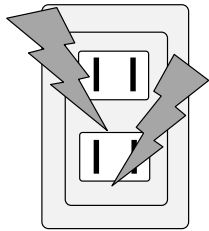# Caution when Installing the Product

Keep the followings to prevent damages, electric shock, fume and fire.
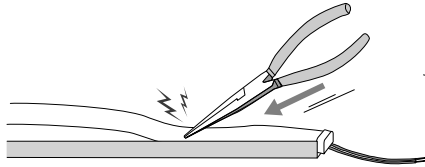
Do not connect to AC power.
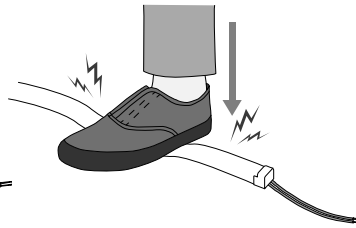
🚫NG!

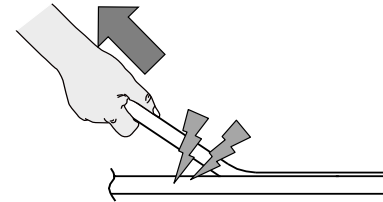**Do not use a tool with sharp point .**

🚫NG!

Do not tramp on or strike the product.

🚫NG!

Do not pull out the product diagonally from the channel.

🚫NG!

🚫NG!
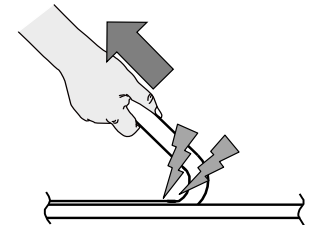
Do not separate the mounting channels at the gap (joint parts) between mounting bases.

🚫NG!
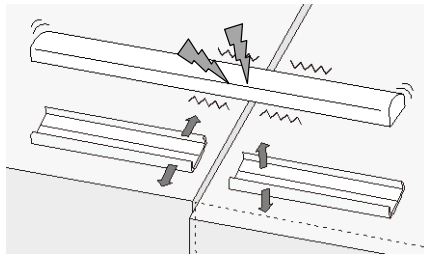
Vibration or misalignment of the base may cause a break of the product !

✓ OK
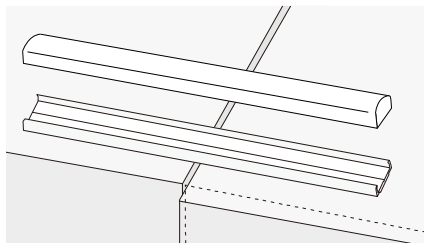
The channel can suppress vibration and misalignment of the base, and prevents the break of the product.

Do not bend the product toward horizontal direction.

⭕ Vertical bending is OK

※ See specfication for bending radius.

✕

✕ ⊘ Horizontal bending is NG!

Tape Light (RGBW/RGB) Installation Manual

atex

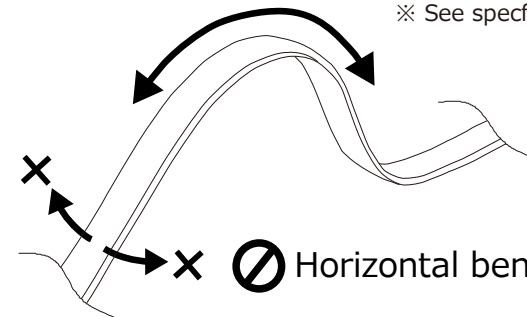We will appreciate for your purchasing the product. Please carefully read this manual to install the product correctly and safely.

Ver.20240705

Warning

☐ Qualifications are required to do electrical works. Check the laws of your country.

☐ Input voltage is 24VDC only. Please do not apply other voltage such as AC100 to 230V. It will cause fume or fire.

☐ Please do not put screws on the products directly.
It may cause damages. Please refer to "Installation Guide"

☐ Please do not perform the following actions on the product.
It will cause to decline in water resistant and insulation performance.
・Excessive bending and twisting of the product.
・Dropping and strongly striking the product.

☐ It is dangerous working with wet hands. May cause electrical shock.

☐ This product is a drip-proof specification.
The product should not reside in standing water.

☐ The product can not be used the place such as "Atmosphere of corrosive gas and flammable gas"Because it may cause troubles.
Please do not use the product in the following area.
・Area with synthetic rubbers and cardboards.
・Area with the material containing sulphur.
・Area with atmosphere of sulphur such as hot springs

☐ If there is any trouble with the product, please immediately turn off the power and contact the dealer or installer.

