

 **Work with two person so that the product does not bend.**

Keep the followings to prevent damages, electric shock, fume and fire.

■ Work Alone

 **NG!**

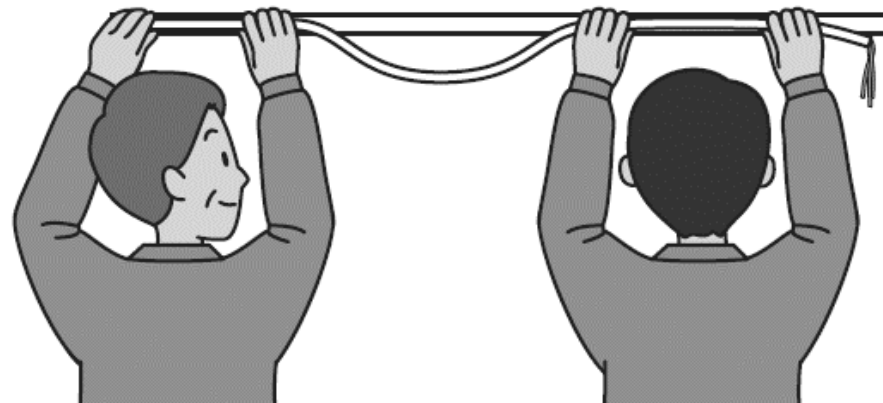
The circuit board
inside the product
will be broken!



The product may
bend

■ Work Two-Person

 **OK**



Support the product so that
it does not bend.

If you must work alone,
make sure to carry the product
over your shoulder and
be extremely careful not to bend it.

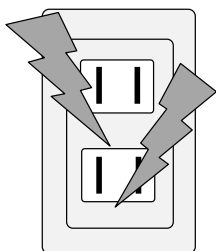


Caution when Installing the Product

Keep the followings to prevent damages, electric shock, fume and fire.

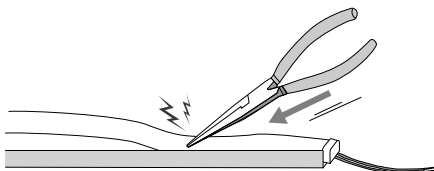
Do not connect to AC power.

NG!



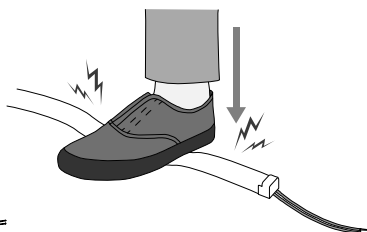
Do not use a tool with sharp point.

NG!



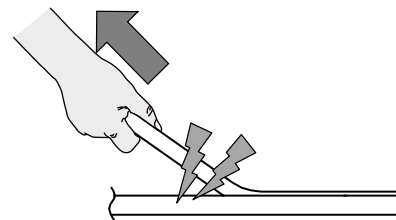
Do not tramp on or strike the product.

NG!

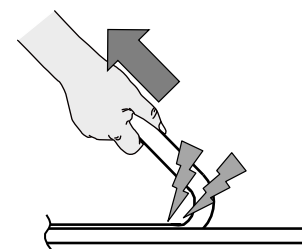


Do not pull out the product diagonally from the channel.

NG!

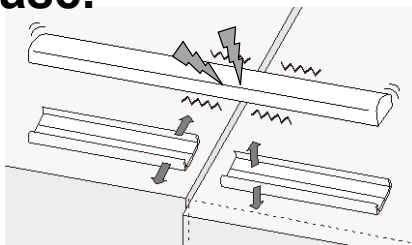


NG!



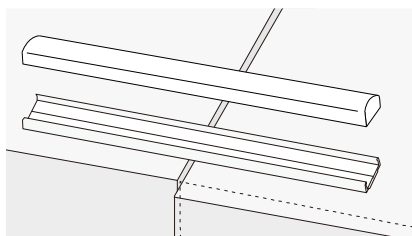
Do not separate the channel at the gap of mounting base.

NG!



