



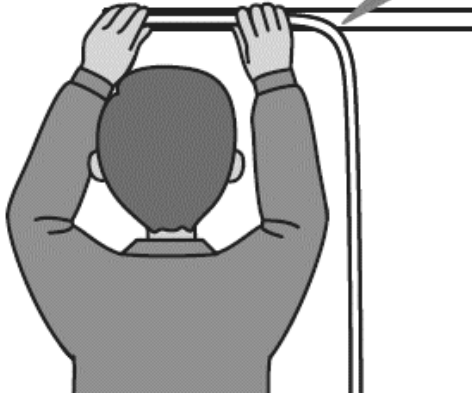
Work with two person so that the product does not bend.

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

■ Work Alone

NG!

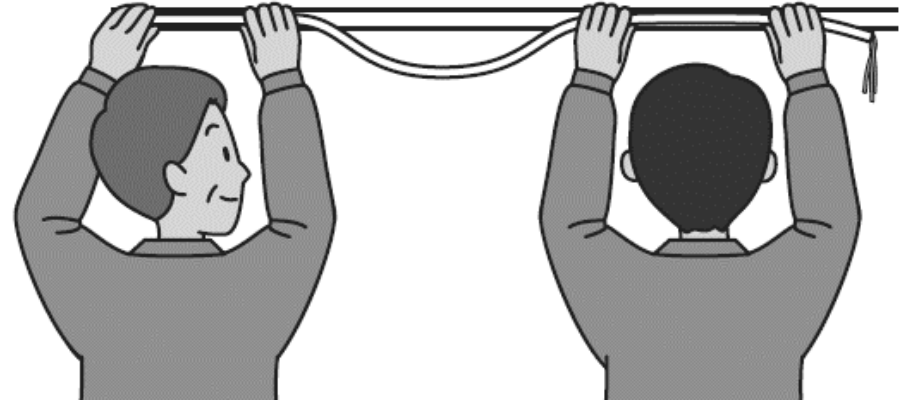
The circuit board inside the product will be broken!



The product may bend and cause open circuit.

■ Work Two-Person

OK



Support the product so that it does not bend.

If it is necessary to work alone, be careful not to bend the product over your shoulders.

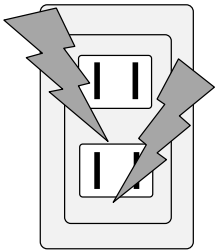


Caution when Installing the Product

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

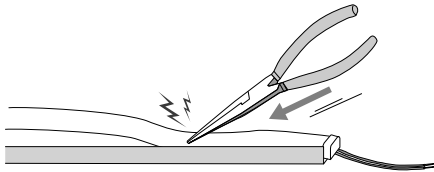
Do not connect to AC power.

NG!



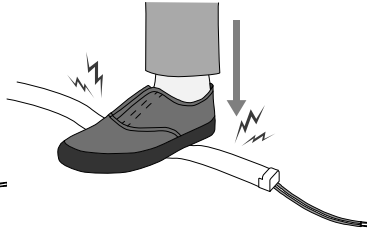
Do not use a tool with sharp point.

NG!



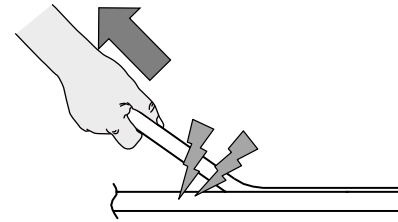
Do not tramp on or strike the product.

NG!

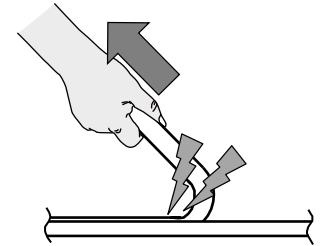


Do not pull out the product diagonally from the channel.

NG!

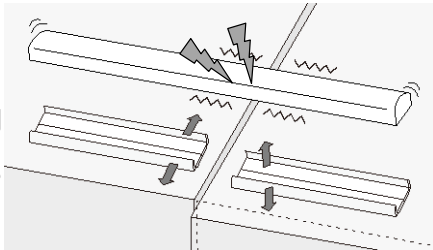


NG!



