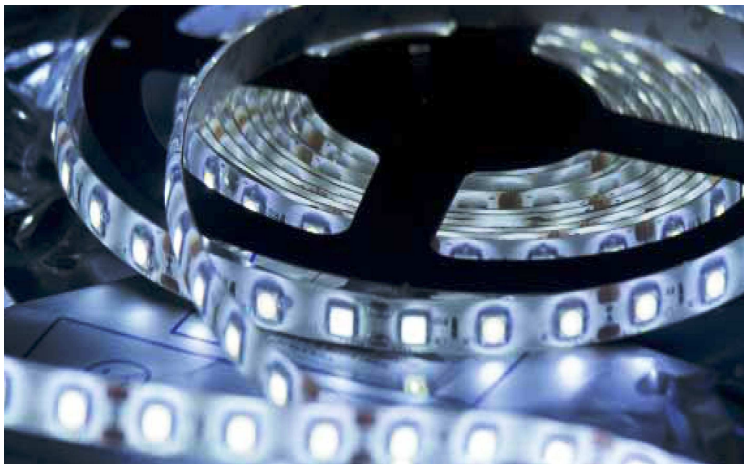
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Electrical components for lighting

Prolight

LED strip lights - characteristics



Adhesive strip LED lights, width 8mm, white light, supplied in 5m coils which customers can cut to size every 5cm, following the lines provided.
They have 120 LEDs every metre, they draw 9.6 Watt/metre and should be connected to a 24V DC power pack.
IP33 rated.
Available in neutral white light (4000K) or warm white light (3000K).



Adhesive strip LED lights, width 8mm, white light (11mm with sheath), supplied in 5m coils which customers can cut to size every 5cm, following the lines provided.
They have 120 LEDs every metre, they draw 9.6 watt/metre and should be connected to a 24V DC power pack.
Covered in a silicone sheath, IP67 rated for damp environments.
Available in neutral white light (4000K) or warm white light (3000K).
When cutting to the desired length, seal the ends with an appropriate silicone sealant.



Adhesive strip RGB LED lights, width 10 mm, coloured light (13 mm with sheath), supplied in 10 cm coils which customers can cut to size every 10cm, following the lines provided.
They have 60 LEDs every metre, they draw 14.4 watt/metre and should be connected to a 24V DC power pack.
Covered in a silicone sheath, IP67 protection for damp environments.
When cutting to the desired length, seal the ends with an appropriate silicone sealant.



Adhesive NT LED strips with white light 4000 ° K neutral color.
Degree of protection IP65 (width 8 mm), IP67 (width 10 mm).
Supplied in 5-meter reels, they can be cut to size by the customer every 5.5 cm along the lines indicated.
Consumption is 10 Watt / meter and must be connected to a 24V DC power supply.
Thanks to the new technology, the beam of light produced is uniform, reducing the dotted effect typical of traditional LED strips.

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FOR LQL/2 AND SKL/2 PROFILES
Non-adhesive LED strips with neutral white side light 4000 ° K protection degree IP65.
Width with sheath 11 mm, supplied in reels of 5 meters, they can be cut to size by the customer every 5 cm along the lines indicated.
They have 120 LEDs per meter, consumption is equal to 9.6 Watt / meter and must be connected to a 24V DC power supply.
Once cut to the desired length, it is recommended to seal the ends with a suitable silicone sealant.

Power units - characteristics



Power units for LED lights with input voltage 100/240V AC 50/60Hz, output voltage 24V DC.
Internal board with active PFC, IP67 rated.
Item AL/60/24 max power 60W
Item AL/90/24 max power 90W



Item AL/120/24 max power 120W
Item AL/150/24 max power 150W

Structure the system so that no more than 90% of the maximum rated output of the power unit is used.

Components for white strip LED lights - characteristics



Single channel Dimmer+Fader+Driver for white light LEDs, input voltage of 12/48V DC, output max. 1x10 amps, dimensions mm 44x57x19 h.
To be inserted between the power unit and the LEDs then connected to a push-button switch or remote control receiver to adjust light intensity.
Push menu with possibility to set the dimming minimum, the Fade In and the Fade Out.
Sync connection with Master and Slave function to switch on and dim several lines simultaneously.
For connection information see the instructions sheet inside the product packaging.



