LED NEON FLEX SPECIFICATION

IP67 1220 DMX512 Pixel RGB / RGBW LED Strip
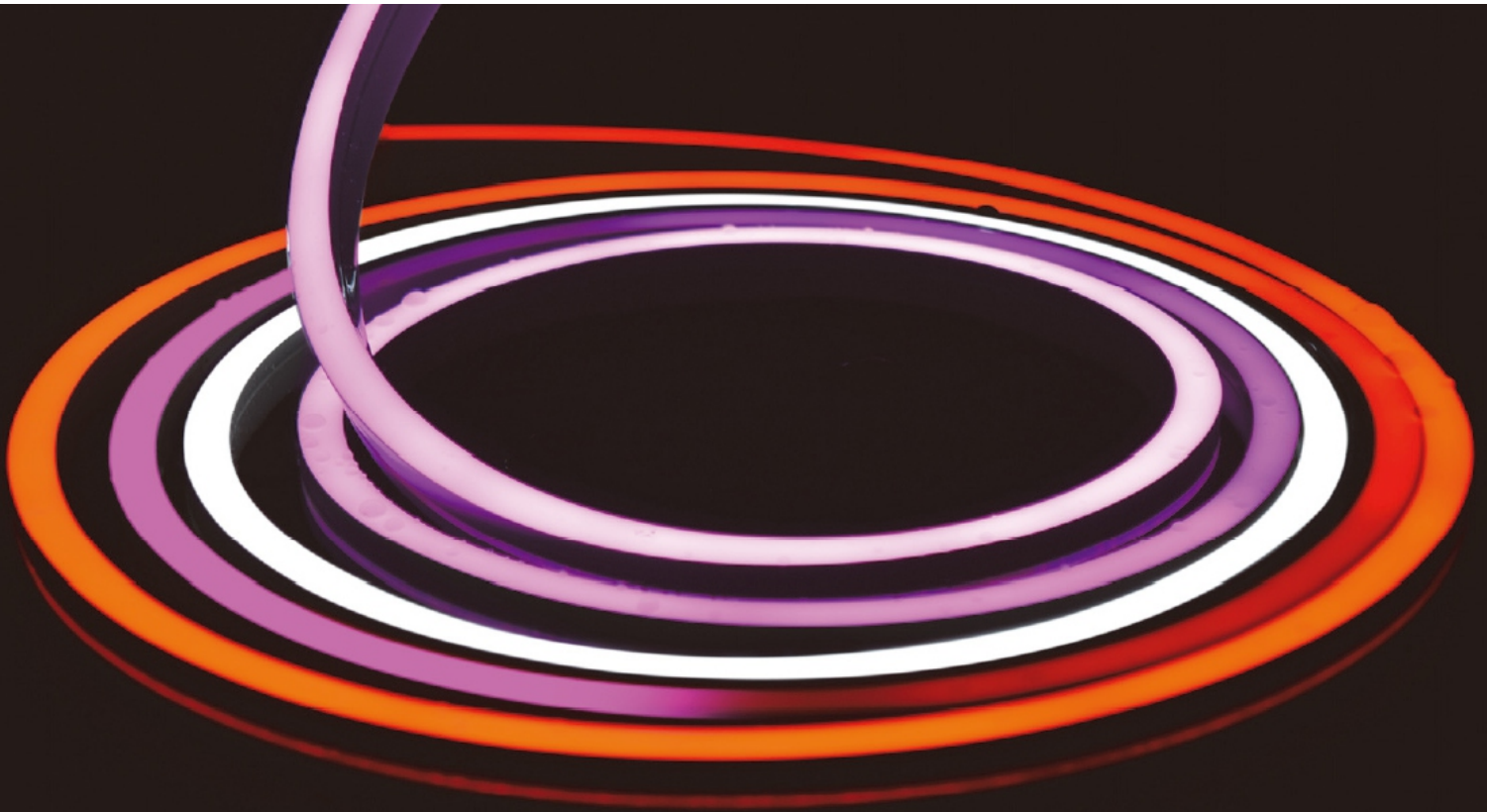
ETL
INTERTEK
C US
LISTED
CM
5000906