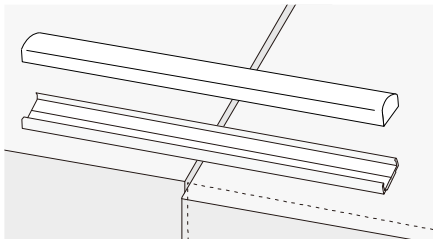
Do not separate the channel at the gap of mounting base.

NG!



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

OK

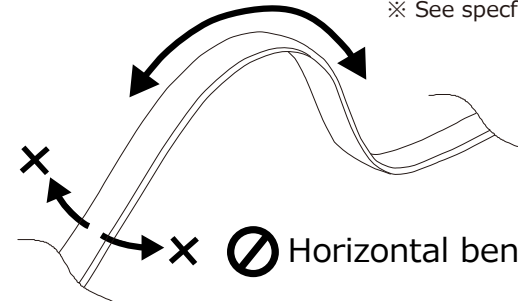


The channel can suppress vibration and misalignment of the base, and prevents the break of the product.

Do not bend the product toward horizontal direction.

○ Vertical bending is OK

※ See specification for bending radius.



○ Horizontal bending is NG!

Tape Light Addressable 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.

ZTE4TLADR Ver.20260114

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 | | | |
| Pitch Type | Fine Pitch | Standard Pitch | Long Pitch |
| Product No. | TL-ADR-F | TL-ADR-S | TL-ADR-L |
| Length | 114mm ~ 1026mm | | 171mm ~ 1026mm |
| Size | Refer to dimensional drawing. | | |
| Weight | 180g/m | | |
| Input Voltage | DC24V | | |
| Power Consumption | 13W/m | 12W/m | |
| Color *1 | Red, Green, Blue | | |
| Luminous Flux | Red:140 lm/m, Green:350 lm/m, Blue:60 lm/m | | |
| Bending Radius | R80 mm 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 ... w ill be addressed automatically. When concatenated, DMX addresses w ill be consecutive from the unit in front. | | |
| DMX Control Length | 57mm Unit | 114mm Unit | 171mm Unit |
| Used DMX Channels | 54 channels/m | 27 channels/m | 18 channels/m |
| Max DMX Drive Length | 9,690mm (57mm×170 modules) | 19,380mm (114mm×170 modules) | 29,070mm (171mm×170 modules) |
| Max Unit Connectable *2 | 6.2m (1,026mm × 6) *If you connect more products, the brightness and color w ill vary greatly. | | |
| Ambient temperature and humidity | -10°C - 55°C, 45 - 84% RH | | |
| Environment | 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.
 - The balance of emitted light color may change over time.
- *2 The connection length of the product is also limited by the power supply.

Options

| Part Name | Part Number | Note |
|--------------------------------|-------------|---|
| Polycarbonate Rigid Channel | FJS00-TA | Length=1000mm |
| Polycarbonate Mounting Bracket | FJB00-TA | 5pcs per pack Please use 5pcs per meter. |
| DMX Input Cable for XLR3 | WCADR-XLR3C | Length=1000mm, w aterproof type except XLR3 |
| DMX Input Cable for XLR5 | WCADR-XLR5C | Length=1000mm, w aterproof type except XLR5 |
| DMX Input Cable for RJ45 | WCADR-RJ45C | Length=1000mm, w aterproof type except RJ45 |
| DMX Relay Cable | WCADR-DMXRC | Length=1000mm, w aterproof type |

- For the usage, refer to the "Installation Method" and "Wiring Method" sections.

DMX Controller (Sold separately)

Please contact our sales representative for suitable DMX controllers.

