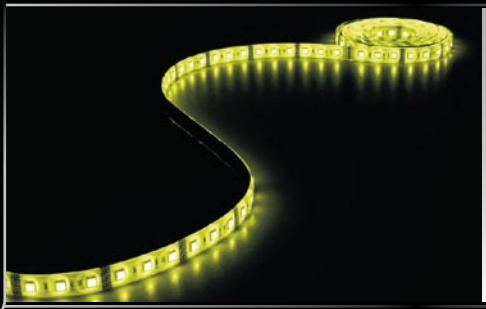
FLEXIBLE ANIMATED RGB LED "DATA" STRIP

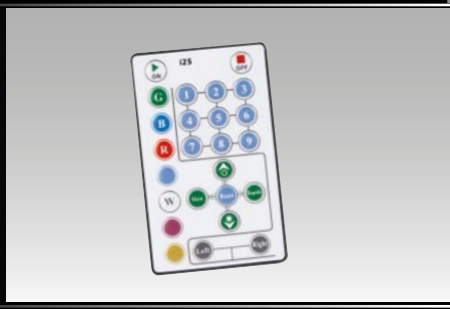
Animated LED strip with 3 separate controlled segments. RGB controller with IR remote control and different animation programs. Contains 270 high brightness LEDs. Suitable for illuminated advertising and marking. Self-adhesive. It's possible to connect 2 strips to the same controller.

12V | 5M x16mm | 16.4ft x5/8" | 270 LEDs | type 5050



RGB **CHLS14**

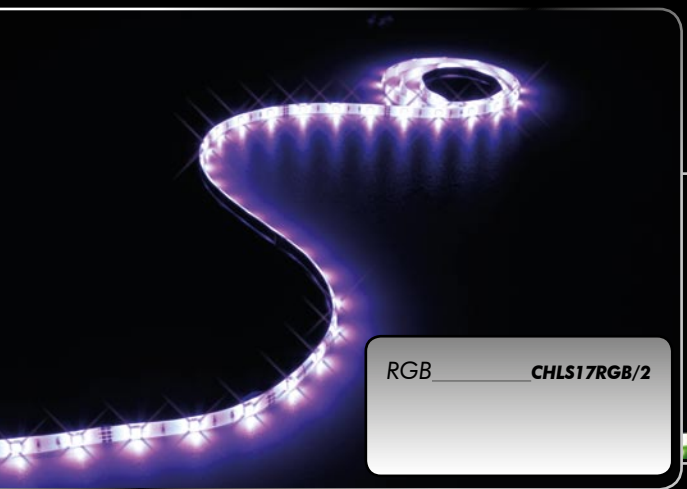




KIT WITH FLEXIBLE LED STRIP AND CONTROLLER

Supplied with remote control.