Radio remote control (433.92MHz) with four channels.



Receiver for radio remote control, power draw max. 2W, to be connected to 12/24V power unit.
For connection and programming information see the instructions sheet inside the product packaging.

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2-pole electric cable, red/black, for white light strip LED lights.
Available in diameter 0.5 mm^2 and 1 mm^2.



Quick-connect coupling for white light strip LEDs.
For connection information, see instructions on packaging.



Quick-connect coupling, 3 cables.
For connection information, see instructions on packaging.

Components for coloured light strip RGB LED lights - characteristics



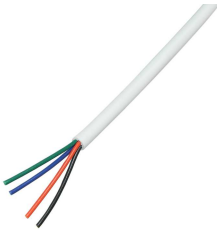
4-Channel remote control for coloured light strip RGB LED lights, radio frequency 433.92MHz.
For connection and programming information see the instructions sheet inside the product packaging.



Master control and operating unit, coloured light strip RGB LED lights, dimmer/wireless.
For connection and programming information see the instructions sheet inside the product packaging.



Slave unit for coloured light strip RGB LED lights, max. 4 slaves for every master.
Connected to master control unit via RJ11 6-pole cable (not supplied), to control more than one line from the same remote control.
For connection and programming information see the instructions sheet inside the product packaging.



4-pole electric cable for coloured light strip RGB LED light.
Comprising three cables (red, blue and green), diameter 0.5 mm^2 + 1 black cable, diameter 1 mm^2.



Quick-connect coupling for coloured light strip RGB LEDs.
For connection information, see instructions on packaging.

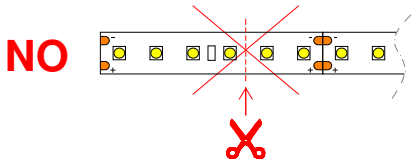


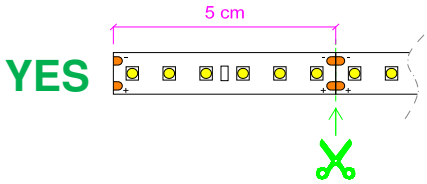
Quick-connect coupling for coloured light strip RGB LEDs.
For connection information, see instructions on packaging.

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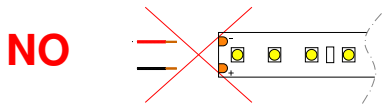
Installation tips for white light strip LEDs

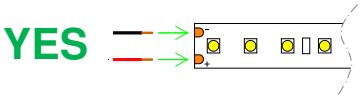
- Measure the section where you want to position the strip LED light and cut the coil at the indicated sections.



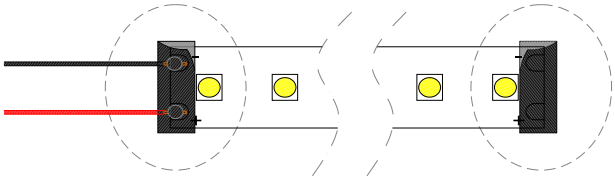


- Solder the cables, being careful not to invert the poles.





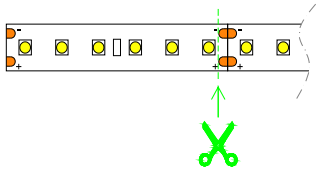
- Carefully isolate the beginning and end of the cables to prevent any contact and/or electrical dissipation with metal profiles.

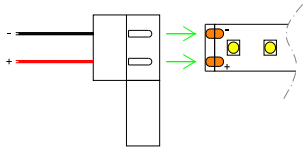


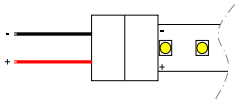
- If quick-connect couplings, such as our item IR/W3, code 84410, are used to join cables, check they are well attached and won't come off when securing the profile.



- When using connector IR/C01, item no. 84411, cut the LED strip at the point shown in the diagram.
When connecting the parts, be careful not to invert the cable polarity.