For Keeping

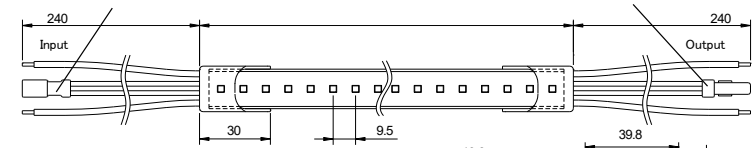
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Dimensions

| Product No. | Length | Basic Length | Multiple Number of basic length | End Cap Length |
|-------------|-----------------------|----------------|---------------------------------|----------------|
| TLD-ADR-F | L = 114 ~ 1026 + 10mm | 57mm (6LEDs) | 2 ~ 18 | 10mm |
| TLD-ADR-S | L = 114 ~ 1026 + 10mm | 114mm (12LEDs) | 1 ~ 9 | |
| TLD-ADR-L | L = 171 ~ 1026 + 10mm | 171mm (18LEDs) | 1 ~ 6 | |

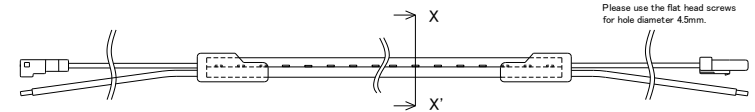
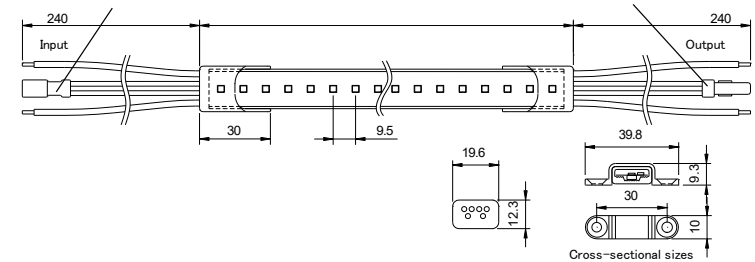
DMX Signal Input Connector (Black)

Lead Wire (Red): +24V



DMX Signal Output Connector (White)

Lead Wire (Red): +24V

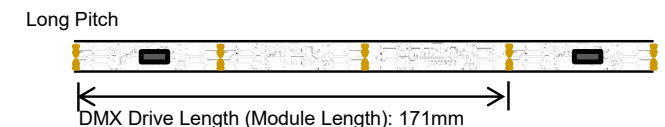
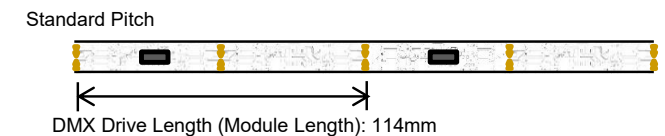
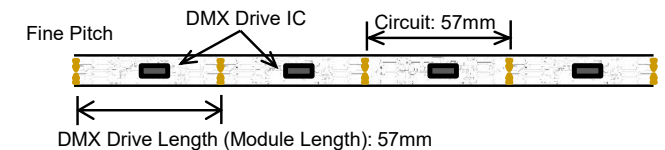


※When connecting products and power supplies in parallel in multiple systems, make sure that the types and lengths of the wires in each system are the same to prevent differences in brightness and color between the products.

(Unit: mm)

[Bottom (Enlarged View)]

- One circuit is 57mm and controls 6 LEDs.
- Depending on the number of circuits controlled by the DMX drive IC, the DMX drive length (module length) is Fine:57mm, Standard:114mm or Long:171mm pitch.



System Diagram (Example)

[DMX]

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

Up to 170 modules can be controlled by one DMX system. When you need more than 171 modules of color control, use multiple DMX systems (universes) to control them.