12V | 2M x10mm | 6.56ft x25/64" | 60 LEDs | type 5050

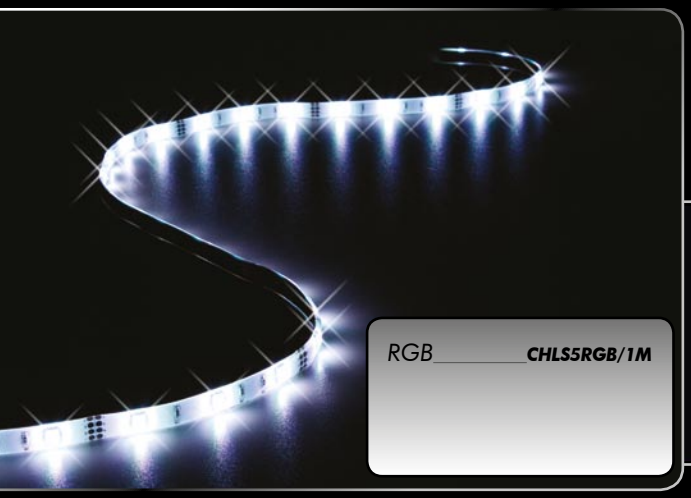


RGB **CHLS17RGB/2**

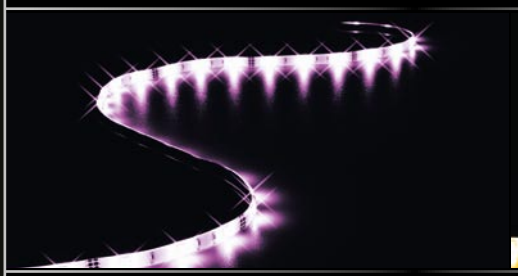
FLEXIBLE 1m/3ft LED STRIP

RGB LED strip for easier installation.

12V | 1M x10mm | 3.28ft x25/64" | 30 LEDs | type 5050



RGB _____ **CHLS5RGB/1M**



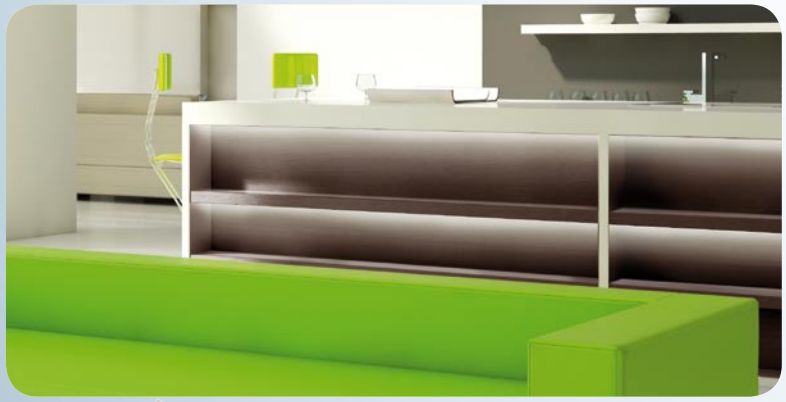
MAXIMUM DISTANCE

The more LED strips you connect, the greater the power consumption and the greater the current. Since the wiring in an LED strip is very thin, it can only handle a limited amount of current without being damaged irreversibly. Do not hesitate to ask your vendor for more details, he will inform you of the maximum length your LED strip installation can handle.

FLEXIBLE LED MODULES

COMPATIBLE WITH CHLS4RGB

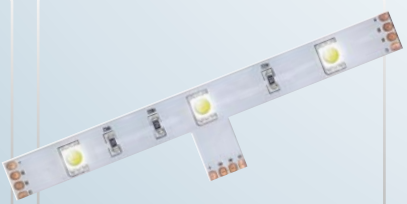
12V | width: 10mm 25/64" | type 5050



50cm/1.64ft: 15 LED _____ **CHLS80**

1m/3.28ft: 30 LED _____ **CHLS81**

Corner • 3 LEDs _____ **CHLS82**



T-shape • 3 LEDs _____ **CHLS83**

Connection wire _____ **CHLS84**

OPERATING MODULES

		COLOUR		OPERATION
RGB LED STRIP EFFECT GENERATOR ***VM146***	12VDC 3x3A 24VDC 3x3A	**256 levels/channel** **hard/smooth fade transition effects:** speed adjust, memory, easy select		**pushbutton**
RGB LED DIMMER AND COLOUR SELECTOR - TO BE USED WITH VM118R REMOTE ***VM161***	12VDC 3x3A 24VDC 3x1A	**7 colour tones**	**10** *positions*	**8 channel RF** *VM118R*
LED DIMMER WITH RF REMOTE CONTROL ***VM152***	12VDC 1x6A 24VDC 1x6A	**1** *colour*	**10** *positions* selectable automatic	**pushbutton + 2 channel RF** *VM130T (incl.)*
RGB LED EFFECT GENERATOR WITH RF REMOTE CONTROL ***VM151***	12VDC 3x3A 24VDC 3x1A	**5 user-editable colour tables** **hard/smooth fade transition effects:** speed adjust, memory		**2 channel RF** *VM130T (incl.)*
RGB LED DIMMER AND COLOUR SELECTOR WITH RF REMOTE ***VM162***	12VDC 3x3A 24VDC 3x1A	**7 colour tones**	**10** *positions*	**2 channel RF** *VM130T (incl.)*
RGB LED DIMMER FOR DIN RAIL ***VM150***	12VDC 3x5A 24VDC 3x5A	**7 colour tones** **+ single colour mode**	**19** *positions* selectable	**2 pushbuttons:** possible to connect 2 strips to the same controller
0..10V RGB LED DIMMER FOR DIN RAIL ***VM168***	12VDC 1x5A 24VDC 1x5A	**selectable** slow / fast response	**256** *positions*	

