pluxb

CE EAC IP67

A++ ENERGY LEVEL | LED | F | RoHS COMPLIANT | LM-80 | FLICKER FREE

MOLLY RGBW

Vertical Bend | **Flame Resistant** | **UV Resistant** | **Salt Water Resistant** | **IK08 Protection** | **RGBW**
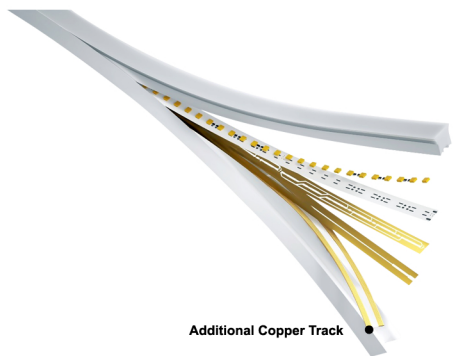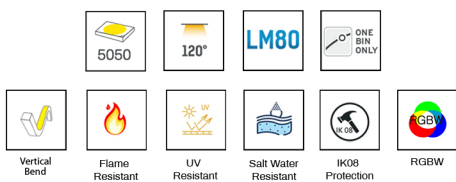
5050 | 120° | LM80 | ONE BIN ONLY

DESCRIPTION:

MOLLY RGBW Vertical bend Neon Flex lighting features, designed to maintain reliable performance even in the event of a broken board, By incorporating an additional layer of copper foil on the back of the flexible printed circuit (FPC).
This not only ensures greater durability but also provides superior thermal management, as the copper layer acts as an efficient heat sink to dissipate heat from the LEDs.
The result is a longer-lasting, more robust lighting solution that delivers both performance and reliability in demanding applications. Control mode : DALI, DMX.

TECHNICAL DETAILS:

Power : 12W/M
Voltage : DC24V
CRI >90
Length/Reel : 5M
Cutting length: 62.5mm
Led Qty : 96LEDs/M
Working Temperature : -25~60°C
Storage Temperature : -25~70°C
Voltage Range : 23 ~25V dc
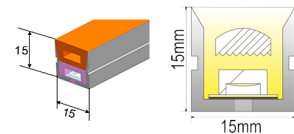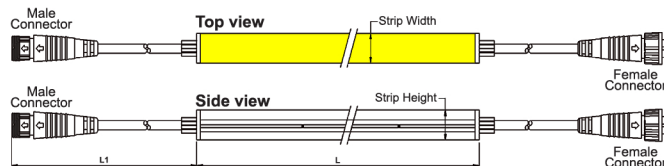Reverse Voltage : 25V dc
Warranty : 5 years

LUMENS PER METER:

CCT	12W
RGB 2700K	228lm/W
RGB 3000K	240lm/W
RGB 4000K	252lm/W
RGB 6500K	260lm/W

INSTALLATION : Vertical Bend

Product Code : 7721515

DIMENSION:

Additional Copper Track

LIGHT DISTRIBUTION:

UNIT:cd
C0/180,115.3
C30/210,117.8
C60/240,120.4
C90/270,121.3

AVERAGE BEAM ANGLE(50%) :118.7 DEG

0.9500	0.1600
0.7900	0.1300
0.6300	0.0790
0.4800	0.0630
0.3200	0.0480

BENDING:

Ø 300
Light Surface

End cap

Wire at end	Wire at side	Wire at bottom

Order Code Ex : 7721515 | 12 | 27
Product Code | Power | CCT
7721515 | 12-12W | 82-RGBW
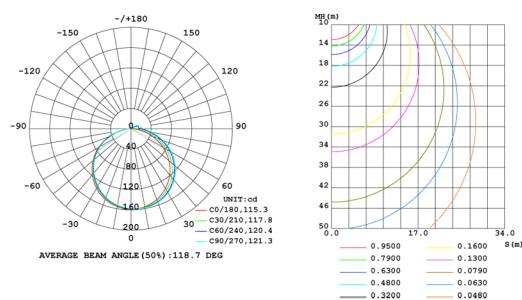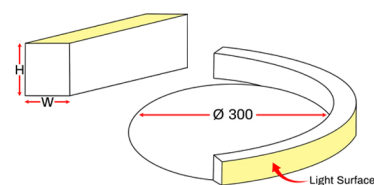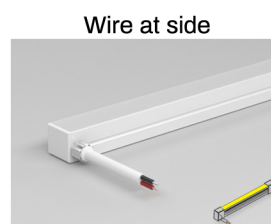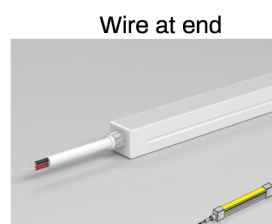
Standards

