# PROLUMIAFLEX II



# **OPERATING INSTRUCTION**

46000217	Lumiaflex II RGB, 24Vdc, 12W/m, SMD 5050 LED, 60LED/m, 5m set
46000227	Lumiaflex II RGB, 24Vdc, 12W/m, SMD 5050 LED, 60LED/m, 10m set
4600021x	Lumiaflex II Single color, 24Vdc, 12W/m, SMD 2835 LED, 72LED/m, 5m set



#### NOTITIES • NOTES • NOTES • POZNÁMKY • NOTIZEN

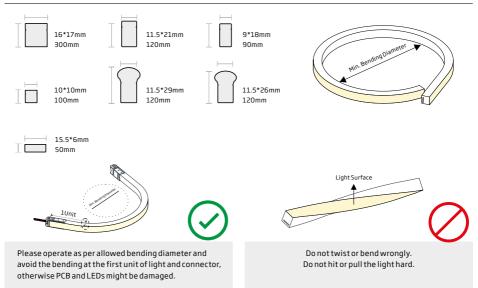

# Precaution

#### Installation Temperature

PVC			Silicone	
	Ambient Installation Temperature 0 ~ 45°C /32~113°F		Ambient Installation Temperature -40 ~ 50°C /-40~122°F	
	Max. Mounting Surface Temperature* 60°C /140°F		Max. Mounting Surface Temperature* 85°C /185°F	

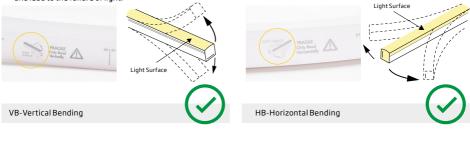
\*Non-working state of light

#### Min. Bending Diameter



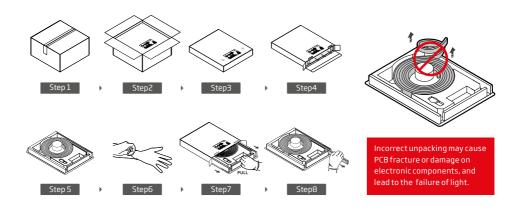
#### **Bending Direction**

Please note and follow the bending mark on the light body, otherwise it may cause the PCB damage and lead to the failure of light.

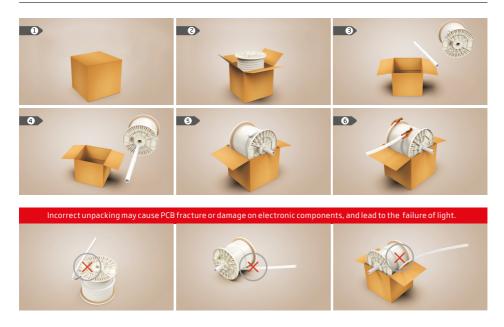


# Unpacking

#### White Box Packaging

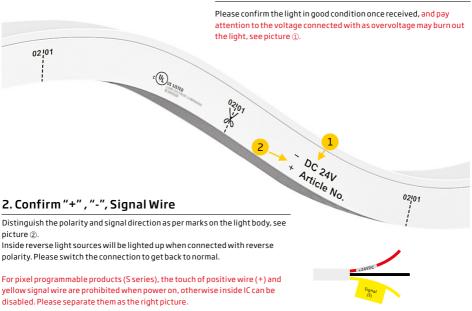


#### **Reel Packaging**



# **Lighting Test**

#### 1. Check Working Voltage



#### 3. Lighting

Please do not light up the products over 30 minutes in the coil package, otherwise it may cause the overheating of light and lead to the damage on housing material and inside electronic components.

If you need to do some aging test for the light, please uncoil it to ensure enough space for heat dissipation.



For pixel products in white, the brightness will be one-third of the normal one when power on disconnected with signal wire, while blue will be displayed when comes to pixel products in RGB or RGBW.

# Connector

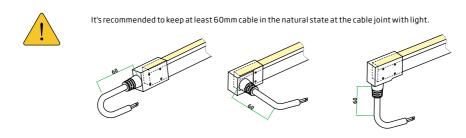
#### **Connector Selection**

 IP20
 IP40
 IP67
 IP68

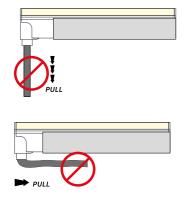
 Swivel Connector
 Sleeve Connector
 Snap Connector
 Dual Injection-moulded Connector

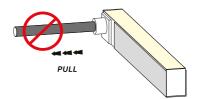
 PVC Injection-moulded Connector
 Silicone Injection-moulded Connector
 Silicone Injection-moulded Connector

#### **Cable Requirement**



Do not pull the cable, otherwise it may disable the function of the connector and lead to water ingression.