SGS

TÜV Rheinland

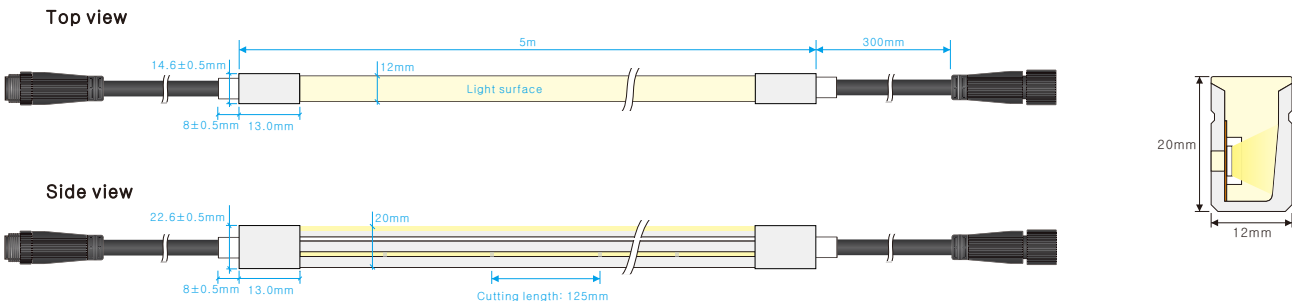# IP67 1220 DMX512 Pixel RGB / RGBW LED Strip

LEDYi
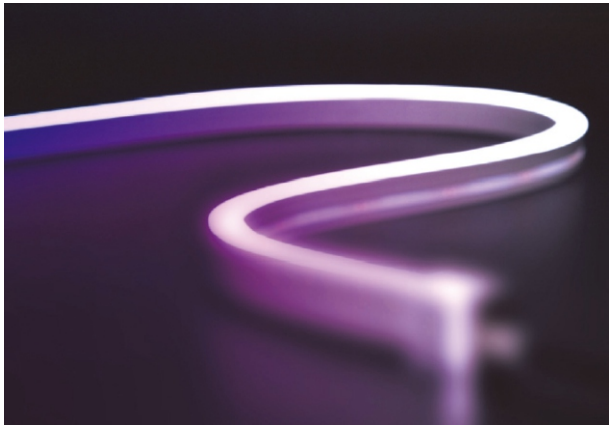
Description

DMX RGB / RGBW LED NEON lights let you create millions of colors by mixing 3 or 4 colors. With the ability to control each individual pixel and each individual channel, the color mix and color effects possibilities are endless.

● Compatible with DMX512(1990) protocol.

● Adopting RS485 signal trunk and signal differential transmission mode to ensure stronger ablility of anti-interference and longer transmission distance
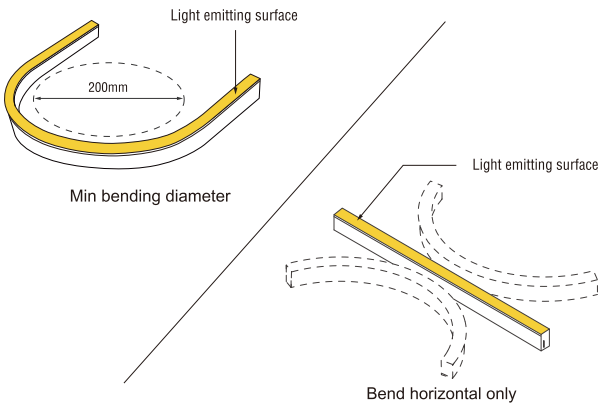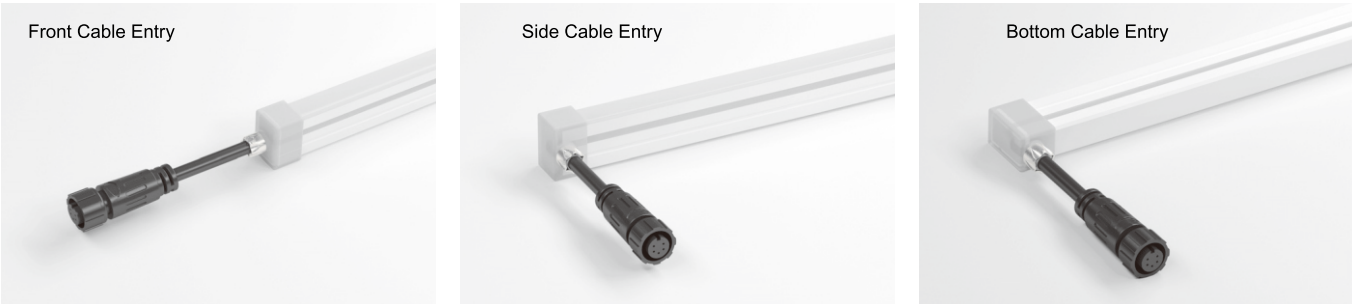
● Auto matically addressing with editor