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

✓ OK

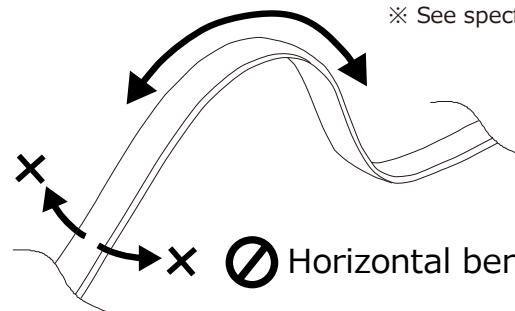


The channel can suppress vibration and misalignment of the base, and prevents the break of the product.

Do not bend the product toward horizontal direction.

○ Vertical bending is OK

※ See specification for bending radius.



○ Horizontal bending is NG!

Tape Light Addressable RGBW Instruction Manual

For Keeping

atex

We will appreciate for your purchasing the product. Please carefully read this manual to install the product correctly and safely. After reading them, preserve them carefully for future reference.

ZTE1TL20ADR Ver.20251127

WARNING

Read this section carefully to prevent electrical shock, fire and other hazard.

- ☐ Qualifications are required to do electrical works. Check the laws of your country.
- ☐ Input voltage is 24V DC only. Do not apply other voltage such as AC power.
- ☐ Do not disassemble or alter the product.
- ☐ Turn off the power before installing or handling the product.
- ☐ Do not put screws into the products directly. It will cause damages. Please refer to "Installation Method".
- ☐ Do not perform the following actions on the product.
 - Excessive bending and twisting of the product.
 - Dropping and strongly striking the product.
- ☐ Do not install or handle the product with wet hands.
- ☐ This product should not be installed in the following places.
 - Places where water is continuously splashed or underwater. (This product is IP67 rated)
 - Places where moisture tends to remain.
 - Places with poor heat dissipation.
 - Places with high temperature and humidity, such as bathrooms and saunas.
 - Places with large vibrations and shocks.
- ☐ Clean and inspect the product on a regular basis. Leaving the product for a long period of time may cause smoke, fire, or electric shock.
 - Voluntary inspection and cleaning (once a year).
 - Inspection and cleaning by specialists such as an electrician (once every three years).
- ☐ If there is any trouble with the product, please immediately turn off the power and contact the dealer or installer.

CAUTION

- ☐ Please be careful that eyes might be hurt when you look straight at light emitting part.
- ☐ Please be careful about static electricity. It will damage the product.
- ☐ The product is vertical bending type. Please do not bend the product toward horizontal direction. It may cause the failure.
- ☐ Do not install the lead wires with tension. It may cause the failure.
- ☐ The temperature rise of the product is influenced with the capacity and the distance from housing. Ambient temperatures must remain the product specification.
- ☐ The product cannot be used in the atmosphere of corrosive gas and flammable gas, like the following.
 - Area with synthetic rubbers, cardboards, and other materials containing Sulphur.
 - Area with hot springs containing Sulphur.
- ☐ Even if the bending is looser than the minimum bending radius (R80mm), repeated bending of the product may cause a malfunction. Do not bend the product more than 5 times, including attaching to the channel. Also, do not attach it to doors that open and close.

Specification

This product is a tape light with a built-in DMX drive circuit, and can be controlled in full color by directly connecting a DMX controller.

Product Specification

Product Name	Tape Light Addressable RGBW
Type	RGBW
Product No.	TL20-ADR-□□K (28K / 50K)
Length	114 mm~2508mm + End caps 10mm
Weight	200 g/m
Input Voltage	DC24V
Power Consumption	12W/m
Color	Red, Green, Blue, White ※ White (5000K / 2800K)
Luminous Flux	Red:100 / Green:200 / Blue:40 / White(5000K:365 / 2800K:310) lm/m
Beam angle	110°
Bending Radius	R60mm Vertical.
Dimming Signal Standard	DMX512 Standard
Compatible DMX Controller	DMX Controller Conforming to DMX512 Standard * Please contact our sales for recommended models.
DMX Address	From the beginning, 1ch: R / 2ch: G / 3ch: B / 4ch: W ... will be addressed automatically. When concatenated, DMX addresses will be consecutive from the unit in front.
DMX Control Length	114mm Unit
Used DMX Channels	36 channels/m
Max DMX Drive Length	14,592mm
Max Unit Connectable	5016mm (114mmx44circuits) + End Caps *If you connect more products, the brightness and color will vary greatly.
Operating Temperature Environment	-10 ~+ 55°C Indoor / Outdoor (IP67 rated)

*1 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.