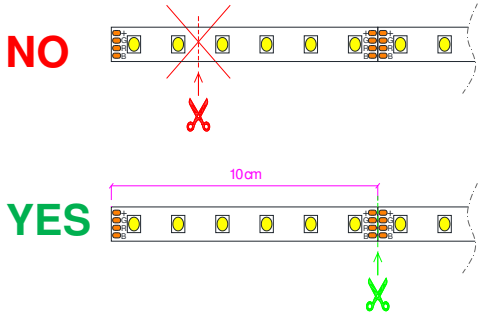




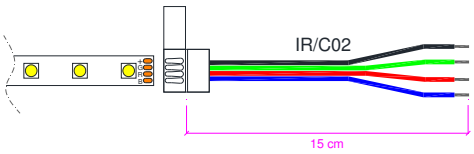
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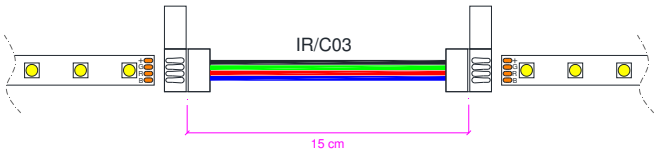
Installation tips for coloured light RGB LEDs

- Measure the section where you want to position the strip LED light and cut the coil at the indicated sections.

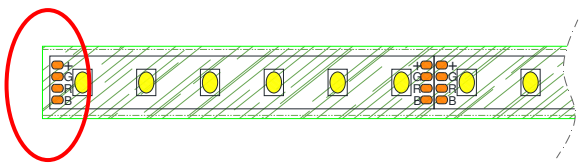


- When connecting the parts, be careful not to invert the cable polarity.





- We recommend sealing the end of the LED strips well to make sure water cannot enter, in the event IP67 rating must be maintained.



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Electrical components for lighting



L5/.../33



L5/.../67

ELECTRICAL COMPONENTS AND ACCESSORIES FOR LIGHTING

ART.	description	
L5/NW/33	spool 5 m LED strip colour neutral white 4000° K - 9,6W/m - IP33	84105
L5/WW/33	spool 5 m LED strip colour warm white 3000° K - 9,6W/m - IP33	84115
L5/NW/67	spool 5 m LED strip colour neutral white 4000° K - 9,6W/m - IP67	84125
L5/WW/67	spool 5 m LED strip colour warm white 3000° K - 9,6W/m - IP67	84135
L5/RGB/67	spool 5 m RGB LED strip - 14,4 W/m - IP67	84140
L5/NW/65NT	spool 5 m NT LED strip neutral white colour 4000° K - 10W/m - IP65	84118
L5/NW/67NT	spool 5 m NT LED strip neutral white colour 4000° K - 10W/m - IP67	84122



AL/.../24

DIMM/02





TEL/04



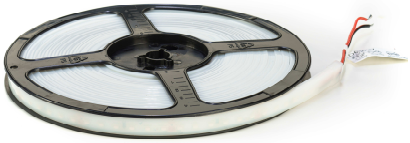
TEL/RGB/04



RIC/01

AL/60/24	power supply IP67 - PFC active - 24Vdc/60W	84150
AL/90/24	power supply IP67 - PFC active - 24Vdc/90W	84152
AL/120/24	power supply IP67 - PFC active - 24Vdc/120W	84154
AL/150/24	power supply IP67 - PFC active - 24Vdc/150W	84156
DIMM/02	dimmer/driver 24V/10 Amp - dim. mm 57x44x19 h. for white LED light	84187
TEL/04	4- channel radio frequency remote control	84182
RIC/01	4- remote control receiver radio frequency	84184
TEL/RGB/04	4 channel radiofrequency remote control 433,92MHz for RGB LED diam. 80x13 h	84183

FOR LQL/2 AND SKL/2 PROFILES



ELECTRICAL COMPONENTS AND ACCESSORIES FOR LIGHTING

ART.	description	
L5/NW/65 L	spool 5 m LED strips, lateral light, neutral colour 4000 °K, 9,6W/m IP65	84136

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Electrical components for lighting



RIC/RGB/...