RGB | BGRW | Solvent resistant | Saltwater resistant | UV protected | Cuttable | 50000 hours Lifetime | LM80 Compliant | 3 YEARS WARRANTY

Dimensions & Waterproof

Top view

14.6±0.5mm 8±0.5mm 13.0mm 12mm Light surface 5m 300mm

Side view

22.6±0.5mm 8±0.5mm 13.0mm 20mm Cutting length: 125mm

20mm 12mm

Product specification

Voltage	DC24 V
Power(w/m)	12(RGB) / 16(RGBW)
Lumen(lm/m)	RGB: R:25 / G:81 / B:18
	RGBW: R: 22.66/G: 69.7/B: 19/W:83.83
Control Mode	DMX512
Gray Scale	65536
Pixel(pix/m)	8
Cutting length(mm)	125
IP Grade	IP67
Ambient temperature	−25°C~45°C

Light emitting surface

200mm

Min bending diameter

Light emitting surface

Bend horizontal only

Cable outlet

Use three kinds of entry cable,to meet the different installing request

Front Cable Entry | Side Cable Entry | Bottom Cable Entry

Offline control connection diagram

Offline control
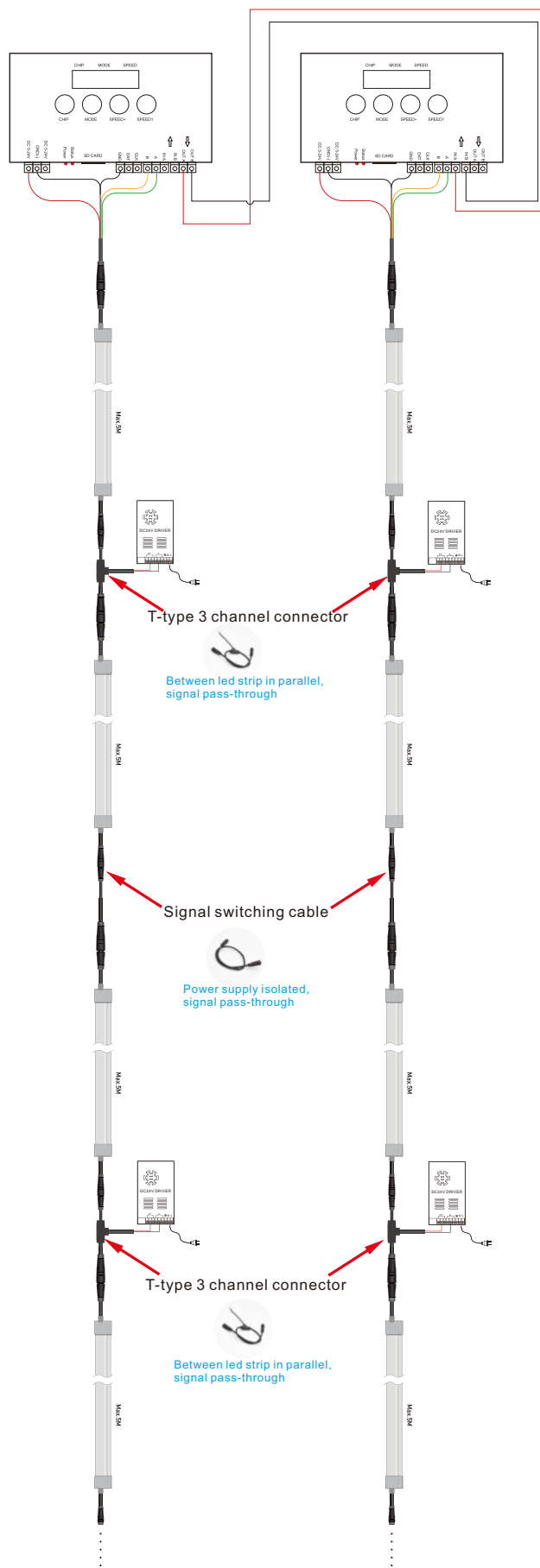
T-type 3 channel connector