EN 60598-1
EN 60598-2-2
EN 60598-3-2

Pluxb luminaires are developed with globally recognized and tested components suppliers, however as per international standards tolerance in initial flux and connected load is at ±5%. Unless stated otherwise, the values apply to an ambient temperature of 25°C
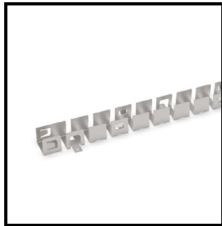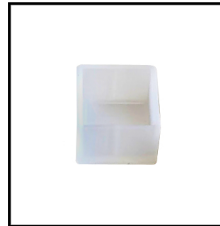
www.pluxb.com

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ACCESSORIES

Aluminium Profile
Order Code: 7721515-01
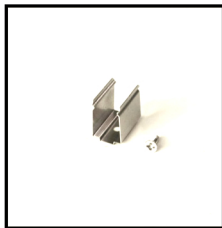Dimension:L1000xW20.5xH17.6mm
Material: aluminium
Color: silver
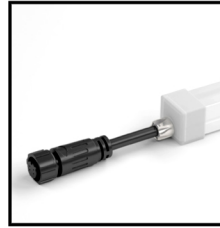
End Cap 5PIN
Order Code: 7721515-06
Color: white
Cable entry: front/side/bottom
Picture: front

Curved Profile
Order Code: 7721515-02
Dimension:L500xW17xH15mm
Material: stainless steel
Color: silver

Closed End Cap
Order Code: 7721515-07
Material: silicone
Color: white

Mounting Clips
Order Code: 7721515-03
Dimension:L20xW16.6xH12.4mm
Material: stainless steel
Color: silver
Each meter led strips needs
2 clips + 2 screws

IP67 T Type Connector
Order Code: 7721515-08
Wire Gauge: 0.326mm²/22AWG
Protection: IP67 (Mated)

IP67 Connector 5PIN
Order Code: 7721515-04
Wire gauge: 0.326mm²/22AWG
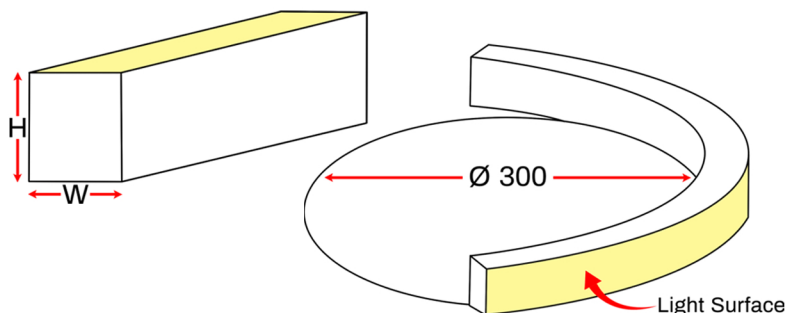Protection: IP67 (Mated)

Scissor
Order Code: 7721515-09

IP67 Connector 5PIN
Order Code: 7721515-05
Wire gauge: 0.326mm²/22AWG
Protection: IP67 (Mated)

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ADDITIONAL INFO.

- ▸ Please light it up for a quick check before installation.

- ▸ Bending diameter of MOLLY RGBW 1515 is 300mm, do not bend to side direction, or bend too sharp or twist. If bend it wrongly, PCB inside will be damaged and the lighting fixture will not turn on.