CE/5/20
CE/10/...



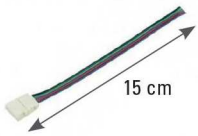
CE/RGB/20



IR/C01

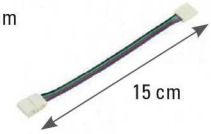


IR/W3



15 cm

IR/C02



15 cm

IR/C03



IR/C01NT



IR/C01NT

RIC/RGB/M	master control unit with dimmer functiona/wireless for RGB LED diam. 174x46x35 h	84185
RIC/RGB/S	slave control unit whit dimmer function for RGB LED (maximum 4 slave for each master)	84186
CE/5/20	electrical cable sect. 0,5 mm² - pack 20 ml	84420
CE/10/20	electrical cable sect. 1 mm² - pack 20 ml	84422
CE/10/100	electrical cable sect. 1 mm² - pack 100 ml	84424
CE/RGB/20	electrical cable for RGB LED section 3x0,5 mm² + 1x1 mm² - pack 20 m	84426
IR/C01	rapid fit connector for strip LED white light - pack 10 pcs	84411
IR/W3	rapid fit connector 3 cables - pack 10 pcs	84410
IR/C02	rapid fit connector RGB LED strip - pack 10 pcs	84415
IR/C03	rapid fit double connector RGB LED strip - pack 10 pcs	84416
IR/C01NT	rapid fit connector for NT LED strip white light - pack 10 pcs	84413

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HOW TO ORDER THE ELECTRICAL COMPONENTS

LED (white light)

Measure how many meters of LED strip have to be positioned on our profiles. A spool is 5 meters long. Spools have 120 LED every meter. The voltage is 24 volt. The consumption is 9,6 watts every meter. To determine the consumption, length must be multiplied by 9,6 watts.

Example: calculation of the watts consumption = 7,4m x 9,6W = 71 total watts

Choose the colour of the light. LED strips are available in neutral white light (4000 °K) or warm white light (3000 °K).
Choose the degree of protection: IP33 for inside and dry spaces, IP67 for outside or moist spaces.

POWER SUPPLIES

Choose the suitable power supply on the basis of the total watts and so as not to exceed 90% of the maximum power.

Example: 71W : 90 x 100 = 79W - use a power supply of 90W

	ART.		
from 5 cm to 5,5 m	60W	AL/60/24	84150
from 5,6 m to 8,4 m	90W	AL/90/24	84152
from 8,5 m to 11,2 m	120W	AL/120/24	84154
from 11,3 m to 14 m	150W	AL/150/24	84156

We recommend to power the LED strips every 3 meters in order to avoid differences in brightness and the overheating of the LED in the initial part of them. A cable with 1 mm² section has a maximum range of about 4 Amp and a voltage drop of 1 Volt every 10 meters. For special installations, please contact our Technical Department.

DIMMER (optional)

The dimmer/fader/driver has the function to adjust the light intensity of LED light, it supports maximum 10 Amp to an equal extent of 25 linear meters of our LED strip. It must be placed between the power supply and the LED strip and connected to a switch (not supplied) and/or to the receiver of the remote control (optional).

In case of more lines with simultaneous turning on, the first dimmer is connected in Sync mode and it will switch on the consecutive dimmers.

Example: to connect 3 lines with simultaneous turning on, you need to use 3 dimmers.

REMOTE CONTROL + RECEIVER (optional)

The remote control is a radiofrequency and can control up to 4 channels; it is used to turn on/off the LED.

The receiver must be installed between the power supply and the LED strip or connected to the dimmer if present.

If there is also the dimmer, the remote control can adjust the LED light intensity.

ELECTRICAL CABLES

The cables are necessary to connect the power supply to the LED strips where needed.

A cable with 1 mm² section has a maximum range of about 4 amps and a voltage drop of 1 volt every 10 meters.

CONNECTORS

Art. IR/C01 connects the LED strips to the line of power supply.
Art. IR/W3 connects maximum 3 cables among them.