Between led strip in parallel,
signal pass-through

Signal switching cable

Power supply isolated,
signal pass-through

T-type 3 channel connector

Between led strip in parallel,
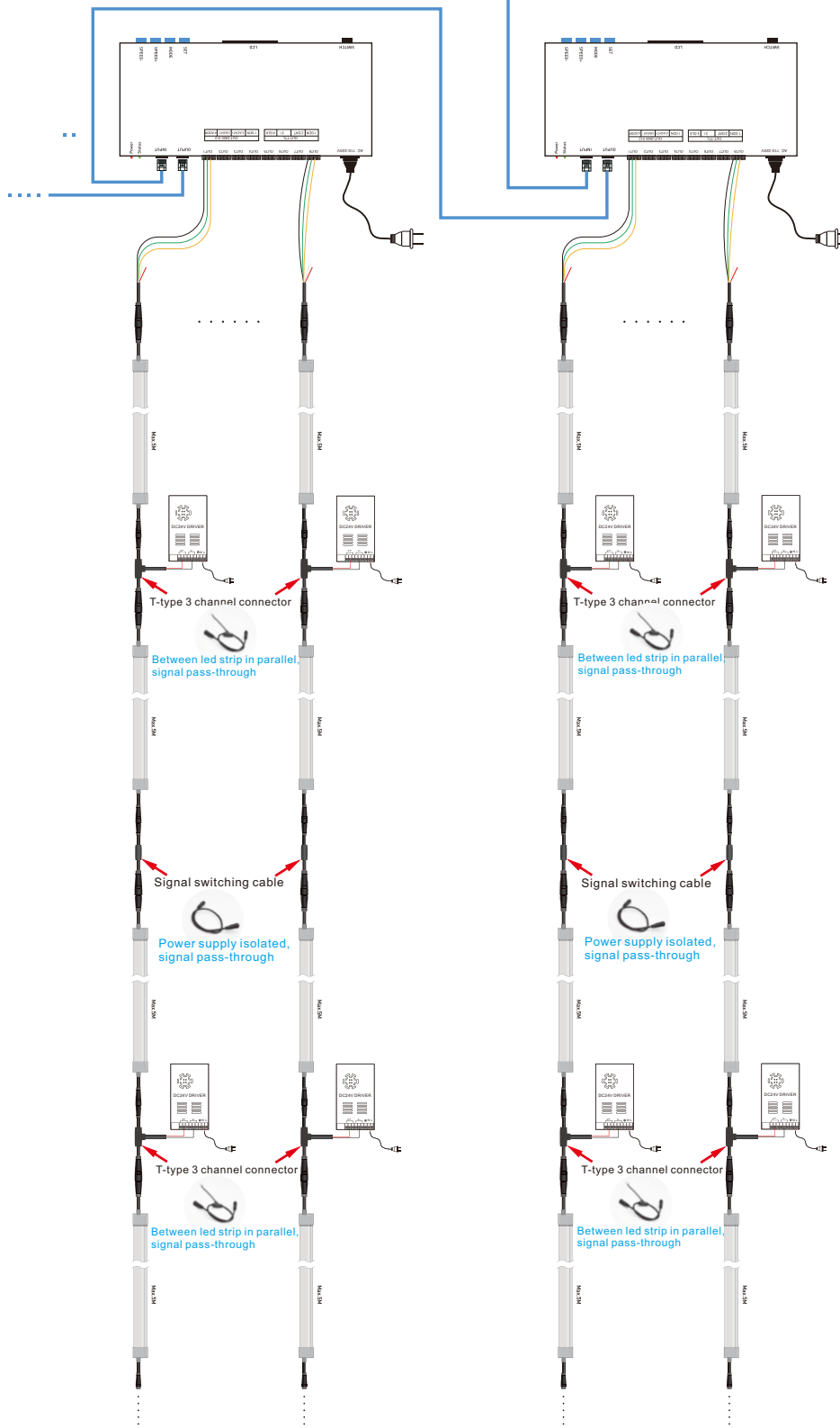signal pass-through