A dimmer is a module connected between the power supply and the single colour LED strip. It controls the light intensity from 0 to 100%.
An RGB controller is a module connected between the power supply and the RGB LED strip. You can choose the desired colour and adjust the brightness of the strip.
Some controllers have built-in programs that can automatically change the colours.

VELBUS

Makes life easy

FOR A PROFESSIONAL FINISH IN INTEGRATING YOUR LED STRIPS, YOU CAN USE OUR RANGE OF HOME AUTOMATION.

FOR MORE INFORMATION
VISIT WWW.VELBUS.EU
OR ASK FOR OUR BROCHURE
FROM YOUR VELBUS DEALER.

control via touchscreen.

wireless control via iPod, iPad, iPhone

control over timer-/pushbutton module (up to 8 buttons)

		COLOUR	OPERATION
1. RGB LED CONTROLLER WITH REMOTE CONTROL ***CHLSC1***	12VDC 3x5A 24VDC 3x5A	20 pre-programmed output modes: single colours, flash, strobe, fade…	pushbutton + 24 buttons IR
2. RGB LED CONTROLLER WITH REMOTE CONTROL ***CHLSC2***	12VDC 3x4A 24VDC 3x1A	fixed modes and changing effects intensity adjustment	24 buttons IR
3. RGB+W LED CONTROLLER WITH DMX AND IR REMOTE ***CHLS16C***	12VDC 3x5A 24VDC 3x5A	4 DMX channels red-green-blue-white 14 modes, colour and speed selection	DMX + 18 buttons IR

RGB POWER SLAVE MODULE 3 X 4A

Add more led strips to your existing controller.

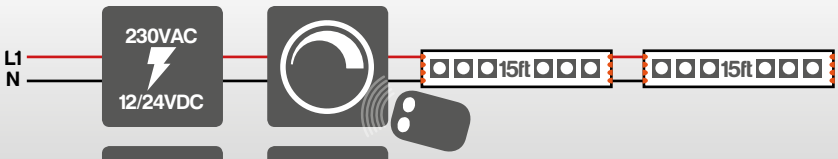
- *every unit adds up to 144W (12V) or 288W (24V)*
- *works with a single power supply or multiple supplies*
- *eases distribution of led strips*
- *allows simultaneous use of 12V and 24V strips*
- *only 4 interconnecting wires required (e.g. CHLWIRE)*

3x 4A 12/24V

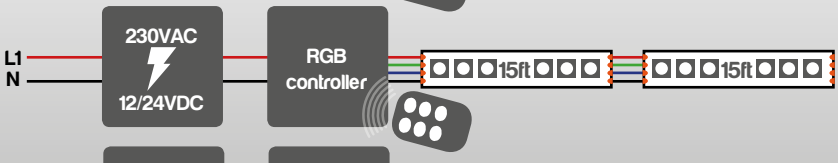
VM169

The following schemes show how several LED strips can be connected consecutively.