### Connector

#### Glue on Connector

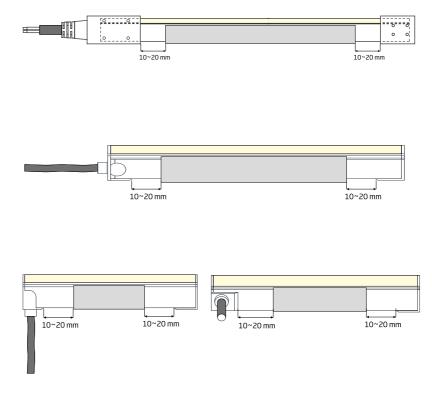


It's not recommended to glue on the space between connector and profile or mounting surface, otherwise the seam might occur at the cable joint with light due to the pulling force generated by contraction and expansion of the light and mounting surface, and then resulted in water ingression and the failure of product.

#### Placement of Connector



It's recommended to reserve 10~20mm distance between the connector and mounting profile, otherwise the connector might be damaged due to contraction and expansion of the light and displacement of mounting profile, and then resulted in water ingression and the failure of product.



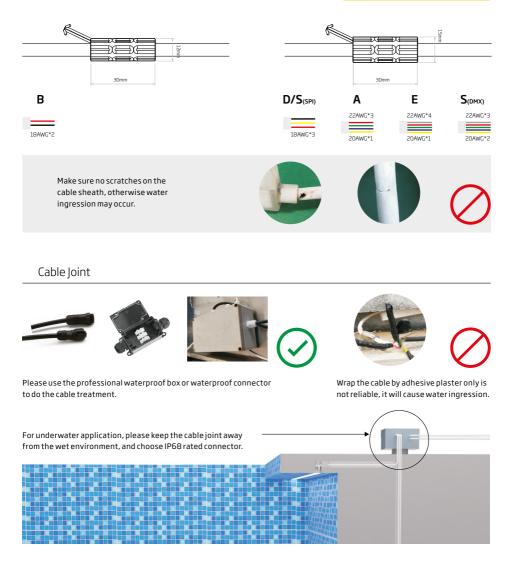
# Cable

#### Anti-wicking Ferrule



1. The removal of anti-wicking ferrule will increase the risk of water ingression and void the warranty out of it.

2. For underwater application, do not immerse antiwicking ferrule in the water. The anti-wicking ferrule is designed to lower the risk of water ingression from the cable in case of inadequate waterproof preatment on site, waterproof performance can't solely rely on the anti-wicking ferrule of connector, waterproof treatment at cable joint is also important.



# Profile

#### Profile Processing

- 1. It's not recommended to process the profile without any protection by finishing or coating, etc.
- 2. If any similar demands, please keep the profile clean after processing.
- 3. For the profile involved the serrated tape, please take its serrated tape out to avoid being deformed and useless affected by the high temperature generated, or discuss with the manufacturer to separate the package in advance.

Serrate Tape



#### **Profile Cutting**



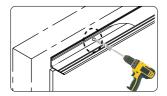
Make sure the crosssection of profile is smooth without any burrs when cutting, otherwise the light housing will be impaled and cause water ingression.



Round Head

For the profiles involved serrated tape, in case of any drop of serrated tape after cutting, please insert and fix it to the profile by a few adhesive glues on its backside, 5~8mm diameter of touching area is enough. Make sure its round head on the edge is downward when putting back.

#### **Profile Installation**





Install the screw into position and ensure the screw head is in line with or lower than the base of aluminum profile.



Place the rubber expansion bolt to assist with the screw fixation if the mounting surface is rigid.



Make sure no debris in the profile before installation to avoid the light housing being impaled and cause water ingression.



Make sure no bulges on the slot to avoid the damage on the light and cause water ingression.



Do not use the profile deformed seriously.



It's recommended to mount in place at a time when using the bendable aluminum profile in case of any break due to the frequent repeated shaping.

# Profile

#### **Profile Jointing**



1. Please reserve at least 5mm for profile jointing to enable enough space for contraction and expansion.



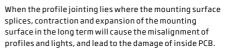
2. The profiles can be jointed to a right angle only if there are two pieces of lights connected to be a right angle.

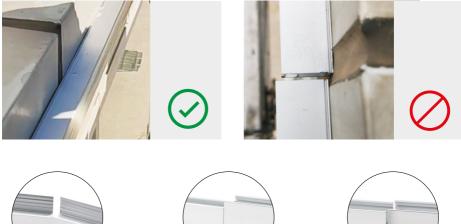


3. For the curve shaping of light, make sure to leave enough space to separate profiles in between or use the bendable profile instead.