After the led strip is connected to the signal wire and power supply wire correctly, it is necessary to use a special addresser to address the led strip,then the controller / console can run the control effect program.

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Online control connection diagram

Online control

T-type 3 channel connector

Between led strip in parallel,
signal pass-through

Signal switching cable

Power supply isolated,
signal pass-through

T-type 3 channel connector

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Power supply isolated,
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Between led strip in parallel,
signal pass-through
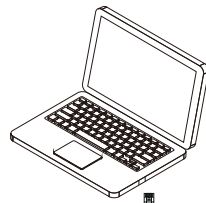
After the led strip is connected to the signal wire and power supply wire correctly, it is necessary to use a special addresser to address the led strip, then the controller / console can run the control effect program.

Addressing Instruction

The addressing operation is an operation that needs to be performed when the power is turned on for the first time after the wiring of led strip is completed; There is no need to address the led strip without changing the connection order of the led strip.

The led strip and the addressing device are connected according to the corresponding relationship in the following table:

Wire order of led strip input	Addressing device's port
green	A
yellow	B
black	GND

Using the K-1000C

The controller integrates control and addressing, and can only be automatically addressed backward to 512 channels from the default starting channel value 001. After addressing is completed, switch to the controller mode, you can automatically run the control effect program without power off. The operation is as follows:

① After the led strip and the controller are properly connected with the signal and power cable, power on

② After the controller is started, firstly hold down the "CHIP" button, then press the "MODE" button at the same time, the controller shows "61 XX XX", Release two buttons at the same time to enter the led strip's addressing interface, as shown below:

③ Press the "CHIP" button to adjust the displayed value of the first and second digits to "65", the last digit needs to be kept at "3" (if it is other numbers, can adjust the SPEED + / SPEED- two buttons), as follows Figure:

④ Press the "MODE" button to start addressing the led strip, the controller shows "A A A", as shown below:

⑤ Wait for the completion of addressing, and show "65 1 3",as shown in the figure below

⑥ Firstly press the "CHIP" button and then press the "MODE" button to exit the addressing mode and enter the controller mode, as shown in the following figure.

⑦ The display of the first and second digits of the controller must be "10". If it is other numbers, the led strip cannot be controlled normally. Adjust the "CHIP" button to select the displayed values of these two digits.

⑧ In the program broadcast mode, you can change the broadcast speed by adjusting the "SPEED +" and "SPEED-" buttons; If there are multiple programs in the SD card, you can select the program you need to play through the "MODE" button.
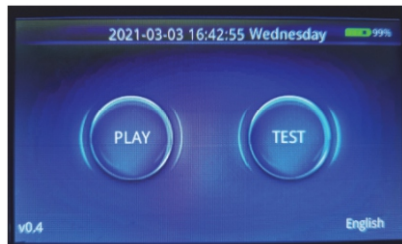
Address Writing

Use of XB-C100

This addresser can be used for addressing and post-addressing testing. After the addressing operation is completed, disconnect the led strip's signal input wire from the addresser and connect it to the DMX512 controller or console, control the effect program by the controller or console
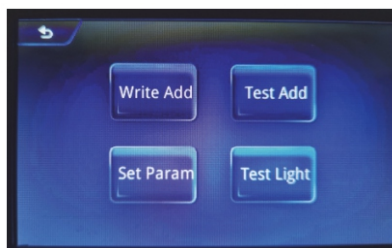
The addresser can implement customized initial channel value setting. The addressing operation is as follows:

❶ After the addresser is connected to the signal wire of the led strip; the led strip and the addresser are powered on.