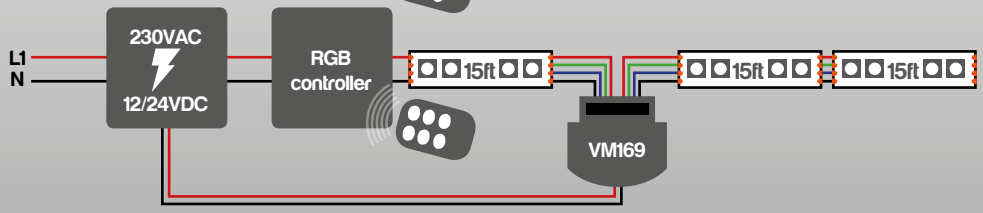
1. WITH DIMMER



2. WITH RGB CONTROLLER



3. WITH SLAVE MODULE VM169

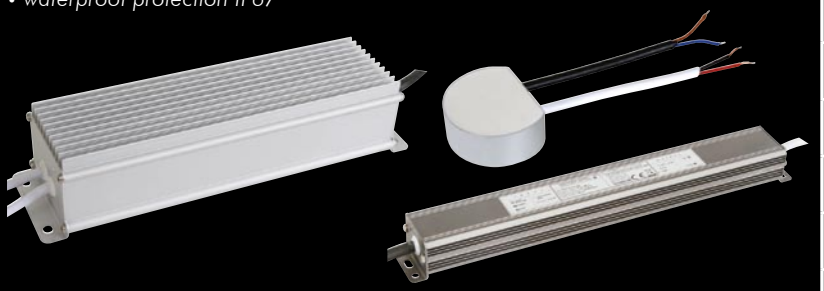


POWER SUPPLIES

CONSTANT VOLTAGE

Use: suspended ceiling, wet places, etc...

- *short circuit protection*
- *overload protection*
- *over voltage protection (255V)*
- *thermal protection (80°)*
- *waterproof protection IP67*



ORDER CODE	W	V	
LPS00512R	5W	12VDC	6.30 x 1.18 x 25/32 inch
LPS01012C	10W	12VDC	ø2.28 x 15/16 inch
LPS01012R	10W	12VDC	6.30 x 1.18 x 25/32 inch
LPS02012R	20W	12VDC	6.30 x 1.18 x 25/32 inch
LPS04512B	45W	12VDC	10.12 x 1.42 x 29/32 inch
LPS04512R	45W	12VDC	10.12 x 1.42 x 29/32 inch
LPS06012R	60W	12VDC	6.18 x 2.64 x 1.97 inch
LPS08012R	80W	12VDC	9.45 x 2.64 x 1.97 inch
LPS10012R	100W	12VDC	9.45 x 2.64 x 1.97 inch
LPS10024R	100W	24VDC	9.45 x 2.64 x 1.97 inch
LPS15024R	150W	24VDC	8.98 x 4.72 x 2.52 inch
LPS20024R	200W	24VDC	8.98 x 4.72 x 2.52 inch

SWITCHING POWER SUPPLY

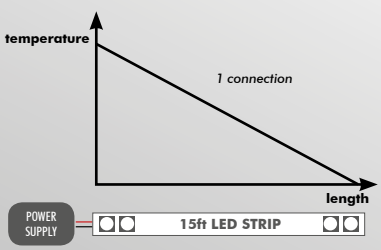
Use: switchboards, inaccessible places (ventilated and dust-free).

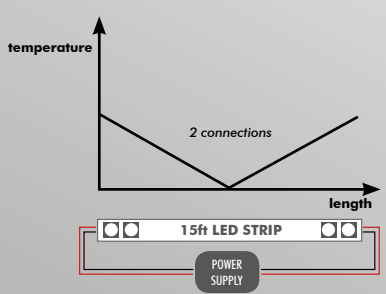
- *cooling: by free air convection*
- *with screw connections*
- *protections:*
  - *short circuit*
  - *overload*
- *auto recovery*
- *100% full load burn-in test*
- *high reliability*