- ▸ During installation, please make sure there are at least two workers to cooperate together and strictly follow the instruction manuals.

- ▸ Warranty: All LED light are warranted to be free from defects in product itself for 5 years from the date of purchase. This warranty does not cover failures due to abuse, misuse, improper handling, act of nature, negligence, normal wear, accidental damage, repairs made by the purchaser or incorrect voltage conditions.
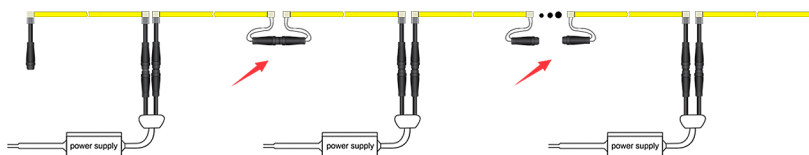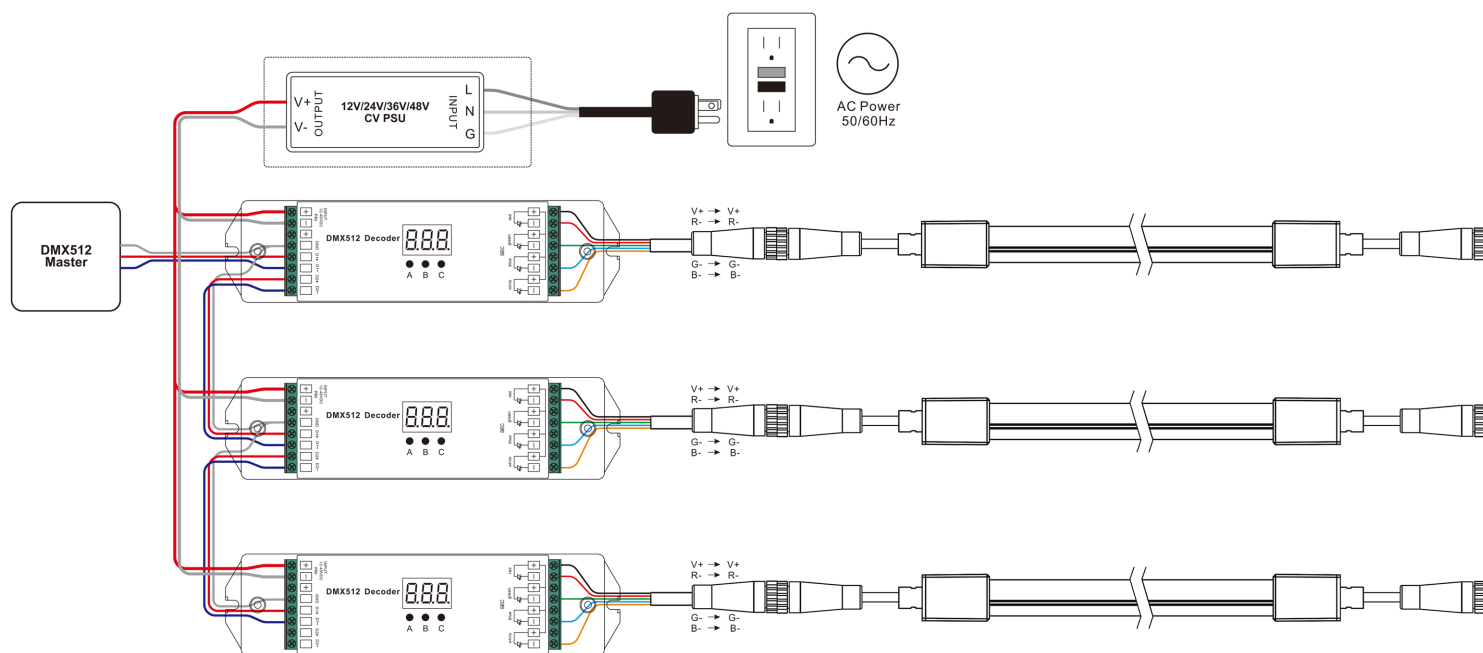