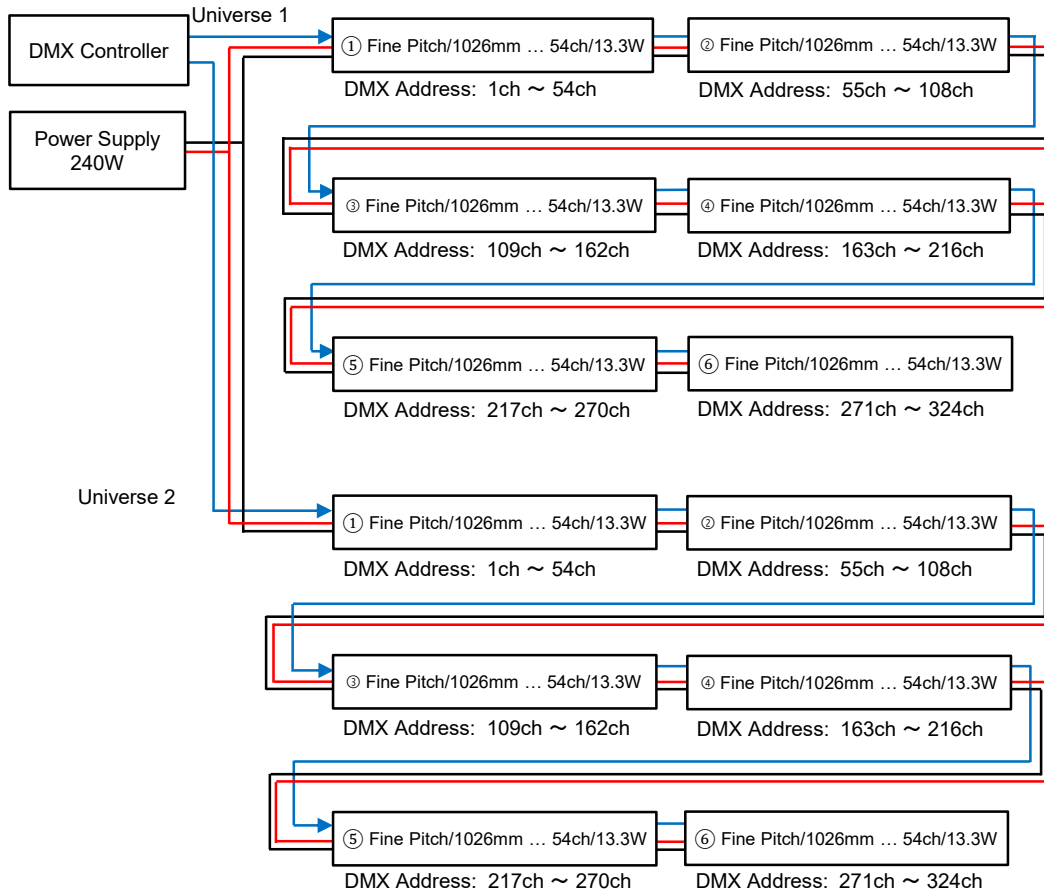
[Power Supply]

This products can be connected according to the power output capacity of a power supply, but the maximum series connection length should be 6.2 m or less. If the maximum series connection length is exceeded, connect in parallel from the power supply.

Ex.) Fine Pitch / 1026mm (18 modules) ... $13W/m \times 1026mm \div 1000mm = 13.3W$ and 240W Power Supply

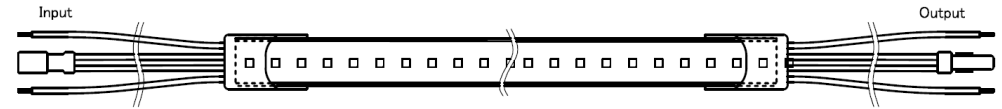
- DMX: Since $18modules \times 3ch = 54ch$ are used, 9 products can be connected in 1 universe (512ch).
- Power Supply: You can connect up to $240W \div 13W/m = 18.4m$, but since the maximum series connection length is 6.2m, connect every 6 products in parallel.

In this example, the DMX signal and power supply are divided into 6 systems for easy understanding.



- 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



[Input]

- Lead Wire (Red) → Connect to DC24V+ /
- Lead Wire (Black) → Connect to Ground of DC24V.
- DMX Signal Input Connector (Black) → Connect to DMX Controller.

※ When connecting to a DMX controller, use the optional input cable below.

[Output]

- When connecting to the next product
 - Lead Wire (Red) → Connect to the red lead wire of the next product.
 - Lead Wire (Black) → Connect to the black lead wire of the next product.
 - DMX Signal Output Connector (White) → Connect to the DMX signal input connector (Black) of the next product.
- When not connected
 - Insulate properly so that the red and black lead wire do not short-circuit.