PSIN02512	max . 25W	12VDC	3.94 x 3.82 x 1.38 inch
PSIN02524	max. 25W	24VDC	3.94 x 3.82 x 1.38 inch
PSIN04012	max. 40W	12VDC	3.94 x 3.82 x 1.46 inch
PSIN04024	max. 40W	24VDC	3.94 x 3.82 x 1.46 inch
PSIN06012	max. 60W	12VDC	3.94 x 3.82 x 1.38 inch
PSIN06024	max. 60W	24VDC	3.94 x 3.82 x 1.38 inch
PSIN10012	max. 100W	12VDC	3.94 x 3.82 x 1.38 inch
PSIN10024	max. 100W	24VDC	3.94 x 3.82 x 1.46 inch
PSIN15012	max. 150W	12VDC	3.94 x 4.33 x 1.97 inch
PSIN15024	max. 150W	24VDC	3.94 x 4.33 x 1.97 inch
PSIN30012	max. 300W	12VDC	3.94 x 4.49 x 1.93 inch
PSIN30024	max. 300W	24VDC	3.94 x 4.49 x 1.93 inch

USING AN LED STRIP

By default, an LED strip comes with a 1-wire connection. Under normal conditions, this is sufficient. When an LED strip is used in enclosures, LED profiles or in areas with reduced cooling, it is better to feed the LED strip via 2 connectors. The maximum current in the LED strip is then cut in half, thus ensuring lower operating temperature and a longer life.





SWITCHING POWER SUPPLY - DIN

Use: switchboards, inaccessible places (ventilated and dust-free).

- *with 4 screw connections*
- *protections:*
  - *short circuit*
  - *overload*
- *auto recovery*
- *100% full load burn-in test*
- *high reliability*

ORDER CODE	W	V
PSIN03012D	max. 30W	12VDC
PSIN03024D	max. 30W	24VDC
PSIN06012D	max. 60W	12VDC
PSIN06024D	max. 60W	24VDC

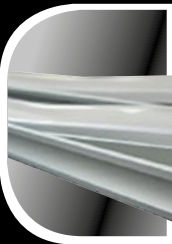
USING THE PROPER POWER SUPPLY

- The operating voltage of the power supply has to match the indicated supply voltage of the LED strip (12 of 24V). It is important that the output voltage of the power supply does not exceed the indicated voltage of the LED strip. The used power supply rating must be higher than the total consumption of all LED strips. In the summary table at the back you can find the consumption of each LED strip per meter. You only need to multiply the used power by the total length of the strip to calculate the total consumption (without exceeding the maximum distance).
- RGB dimmers and controllers are also limited by a maximum current beyond which they can be damaged. So make sure the power you use to feed the LED strip never exceeds the permitted current of the dimmer or RGB controller.

ALUMINIUM LED

PROFILES

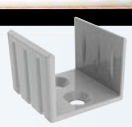
- high-quality anodized aluminium profile for LED strips
- the aluminium profile will provide mechanical and thermal protection for the LEDs
- frosted diffuser for optimal light distribution and to cover the LED strips
- for indoor use only



6.56ft • UV RESISTANT

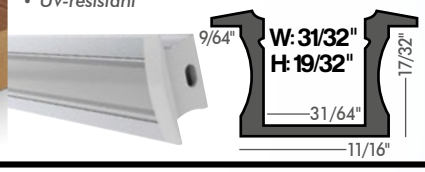
CHLAP1

MOUNTING BRACKET **CHLAPB1**



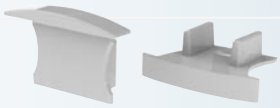
END CUP **CHLAPC1**

BUILT-IN TYPE • 6.56ft
- *recessed profile: to build into e.g. MDF, plaster...*
- *UV-resistant*

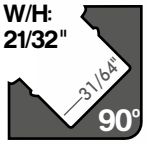


CHLAP2

END CUP **CHLAPC2**

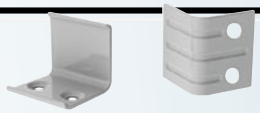


45° • 6.56ft
- *corner profile: to mount LED strips at an 45° inclination angle*
- *UV-resistant*