Options

Product Name	Product No.	Note
Aluminum Rigid Channel	FAS00-01TA4	Length=1000mm
Aluminum cover for End Caps	KATA4-EA	Aluminum, 2 pieces per bottle
Aluminum Mounting Bracket	KATA4-HA	5pcs per pack Please use 5pcs per meter.
Power and DMX Relay Cable	WCADR-4CR	Length=1000mm, waterproof, VCTF 0.3sq-4C
Waterproof Termination connector	WCADR-4TC	
DC/DMX Input Cable	WCADR-DCDMXIN	Power supply for DMX data input
DMX Output Cable	WCADR-DMXOUT	Power supply for DMX data input
DMX Input Cable for XLR3 (※1)	WCADR-XLR3S	Length=1000mm, waterproof type except XLR3
DMX Input Cable for XLR5 (※1)	WCADR-XLR5S	Length=1000mm, waterproof type except XLR5
DMX Input Cable for RJ45 (※1)	WCADR-RJ45S	Length=1000mm, waterproof type except RJ45
DMX Relay Cable (※1)	WCADR-DMXRC3S	Length=1000mm, waterproof type

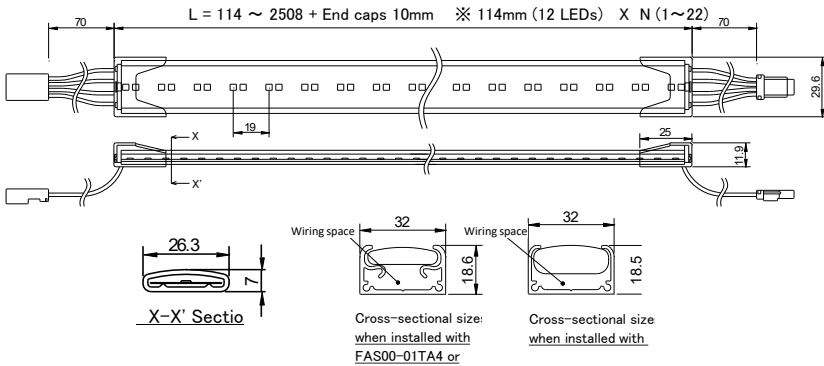
※1 An DC/DMX Input Cable and an DMX Output Cable are required.

☐ For the usage, refer to the “Installation Method” and “Wiring Method”

DMX Controller (Sold separately)

Please contact our sales representative for suitable DMX controllers.

Dimensions

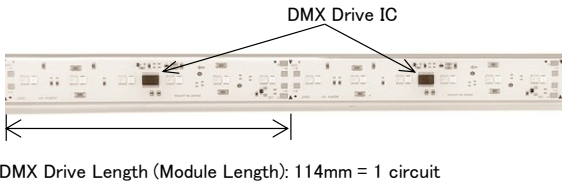


Aluminum Rigid Channel L=1000mm
Aluminum Cover for End Caps L=30mm
Aluminum Mounting Bracket L=26mm
Third-angle projection method (Unit : mm)

※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.

[Top (Enlarged View)]

• One circuit is 114mm and controls 12LEDs(RGB/W).



Tape Light Addressable Instruction Manual (Installation Instructions)

System Diagram (Example)

[DMX]

4 channels (1ch: red / 2ch: green / 3ch: blue / 4ch: white) are used in one DMX drive circuit (module).

Up to 128 modules can be controlled with the DMX 1 system (512ch). If you need color control of 128 modules or more, control with multiple DMX systems (universes).