❷ After the addresser is turned on, select "Test".
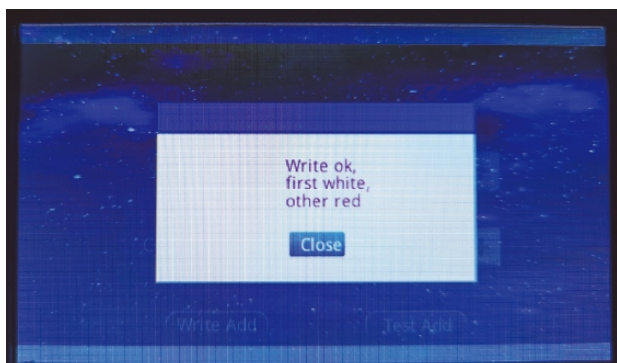

❸ Select "Write Add"

❹ Select "SM Series"

❺ RGB DMX strip Select "SM1651X-3CH", RGBW DMX strip Select "SM17512"

❻ Click to select the data as picture below and select "Write Add".
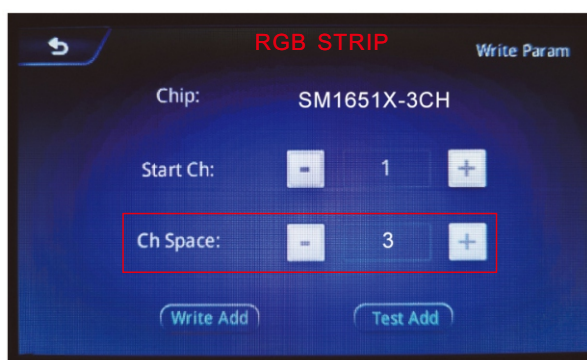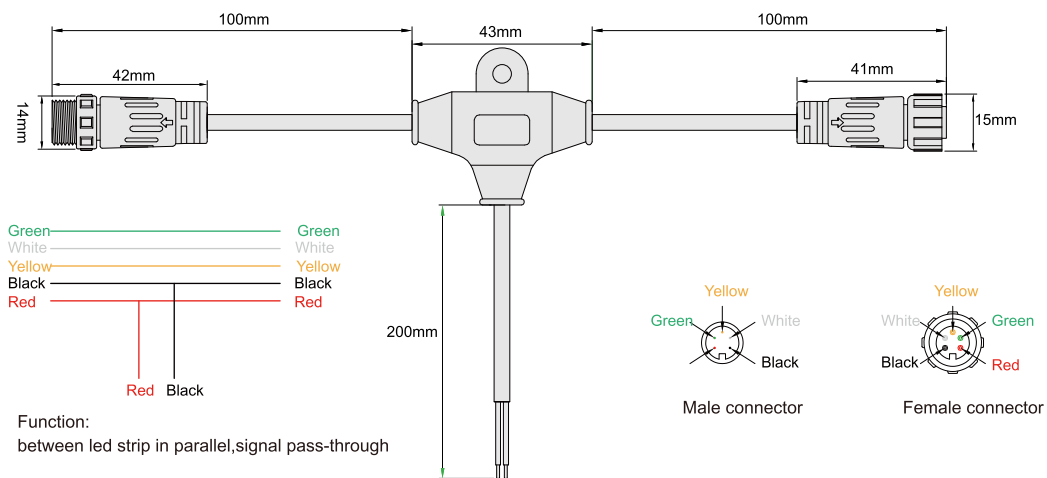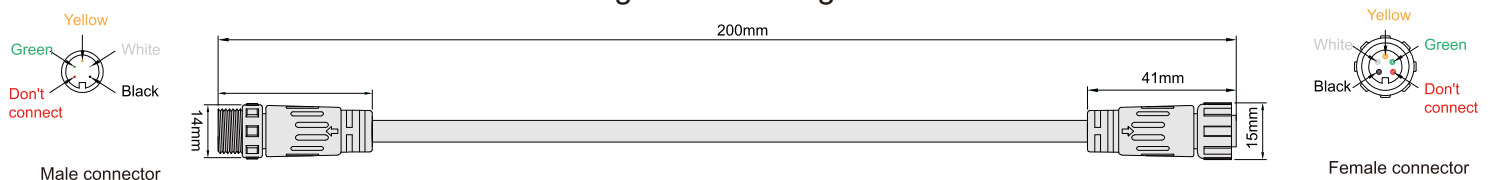