Precautions

☐ Please perform installation or removal, after the switch must be turned off.

☐ Please be careful that eyes might be hurt when you look straight at light emitting part.

☐ The temperature rise of the product is influenced with the capacity and the distance from housing. When installed, please make sure that you have to keep the required space for installation based on "Notice of Installation".
Ambient temperatures must remain the product specification.

☐ Please be careful about static electricity. It will damage LED's.
The product is vertical bending type.
Please do not bend the product toward horizontal direction.
It may cause the failure.

○ Vertical bending is OK
※ See specfication for bending radius.

⊘ Horizontal bending is NG!
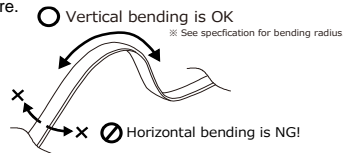
☐ Let me turn on the direction of the white of this product with White LED.
As for the direction of the white by the lighting,
a white balance collapses at the R,G,B same time.

☐ Please note that there is some variation in color among LED's.
The white of RGB LED, and the white of single-color LED's is different in hues.
The balance of emitted light color may change over time.

Specification

Product Specification

Product Name	Tape Light (RGBW/RGB)	
	RGBW type	RGB type
Product No. (Standard type)	TL10-090AM**K (** : White Color Temperature)	TL10-090AM
Product No. ("W" type)	TL10-090AM**KW (** : White Color Temperature)	TL10-090AMW
**	28 / 50	
Color Temperature	RGB + W(2800K) / RGB + W(5000K)	RGB
Input Voltage	DC24V ±1% *The power supply more than ±1% is unusable	
Power Consumption	15 W / m	10 W / m
Environment	Exterior, IP67 rated -10〜+55℃	
Dimension	Refer to dimensional drawing.	
Cutting points	60mm (6 LED) *Customized length order available	
Weight	115g/m	
Bending Radius	R30mm vertical	
LED pitch	10 mm	

"W" type：Lead wires at both ends.

Accessories (Option)

Product Name	Product No.	Remarks
PC Rigid Channel	FJS00-22	Transparent Polycarbonate, Length=1,000mm
PC Mounting Bracket	FJB00-21	Transparent Polycarbonate

Recommended total length connectable per power supply

Power supply (DC24V)	Total length of the product	
	RGBW type	RGB type
60W power supply	〜3.0m	〜4.0m
100W power supply	〜5.0m	〜6.6m
150W power supply	〜7.5m	〜10.0m *
240W power supply	〜12.0m *	〜16.0m *
320W power supply	〜16.0m *	〜21.3m *

*For multiple systems configuration

Recommended DMX driver（Option）

Company	Product No.
eldoLED	LIN180D3（LINEARdrive 180D）
	LIN720D3（LINEARdrive 720D）

Recommended DMX controllerr（Separate sale）

Please contact to our sales representative.

3D picture

Product

Accessories

PC Mounting Bracket (Option)

PC Rigid Channel（Option）

2D picture

Product

240
60 ～ 5040 + End-caps 10mm
9
18
30
Cuttable at 60mm (6LEDS) intervals
10 10 10
30
※"W" type only
5
15
X-X' Section

Fig.S'　　Fig.S

Enlarged view of Fig.S'　　Cuttable line　Cuttable line　Enlarged view of Fig.S
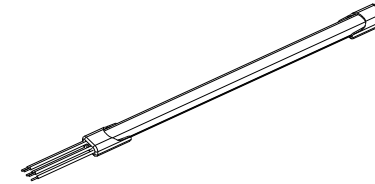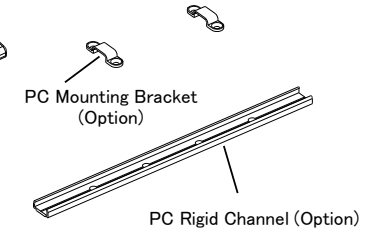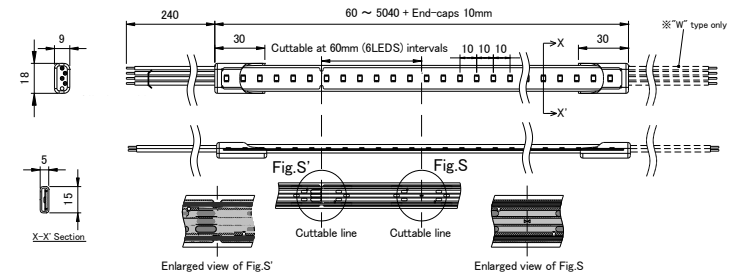
Third –angle projection method (Unit : mm)