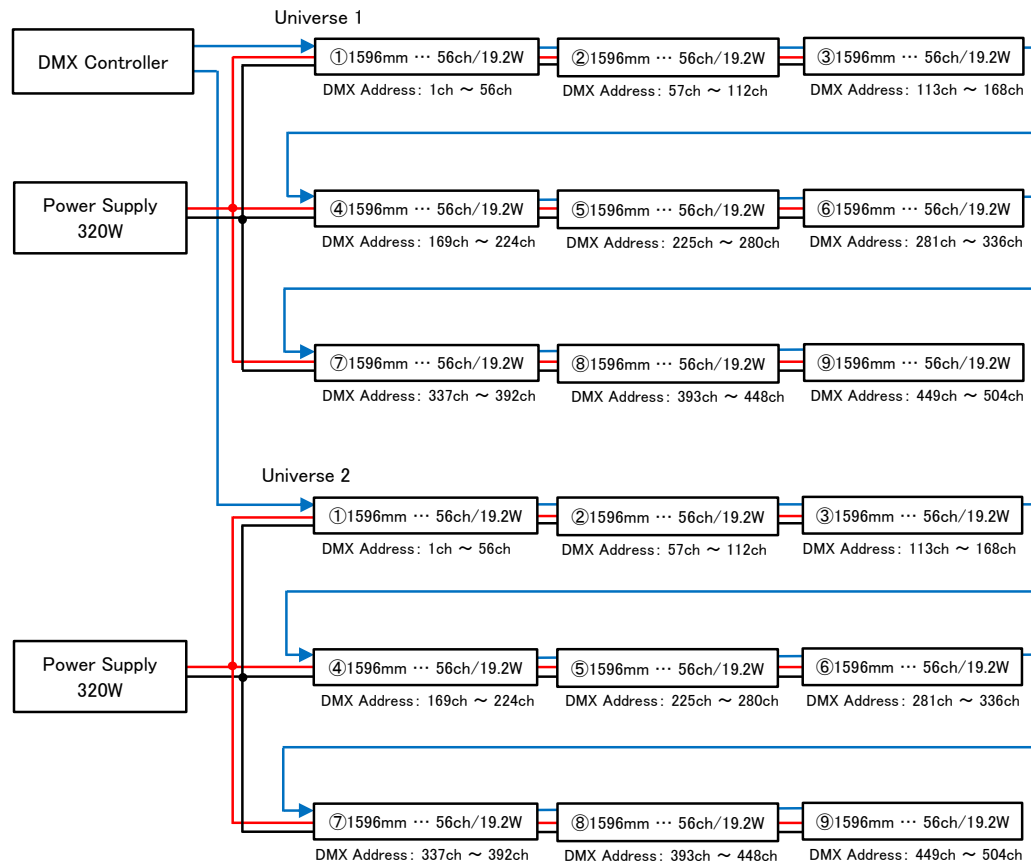
[Power Supply]

Products can be connected according to the power output capacity, but the maximum series connection length should be within about 5 m when connected in series. If the maximum series connection length is exceeded, connect in parallel from the power supply.

Ex.) 1596mm (14 Modules), With a 320W power supply ... $12W/m \times 1596mm \div 1000mm = 19.2W$

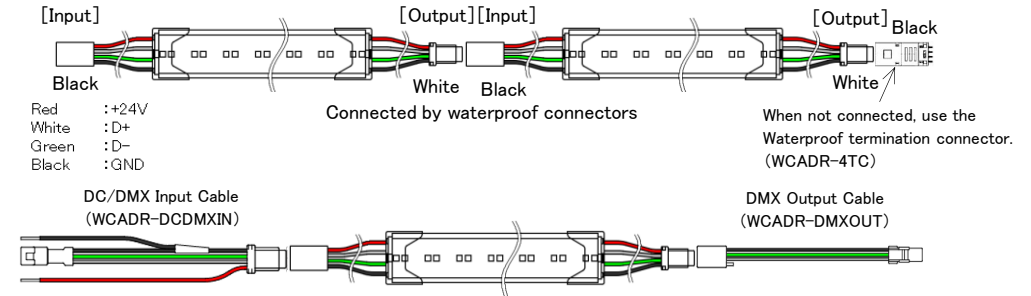
- DMX: Since 14 modules \times 4ch=56ch are used, 9 products can be connected in 1 universe.
- Power Supply: You can connect up to $(320W \div 12W/m) \times 0.7 = 18.6m$ but since the maximum series connection length is 5m, connect every 3 product in parallel.

In this example, for the sake of simplicity, both the DMX signal and the power supply are divided into six systems.



- ☐ Perform a matching test with the DMX controller in advance.
- ☐ 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.

Wiring Method



✳ To use the following option cable, an input/output conversion cable is required.

- DC/DMX Input Cable (WCADR-DCDMXIN)
- DMX Output Cable (WCADR-DMXOUT)
- Waterproof termination connector (WCADR-4TC)

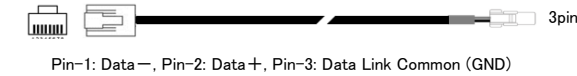


[Optional DMX Input Cable]

Use an input cable that matches the DMX signal output connector on your DMX controller.