LED RGB (coloured light)

Measure how many meters of LED strip have to be positioned on our profiles. A spool is 5 meters long. Spools can be cut every 10 cm. The voltage is 24 volt. The consumption is 14,4 watts every meter. To determine the consumption, length must be multiplied by 14,4 watts.

Example: calculation of the watts consumption = 7,4m x 14,4W = 106,6 total watts

RGB LED strips are available in degree of protection IP67, are covered with silicone sheath and are provided with adhesive for the fastening in inside or outside spaces.

POWER SUPPLIES

Choose the suitable power supply on the basis of the total watts and so as not to exceed 90% of the maximum power.

Example: 106,60W : 90 x 100 = 118W - use a power supply of 120W

	ART.		
from 10 cm to 3,7 m	60W	AL/60/24	84150
from 3,8 m to 5,5 m	90W	AL/90/24	84152
from 5,6 m to 7,5 m	120W	AL/120/24	84154
from 7,6 m to 9,3 m	150W	AL/150/24	84156

We recommend to power the LED strips every 3 meters in order to avoid differences in brightness and the overheating of the LEDs in the initial part. A cable with 1 mm² section has a maximum range of about 4 amp and a voltage drop of 1 volt every 10 meters. For length over 9,3 meters, see SLAVE paragraph. For special installations, please contact our Technical Department.

REMOTE CONTROL

The remote control is a radiofrequency and can control up to 4 channels; it is used to turn on/off the LED, adjust light intensity and choose the colour or the sequence of LEDs.

MASTER CONTROL UNIT

Connected with the remote control, it is used to turn on/turn off/adjust light intensity and to choose the colour or the sequence of LEDs.

It must be connected between the power supply and the LED strip.

SLAVE CONTROL UNIT

Every time that the system needs more lines controlled by just one unit, there is the need to add 1 slave for every added line.

Example: to connect 3 lines with simultaneous lighting, you need to use 1 master control unit and 2 slave control units.

The slave control unit must be connected to the master control unit with RJ11 6-poles cable (not supplied).

ELECTRICAL CABLES

The cable has 4 poles, 3 of them have a 0,5 mm² section (for the three colours), one of them has a 1 mm² section (for the negative pole).

CONNECTORS

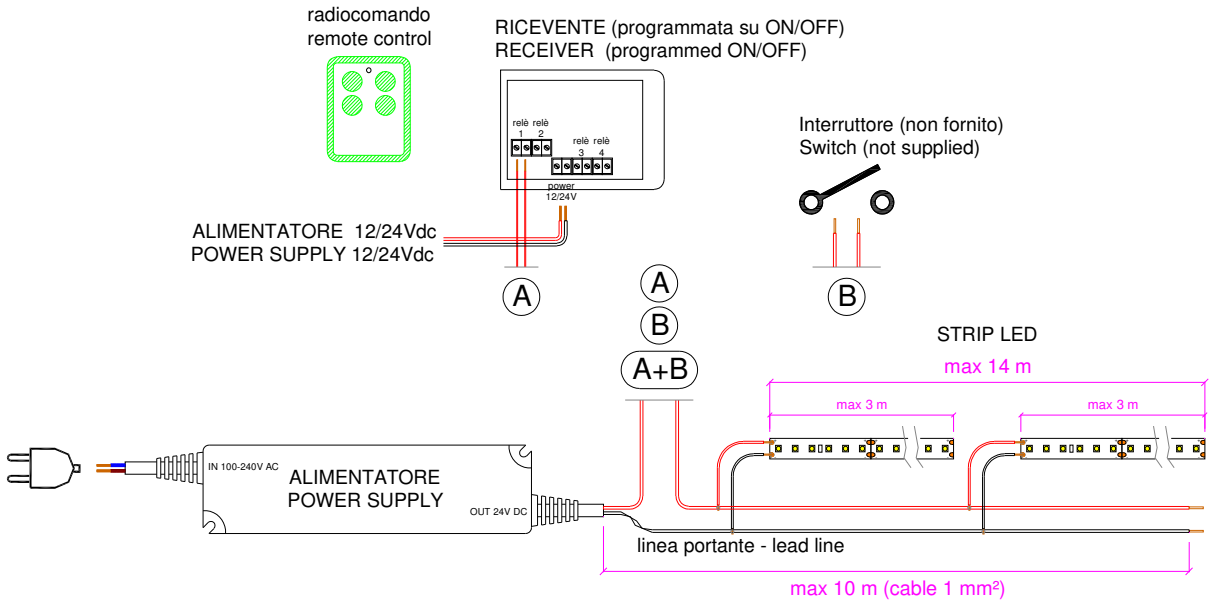
Art. IR/C02 connects the LED strips with coloured light to the line of power supply, length of 15 cm.
Art. IR/C03 connects LED strips to LED strips with coloured light, length of 15 cm.