Note:
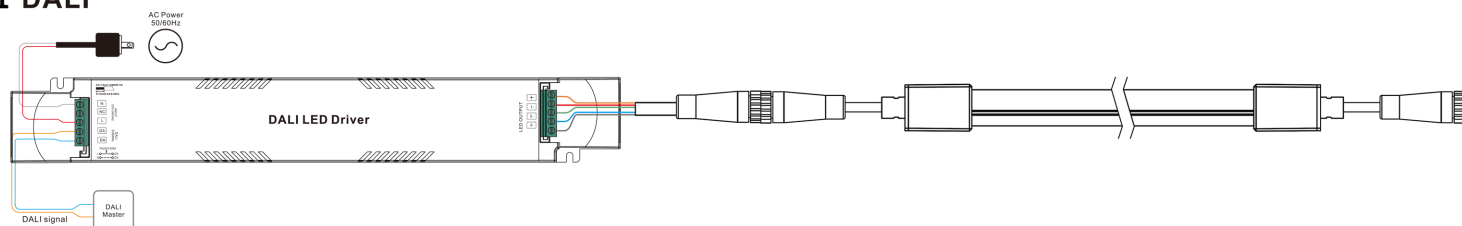
-12W/M Max. 10mtr run length to single side feed.

-The given data are typical values due to the tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 5%.
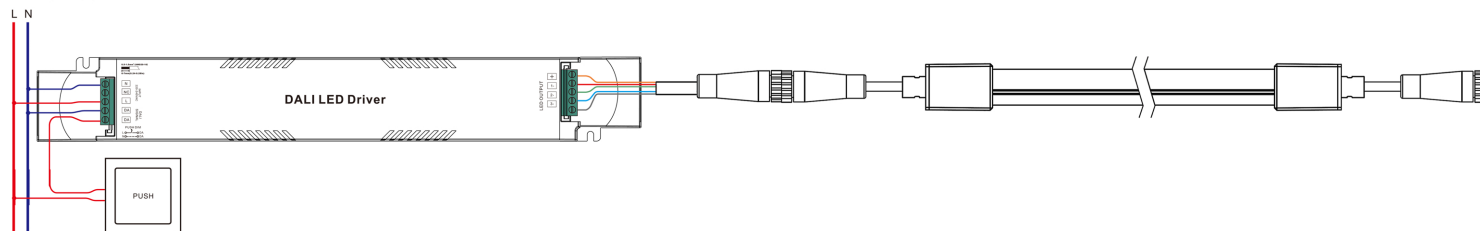
WIRING DIAGRAM

DMX

12V/24V/36V/48V CV PSU

OUTPUT V+ V−

INPUT L N G

AC Power 50/60Hz

DMX512 Master

DMX512 Decoder A B C

V+ → V+
R− → R−
G− → G−
B− → B−

1 DALI

AC Power 50/60Hz

DALI LED Driver

DALI signal

DALI Master

### 2. With Push Dim
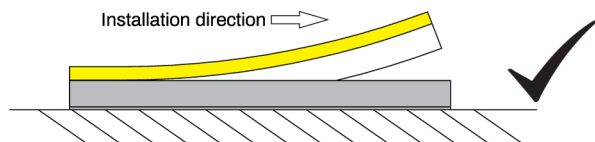
L N

DALI LED Driver

PUSH

GENERAL MOUNTING

LED neon flex can be fastened to surfaces using appropriate accessories available from distributor. Please refer to data sheets or contact technical support for a copy. The use of glues and resins as fixing agents should be avoided. Use of glues and resins may invalidate the warranty of the product unless it's use is agreed in writing by distributor as part of a detailed project specification.

The images indicate one type of fixing available in the accessories range. The different fixings serve obvious purposes, however when in doubt technical support should be contacted.

Quantities of accessories and fixings are dependent on the type and its effect on the variant it's being used with. Care should be taken to ensure drooping is avoided, and to ensure that is fastened adequately to avoid stresses on itself.