Cable color meaning:
☐White cable ⇔ +24V
■Red cable ⇔ ■Red LED
■Green cable ⇔ ■Green LED
■Blue cable ⇔ ■Blue LED
■Yellow cabe ⇔ ☐White LED（RGBW type only)

Cutting

☐ Please do not cut the product at a project site.
The water and dust resistance cannot be guaranteed.
Then the performance will be reduced.

☐ If you need the various length for a project site,
we recommend to order the product with the customized length.

How to Wire

Please wire it as follows.

Please refer to each instruction manual for the wiring method of our DMX receiver.

(A)Dimming Contoroller

Please use the controller which can control DMX driver.
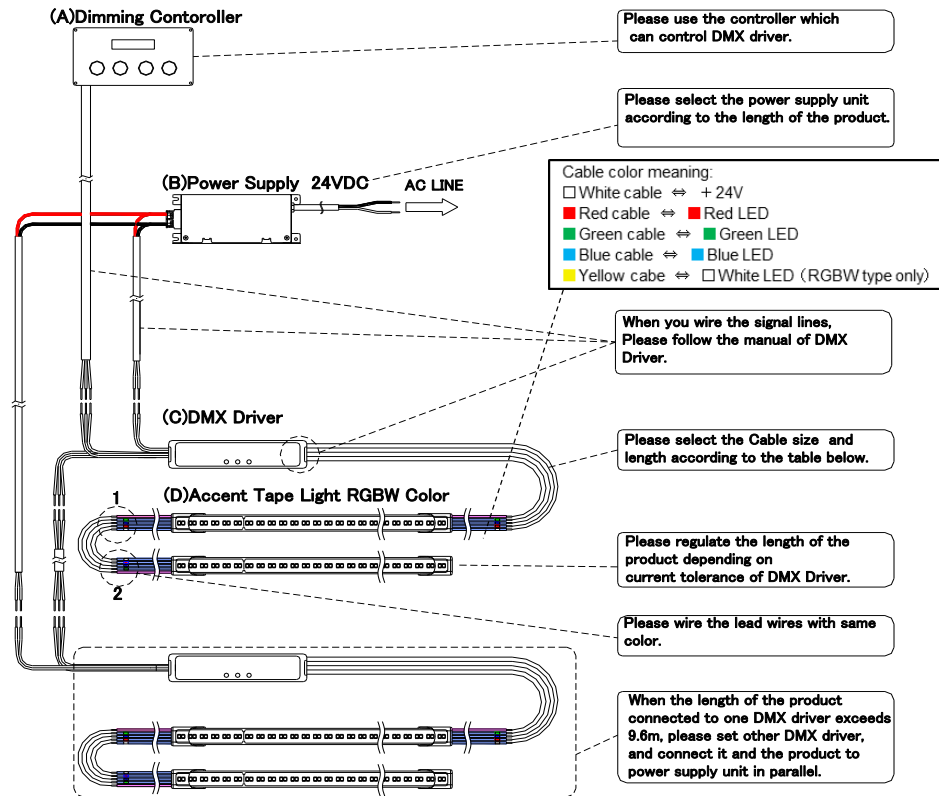
Please select the power supply unit according to the length of the product.

(B)Power Supply 24VDC **AC LINE**

Cable color meaning:
- ☐ White cable ⇔ ＋24V
- ■ Red cable ⇔ ■ Red LED
- ■ Green cable ⇔ ■ Green LED
- ■ Blue cable ⇔ ■ Blue LED
- ■ Yellow cabe ⇔ ☐ White LED（RGBW type only）

When you wire the signal lines, Please follow the manual of DMX Driver.

(C)DMX Driver

Please select the Cable size and length according to the table below.

(D)Accent Tape Light RGBW Color

Please regulate the length of the product depending on current tolerance of DMX Driver.

Please wire the lead wires with same color.

When the length of the product connected to one DMX driver exceeds 9.6m, please set other DMX driver, and connect it and the product to power supply unit in parallel.