We recommend to assign the assembly of the electrical components to qualified staff.

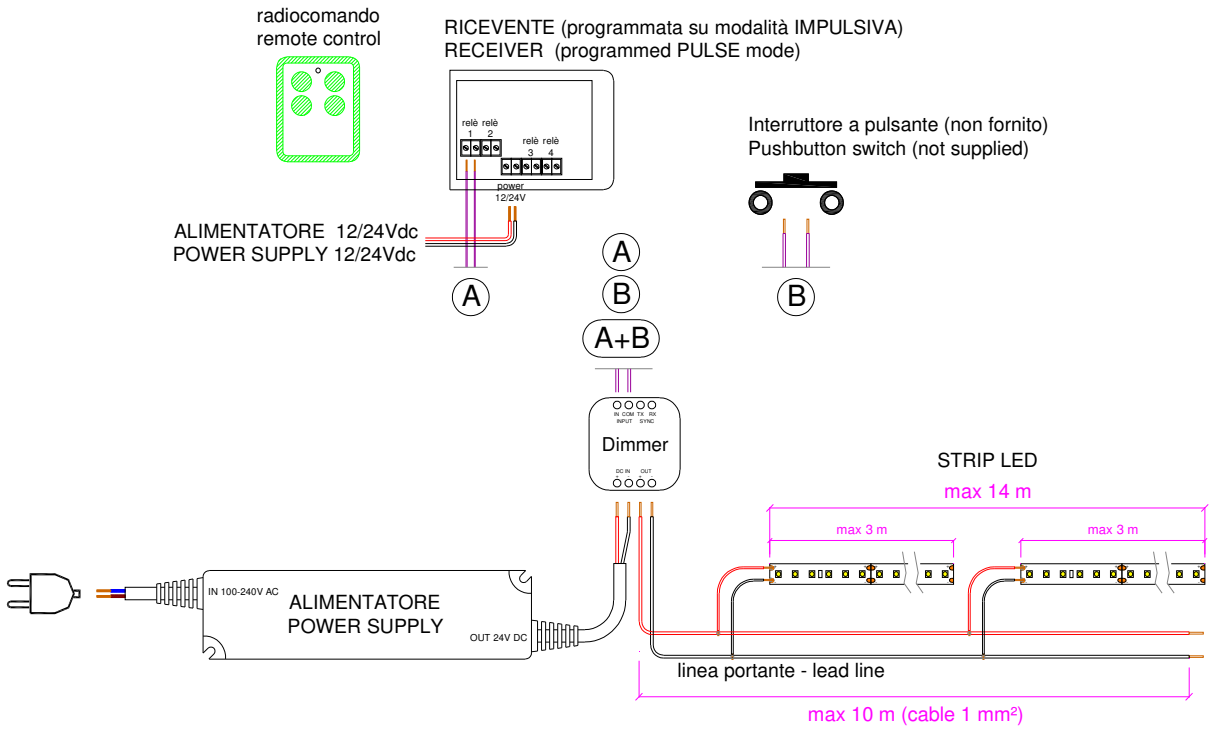
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Assembly diagrams

A — Schema montaggio tipo A (senza dimmer) / Type A mounting scheme (without dimmer)