Aluminum profile

Screw

Installation surface
(Wood or concrete wall)
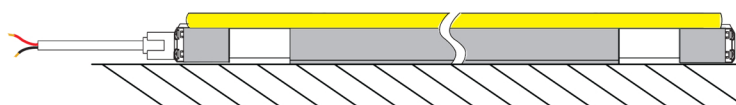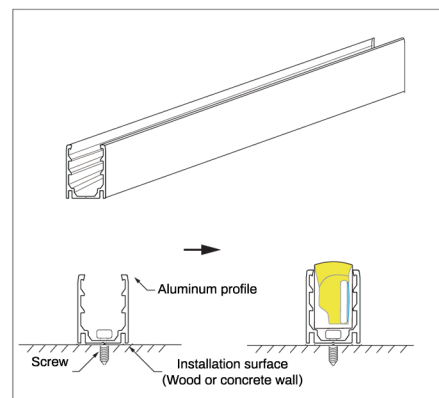
Press the flex light into mounted aluminum channel in one direction.

Installation direction

Incorrect installation like below picture could lead to light failure.

Installation direction
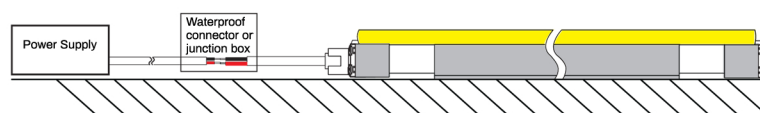
Installation direction

>100mm
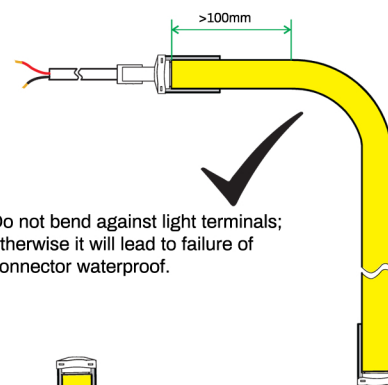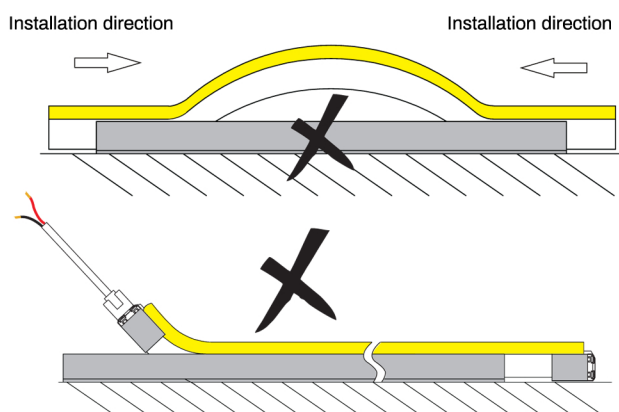
Do not bend against light terminals; otherwise it will lead to failure of connector waterproof.

<100mm
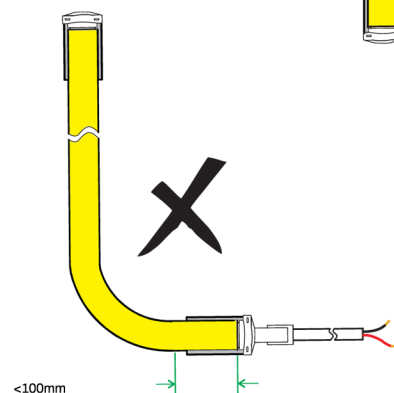
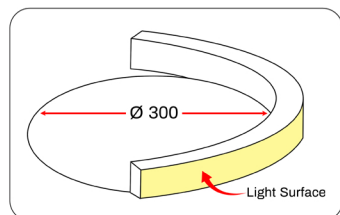Ensure the feeding cable not bear force, keep the head10mm in natural loose.