[Recommended electric wire list]

Connection point	Cable size	Ampacity(A)※1	Max Wire Length(m)※2	RGBW type Watts (W/m)	RGBW type Max Unit Connectable (m)	RGB type Watts (W/m)	RGB type Max Unit Connectable (m)
Product power supply line (C)-(D) line	S-VCTF0.75sq-5C	8.0	4	20.0	8.2	–	–
	S-VCTF1.25sq-5C	11.0	6	20.0	9.6	–	–
	S-VCTF2.0sq-5C	14.0	10	20.0	9.6	–	–
	S-VCTF0.75sq-4C	9.0	5	–	–	15.0	9.6
	S-VCTF1.25sq-4C	12.0	8	–	–	15.0	9.6
	S-VCTF2.0sq-4C	15.0	14	–	–	15.0	9.6

※1 These values of ampacity are examples only. Refer to the specifications of wires you use.
※2 When connecting products and power supplies in parallel in multiple systems, make sure that the types and lengths of the wires in each system are the same to prevent differences in brightness and color between the products.

⚠ **Caution**

Input voltage of the product is DC24.

If wrong voltage is applied to the product, it may cause the malfunction problem.

When you use a dimming system on the market, please refer to its installation and handling manual for details.

Installation Guide

Use of PC Rigid Channel

(1) Cut the Channel
Please cut the PC Rigid Channel as needed because it is not available to insert the end cap of the product in the PC Rigid Channel.
The insertion of the Endcap to the PC Rigid Channel may cause the failure and the damage.
Please have the gap 10-20mm between the Endcap and the PC Rigid Channel.

Endcap

10〜20mm   PC Rigid Channel

②
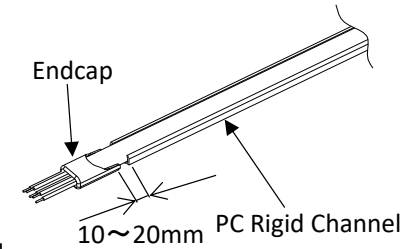
(2) Remove the burr of the channels after cutting
Note that the burr may cause damages.
 * electrifications * smoke.

(3) Mount the Channel onto the wall

Please mount the PC Rigid Channel on the wall using screws into the screw hole to properly secure it.
Screw : 4.1 Round head screw
Please fix all screw holes to prevent floating the channel.

Groove on Channel

①   PC Rigid Channel

(4) Install the product into the Channel
①Please install the product with the diagonal line toward groove on the channel as the right drawing.
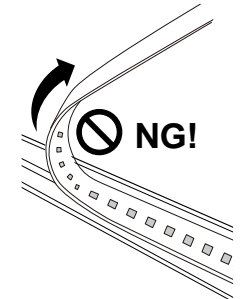②After that, please install the products in the channel.
・Please do not constrict LED of the product when installing the product in the channel.
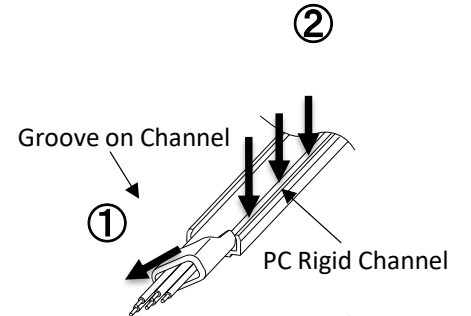
When removing the products from the channel, please reverse the procedure above.

🚫 **NG!**

Prohibitions :
Please do not remove the products from the channel with excessive tension as the right photo. It will cause the failure.

⚠ Caution

(1)Please use Atex PC Rigid Channel and Atex PC Mounting Bracket for Accent Tape Light to install.

(2)Please do not put screws on the products directly. It may cause damages.

(3)Please do not use a double sided tape and a glue with the products to install.

(4)Please do not bend the product forward horizontal direction. It may cause the failure.

(5)The Endcap are processed for water resistant or insulation.

Please do not constrict the product to keep the performance.

(6)Please do not perform the excessive bending or twisting of the lead wires.

It will cause the failure and the decline in water resistant performance.

of PC Mounting Bracket

ase fix the PC Mounting Bracket in the necessary location with screws.

Recommended pitch is 220mm or less

Recommended screws :4.1 Round head screw

Please increase the number of the PC Mounting Bracket

if needed for installation location at the project site.

The product is vertical bending type.

Bending Radius is 30mm vertical.

screws

Less than 220mm

PC Mounting Bracket