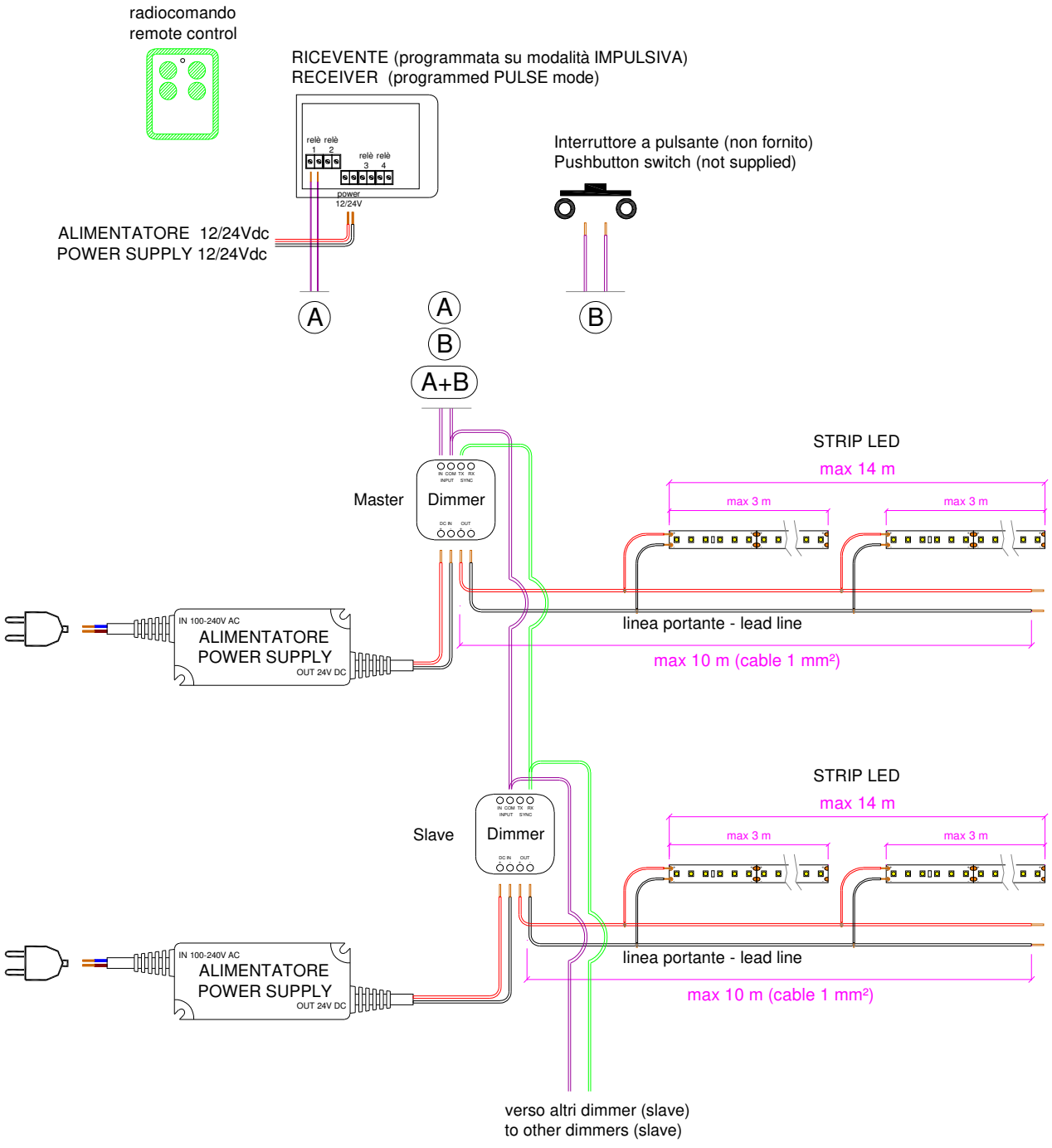
B — Schema montaggio tipo B (con dimmer) / Type B mounting scheme (with dimmer)



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C

Schema montaggio tipo C (con dimmer + linee)
Type C mounting scheme (with dimmer more lines)