CHLAP3

MOUNTING BRACKET **CHLAPB3**

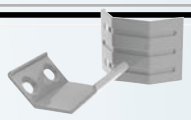


END CUP **CHLAPC3**

45° CORNER • 6.56ft
- *corner profile: to mount LED strips in a corner*
- *UV-resistant*

CHLAP4

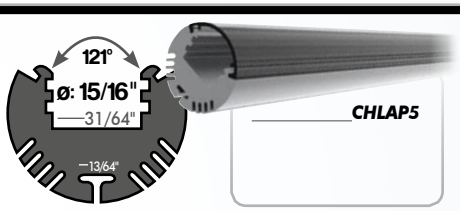
MOUNTING BRACKET **CHLAPB4**



END CUP **CHLAPC4**

CLEAR DIFFUSER • 6.56ft **CHLAPD**
for CHLAP1, CHLAP2, CHLAP3, CHLAP4

ROUND • 6.56ft
- *round profile: to use as light fixture*



CHLAP5

MOUNTING BRACKET **CHLAPB5**

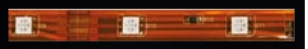
END CUP **CHLAPC5**

WALL LIGHTNING ARM **CHLAPB5L**

WALL ARM **CHLAPB5W**

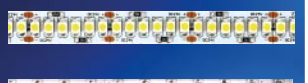
SUPPORT ARM **CHLAPB5S**

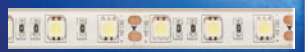
SUMMARY












IP		LED TYPE	NUMBER OF LEDs			V	A/m	W/m	COLOUR	ORDER CODE	
IP61	5m x 10mm 16.4ft x 25/64"	type 5050	150 30/m	3 LEDs = 10cm/3.94"	33 mm 1.3"	12V	0.32A	3.9W		**CHLS4W:** white	DECORATIVE LED STRIPS
							0.34A	4.1W		**CHLS4WW:** warm white	
							0.5A	5.9W		**CHLS4RGB:** RGB	
							0.36A	3.9W		**CHLS4B:** blue	
							0.34A	4.1W		**CHLS4G:** green	
							0.42A	5W		**CHLS4R:** red	
							0.42A	5.1W		**CHLS4Y:** yellow/amber	
IP61	5m x 10mm 16.4ft x 25/64"	type 3528	300 60/m	3 LEDs = 5cm/1.97"	16.5 mm 21/32"	12V	0.3A	3.6W		**CHLS3W:** white	
							0.3A	3.6W		**CHLS3WW:** warm white	
							0.3A	3.6W		**CHLS3B:** blue	
							0.28A	3.4W		**CHLS3G:** green	
							0.34A	4.1W		**CHLS3R:** red	
							0.32A	3.9W		**CHLS3Y:** yellow/amber	
IP61	5m x 12mm 16.4ft x 15/32"	5050+3528	2x150 30/m	6 LEDs = 10cm/3.94"	16.5 mm 21/32"	12V	0.8A	9.6W		**CHLS16RGBW:** RGB-white	
IP61	5m x 10mm 16.4ft x 25/64"	type 5050	300 60/m	6 LEDs = 10cm/3.94"	16.5 mm 21/32"	24V	0.42A	10.6W		**CHLS7W:** white	
							0.42A	10.6W		**CHLS7WW:** warm white	
							0.56A	13W		**CHLS7RGB:** RGB	
							0.44A	11W		**CHLS7B:** blue	
IP61	5m x 10mm 16.4ft x 25/64"	type 5050	300 60/m	3 LEDs = 5cm/1.97"	16.5 mm 21/32"	12V	0.84A	10.6W		**CHLS15W:** white	
							0.84A	10.6W		**CHLS15WW:** warm white	
							0.66A	8.6W		**CHLS15RGB:** RGB	
IP61	5m x 10mm 16.4ft x 25/64"	type 3528	600 120/m	6 LEDs = 5cm/1.97"	8.3 mm 21/64"	24V	0.34A	8W		**CHLS13W:** white	