- DMX Input Cable for XLR3 (WCADR-XLR3S) ... for DMX output connector is an XLR-3 female
 - DMX Input Cable for XLR5 (WCADR-XLR5S) ... for DMX output connector is an XLR-5 female
- Pin-1: Data Link Common (GND)
Pin-2: Data- / Pin-3: Data+

- DMX Input Cable for RJ45 (WCADR-RJ45S) ... for DMX output connector is an RJ45 female



[Optional Relay Cable]

Use a relay cable when connecting the products apart.

- DMX Relay Cable (WCADR-DMXRC3S) ... for extending the DMX signal
- Power and DMX Relay Cable (WCADR-4CR) ... for extending the power/DMX signal to 1 m



- ☐ When using its outdoors, waterproof the connection of the DC24V lead wire.
- ☐ The standard length of the cable is 1m. For other lengths, please contact our sales representative.



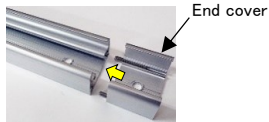
Caution This product is for DC24V.
If you add AC100V even for a moment, it will fail, so please wire with caution.

Tape Light Addressable Instruction Manual (Installation Instructions)

Installation Method

■ Use of Aluminum Rigid Channel

- 1 Cut the rigid channel (Product No. : FAS00-01TA4) to the required length. The end cap at the end of the product does not fit into this channel. When covering the end cap, use the end cover (Product No. : FAE30-PIN).

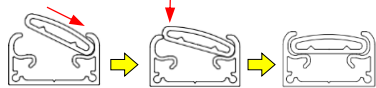
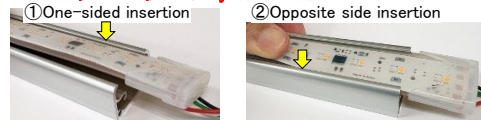


Recommended screws for wooden mounting surfaces.
Wood Screw No. 4.1 Round Head Screw

- 2 Remove the burr after cutting the channel, because the burr may cause damages, electric shock and smoke.
- 3 Securely mount the channel on the wall using s
 - * Please use the appropriate screws according to the wall so that the channel and the product will not fall.
 - * Please fix all screw holes to prevent floating the channel.
- 4 As shown in the figure below, ① insert one side of the product diagonally into the groove of the straight aluminum channel, and ② slowly push the other side sequentially to fix it.

If you want to remove it, twist it diagonally upward from one side. You can also use a plastic spatula.

Do not pull it up forcibly to remove it.



How to remove 1

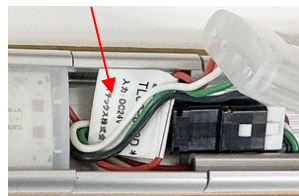
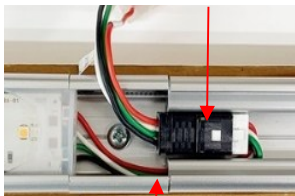


How to remove 2

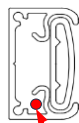


- 5 When connecting a straight aluminum channel with an end cover, please follow the steps below to process the lead wires of the waterproof connector.

- ② Insert the connector body into the gap
- ③ Place the remaining lead wires in this gap



- ④ Insert one side diagonally and push in the opposite side.

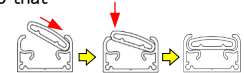


① Put the lead wire in the groove

Lead wire

■ Use of Aluminum Mounting Bracket

- It is recommended to use the Mounting Bracket (KATA4-HA) when mounting on a curved surface.
- 1 Please place the product along the curved surface, then fix the Mounting Bracket in the necessary position with screws.
 - * Please use the appropriate screw according to the wall so that the bracket and the product will not fall.
 - * The pitch for fixing the bracket should be 220mm or less.
 - If it is difficult to follow a curved surface, increase the number of brackets used.
 - * The product is vertical bending type. Minimum bending radius is 60mm vertical.



⚠ Caution

- We DO NOT recommend to remove the product from the channel after the installation. Repeated installation and removal may causes failure.
- If removal from the channel is unavoidable, insert your fingers between the product and the channel, detach one side first, and then slowly lift the product diagonally upward from the channel (see diagram). Pulling the product out at an angle to the channel may cause damage to the product.