❼ Click "Close" to finish address writing.

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Connector cable instruction

T-type 3 channel connector

100mm | 43mm | 100mm
42mm | 41mm
14mm | 15mm

Green — Green
White — White
Yellow — Yellow
Black — Black
Red — Red

Red Black

200mm

Function:
between led strip in parallel,signal pass-through

Yellow
Green | White
Black
Male connector

Yellow
White | Green
Black | Red
Female connector

Signal switching cable

Yellow
Green | White
Don't connect | Black
Male connector

200mm
41mm
14mm | 15mm

Yellow
White | Green
Black | Don't connect
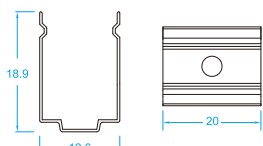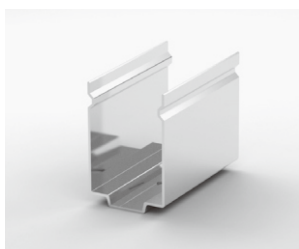**Female connector**

Cutting method

Cutting Mark

Remark: The bottom of the led strip has transparent window,the black marker is the cutting position
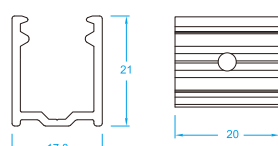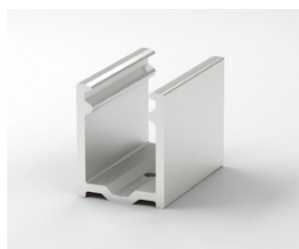
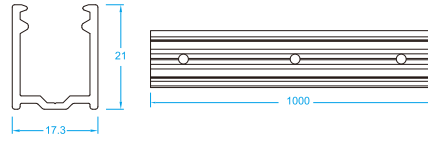90° ✔ ✔
❌ ❌ ❌
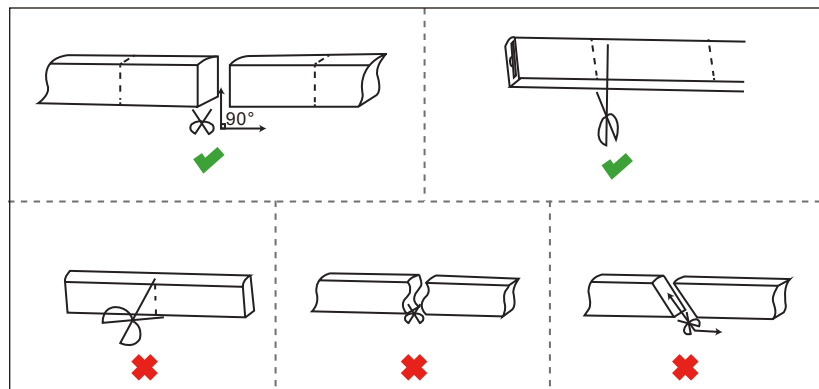
Mounting Accessory

Stainless Steel Mounting clips | Aluminium Mounting clips | Aluminium Profile | Suspension Installation

18.9
12.6 | 20

21
17.3 | 20

21
17.3 | 1000