							0.34A	8W		**CHLS13WW:** warm white	
							0.32A	7.8W		**CHLS13B:** blue	
IP61	5m x 10mm 16.4ft x 25/64"	type 3528	2x300 120/m	6 LEDs = 5cm/1.97"	8.3 mm 21/64"	12V	0.34A	2 x 3.6W		**CHLS18WWWC:** white & warm white	
IP51	5m x 10mm 16.4ft x 25/64"	type 3528	1200 240/m	6 LEDs = 5cm/1.97"	4.2 mm 11/64"	24V	0.84A	20W		**CHLS19W:** white	LED STRIPS FOR LIGHTING
							0.84A	20W		**CHLS19WW:** warm white	
IP61	5m x 15mm 16.4ft x 19/32"	type 3528	1200 240/m	12 LEDs = 5cm/1.97"	8.4 mm 21/64"	24V	0.84A	20W		**CHLS20W:** white	
							0.84A	20W		**CHLS20WW:** warm white	
IP51	5m x 24mm 16.4ft x 15/16"	type 3528	900 180/m	9 LEDs = 5cm/1.97"	16.7 mm 21/32"	12V	1.16A	14W		**CHLS21W:** white	
							1.16A	14W		**CHLS21WW:** warm white	
IP68	5m x 10mm 16.4ft x 25/64"	type 5050	150 30/m	3 LEDs = 10cm/3.94"	33 mm 1.3"	12V	0.32A	3,9W		**CHLS11W:** white (9000K)	WATER PROOF LED STRIPS
							0.34A	4.1W		**CHLS11WW:** warm white	
							0.5A	7.2W		**CHLS11RGB:** RGB	
							0.32A	3.9W		**CHLS11B:** blue	
IP68	5m x 12mm 16.4ft x 15/32"	type 5050	300 60/m	3 LEDs = 5cm/1.97"	16.7 mm 21/32"	12V	1.2A	15W		**CHLS22W:** white	
							1.2A	15W		**CHLS22WW:** warm white	
							1.2A	15W		**CHLS22RGB:** RGB	
IP68	5m x 8mm 16.4ft x 5/16"	type 335	300 60/m	3 LEDs = 5cm/1.97"	16.5 mm 21/32"	12V	0.36A	4,4W		**CHLS9W:** white	
							0.36A	4,4W		**CHLS9WW:** warm white	
IP61	5m x 16mm 16.4ft x 5/8"	type 5050	270 54/m		18 mm 45/64"	12V	0.8A	9W		**CHLS14:** RGB	SPECIAL LED STRIPS
IP61	2m x 10mm 6.56ft x 25/64"	type 5050	60 30/m	3 LEDs = 10cm/3.94"	33 mm 1.3"	12V	0.550A	6.25W		**CHLS17RGB/2:** RGB	
IP61	1m x 10mm 3.28ft x 25/64"	type 5050	30 30/m	3 LEDs = 10cm/3.94"	33 mm 1.3"	12V	0.525A	7.4W		**CHLS5RGB/1M:** RGB	
	0.5m x 10mm 1.64ft x 25/64"	type 5050	15 30/m		33 mm 1.3"	12V	0.5A	6W		**CHLS80:** RGB, 50cm	
	1m x 10mm 3.28ft x 25/64"		30 = 30/m				0.5A	6W		**CHLS81:** RGB, 1m	
	6cm x 10mm 0.2ft x 25/64"		3				0.933A	11.3W		**CHLS82:** RGB, corner	
	10.5cm x 10mm 0.34ft x 25/64"		3				0.933A	11.3W		**CHLS83:** RGB, T-shape	

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