[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-XLR3C) ... for DMX output connector is an XLR-3 female



Pin-1: Data Link Common (GND) / Pin-2: Data- / Pin-3: Data+

- DMX Input Cable for XLR5 (WCADR-XLR5C) ... 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-RJ45C) ... for DMX output connector is a RJ45



Pin-1: Data- / Pin-2: Data+ / Pin-3: Data Link Common (GND)

[Optional Relay Cable]

Use a relay cable when connecting the products apart.

- DMX Relay Cable (WCADR-DMXRC) ... for extending the DMX signal



- Power and DMX Relay Cable (WCADR-DCDMXRC) ... for extending the DC24V and DMX signal



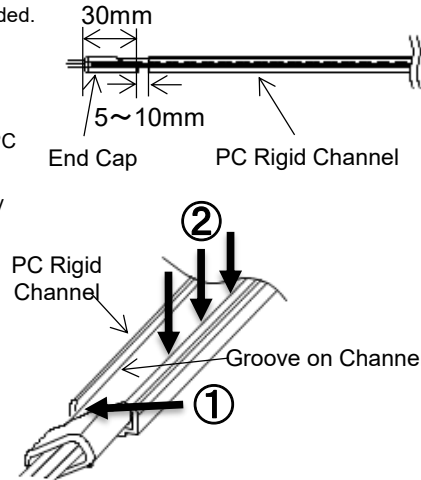
Cable: VCTF 2sq-4C

- 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.

Installation Method

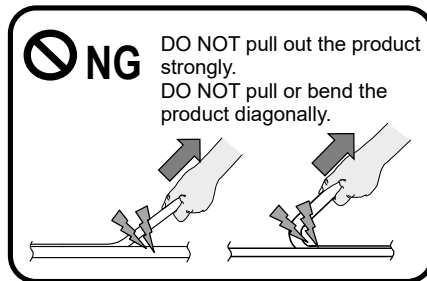
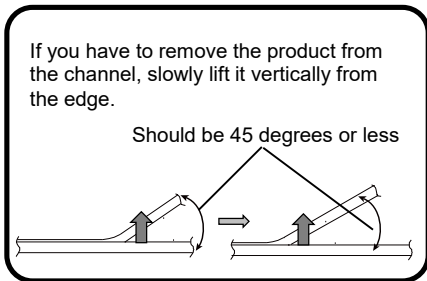
■ Use of Polycarbonate Rigid Channel

- Please cut the Polycarbonate Rigid Channel (FJS00-TA) as needed.
 - * It is not available to insert the end cap of the product in the PC Rigid Channel. The insertion of the end cap to the PC Rigid Channel may cause the failure and the damage.
 - Please have the gap 5~10mm between the end cap and the PC Rigid Channel.
- Remove the burr after cutting the channel, because the burr may cause damages, electric shock and smoke.
- Securely mount the channel on the wall using screws and screw holes.
 - * 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.
- As shown in the right figure, ① insert the product diagonally into the groove on the channel, then ② slowly push it in to fix.



CAUTION

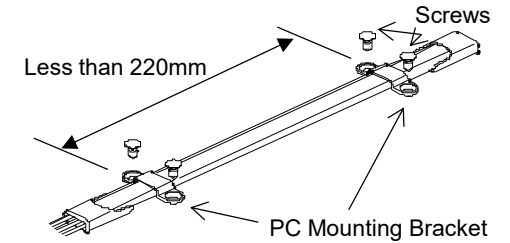
- We DO NOT recommend to remove the product from the channel after the installation. Repeated installation and removing may causes failure.
- If you have to remove the product from the channel, lift up the product carefully and slowly, and pull it out vertically within 45 degrees with your hands.



Installation Method

■ Use of Polycarbonate Mounting Bracket

- It is recommended to use the Polycarbonate Mounting Bracket (FJB00-TA) when mounting on a curved surface.
- Please place the product along the curved surface, then fix the PC 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 80mm vertical.



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 perform the excessive bending or twisting of the lead wires and End Caps. It may cause the failure and the decline in water resistant performance.