#### 4. Splice Structure on Mounting Surface

In the case of an outdoor mounting surface with the splice structure, please make sure the mounting profile goes across the gap or separate the light and profile as per the splice structure.







Angular Misalignment

Parallel Horizontal Misalignment

Above wrong misalignments will make the light improperly bent, and lead to the wrinkle or fracture on PCB.

Parallel Vertical Misalignment

# **Light Installation**



It's not recommended to install the light repeatedly, otherwise the light inside might be damaged.



Make sure the light is fitted in vertically.



Press the light into the profile by the palm instead of the finger, otherwise it might damage inside electronic components due to the overpressure caused.



Make sure the angle between the light and profile is not bigger than 15°, otherwise inside PCB might be damaged.

Make sure the light body is not scratched during installation, otherwise the light housing will be impaled and cause water ingression.



When light length > 2m, make sure somebody helps to lift the light, in case the heavy weight of light itself generates too small bending angle or twisting, which may damage inside PCB.



# **Light Uninstallation**



Prepare a screwdriver, and put the screwdriver at the bottom of light.



Once the end of light is out, hold both sides of light by hand and pull it out along the profile slowly and orderly.

Make sure the angle between the light and profile is not bigger than 15°, otherwise inside PCB might be damaged.

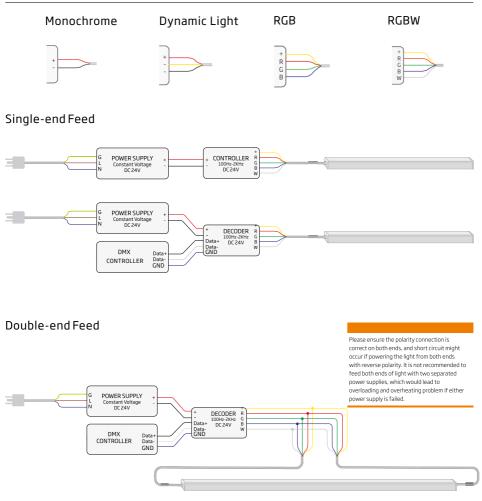


Move the screwdriver and unclench the light upwardly. Be careful the angle between the light and profile should not be bigger than 15°.



When light length>2m, make sure somebody helps to lift the light, in case the heavy weight of light itself generates too small bending angle or twisting, which may damage inside PCB.

# A/B/D/E Series

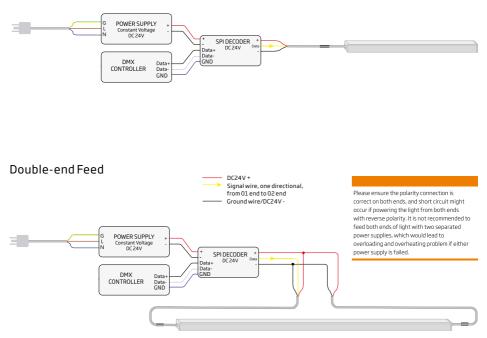


Note:

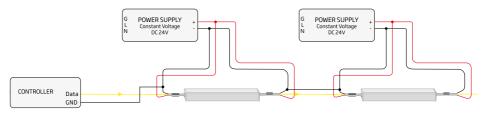
A decoder is unnecessary if the controller or dimmer can control the light directly. In this case, its connection position and way are the same as the above decoder's.

# SPI Pixel Light

#### Single-end Feed



In Series



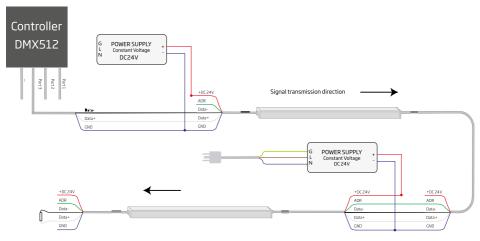
Note:

A decoder is unnecessary if the controller can control the light directly. In this case, its connection position and way are the same as the above decoder's.

Please make sure the ground wire of controller and the negative wires of light are all connected well to form a current loop and carry out signal transmission.

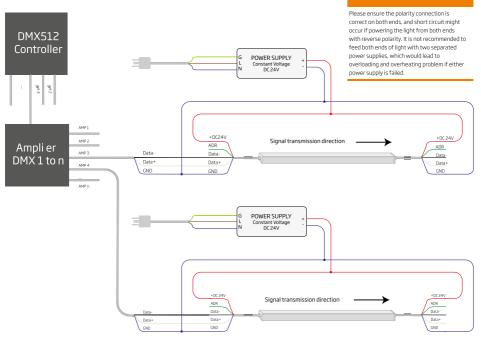
# DMX Pixel Light

#### Single-end Feed



120Ω termination resistor

#### Double-end Feed



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# **PROLUMIA**<sup>®</sup>

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