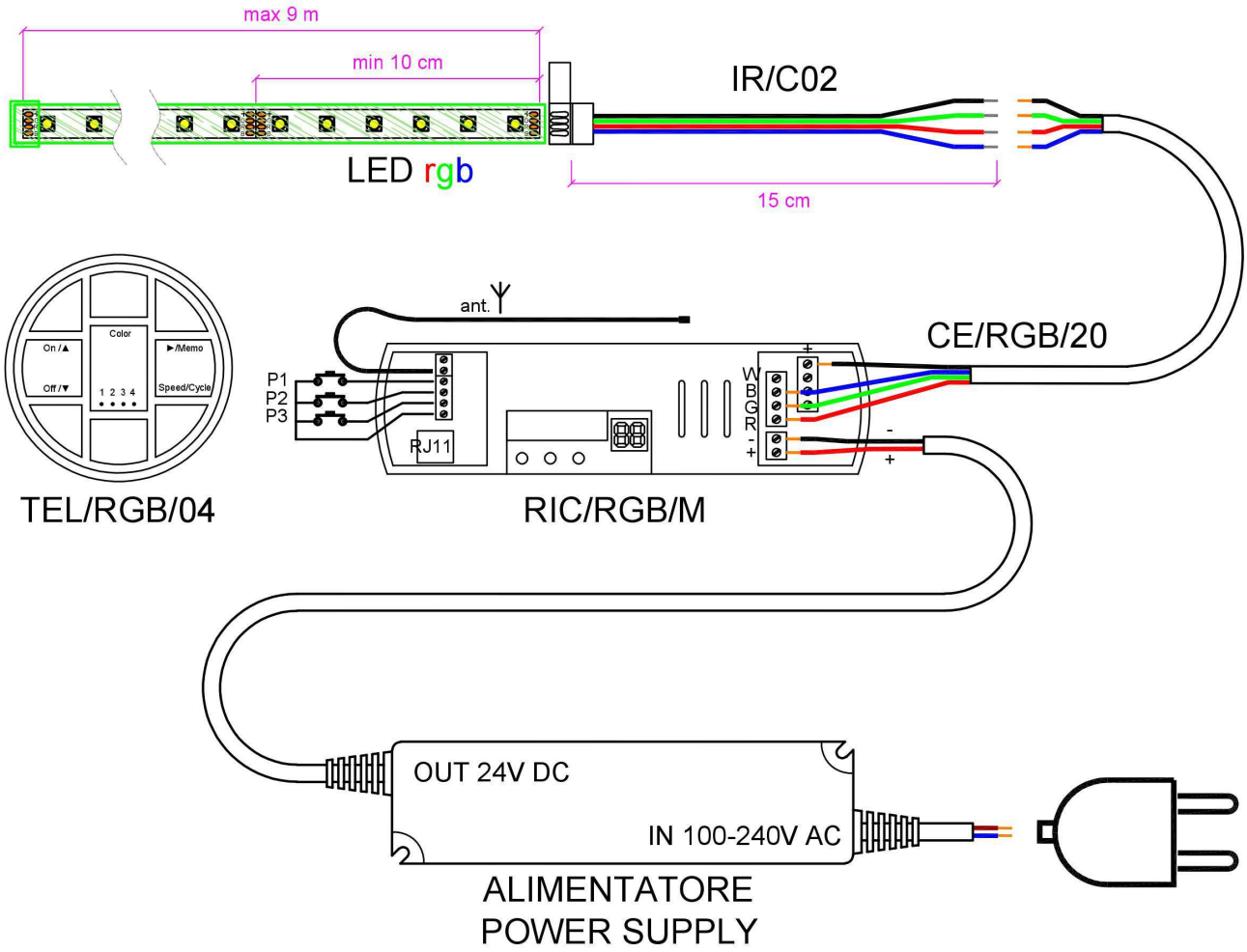


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rgb	A - Schema montaggio LED rgb
	A - Mounting scheme LED rgb

Si raccomanda di sigillare bene le testate delle strip LED onde evitare infiltrazioni d'acqua nel caso sia necessario mantenere la classe IP67

It's recommended to seal the heads well of the strip LED to avoid infiltration of water if necessary keep the IP67 class



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rgb

B - Schema montaggio LED rgb Master+Slave
B - Mounting scheme LED rgb Master+Slave