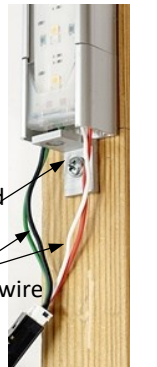


⚠ Caution

- Use Atex accessories to install the product.
- Do not put the screw on the product directly. It may cause damages.
- Do not use double sided tape and glue to install the product.
- Do not bend the product beyond the minimum bending radius. The LED may not light up.
- The end caps are waterproof with adhesive. Do not apply strong force. Doing so may cause a decrease in waterproof performance.
- Do not pull the lead wires. Doing so may cause non-lighting or deterioration of waterproof performance.
- **Vertical mounting with straight channels and Mounting Bracket**
If the product is fixed vertically (upright) on the floor using straight channels, it may fall. As shown in the figure on the right, use an appropriate L-shaped bracket to secure the product. Ensure that the L-shaped bracket does not pinch the lead wires. Pinched lead wires may cause malfunction, electric shock, or fire
Do not use the mounting bracket when installing the unit in a vertical orientation.

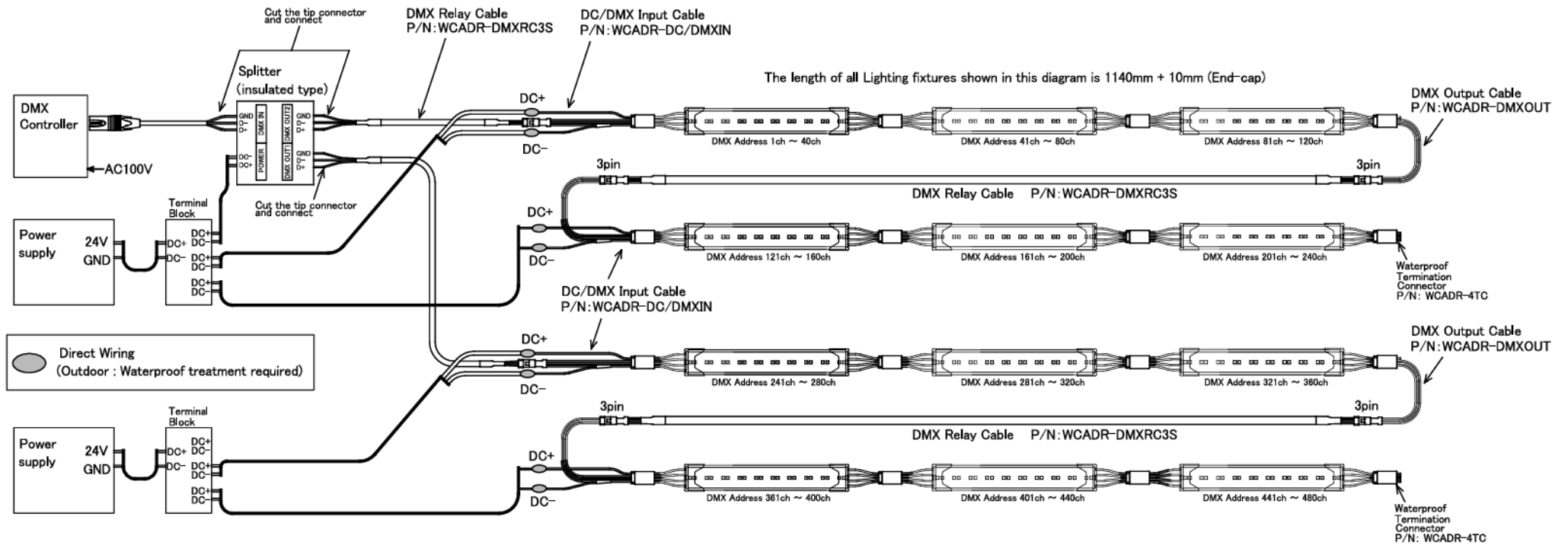
L-shaped

Lead wire



* The contents of this manual are subject to change without notice.

Cut the tip connector and connect **DMX Relay Cable** **DC/DMX Input Cable**



Cut the tip connector and connect DMX Relay Cable DC/DMX Input Cable