>10mm

Pull
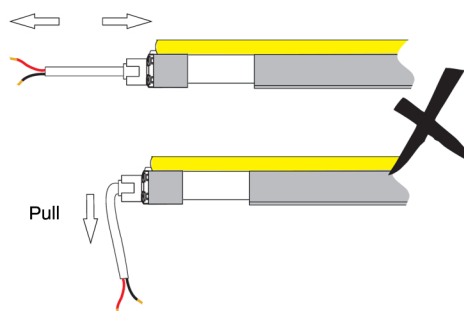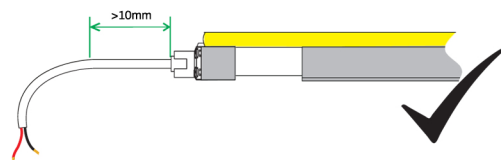
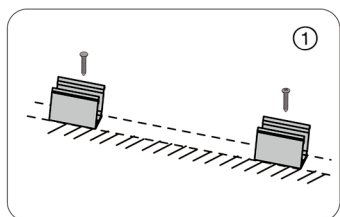Mount the cable junction in hermetic enclosure like waterproof junction box in outdoor application.

Power Supply

Waterproof connector or junction box

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Attention

Ø 300

Light Surface

1. Correct bending way

Intallation

①

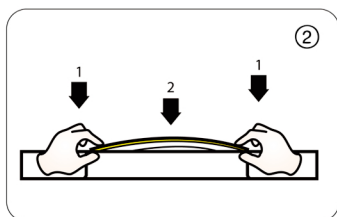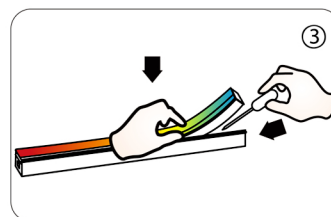### 1. Installation of clip

Fix the clips and aluminum
profile via the screws

⚠ Suggestion: 2pcs clips per
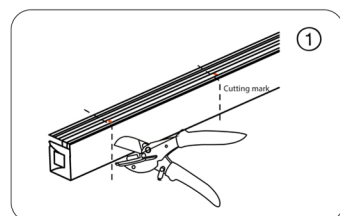meter.

②

2. Installation of Neon

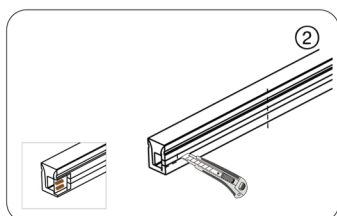Simultaneously install the neon
from both ends

③

3. Installation of Neon

Should use tools to assist when
remove the neon

Cutting/Soldering/Intall end cap
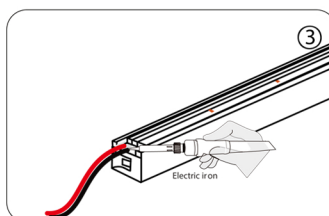

① Cutting mark

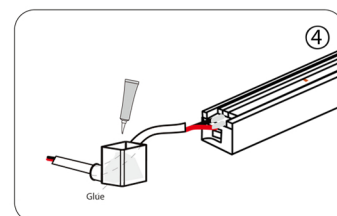### 1. Cut the neon to be required length

⚠ The minimum cutting unit
is based on the cutting
mark.

②

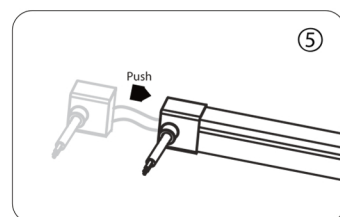### 2. Cut the side of neon, expose the soldering pad

③ Electric iron

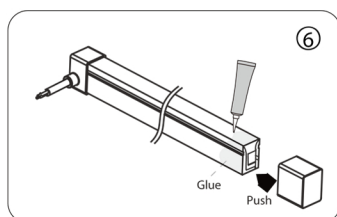### 3.Solder the cable onto the PCB

④ Glue

4.Put the wire into and inject glue into the end cap

⚠ The amount of glue is
about1/3-1/2 of end cap

⑤ Push

5. Push the end cap to wrapp end of neon

⚠ After the glue is injected,
the neon needs to be laid
flat for 2 hours to before
other process.

⑥ Glue Push

6. Apply gel around the tail of neon and install the end cap

⚠ After the glue is injected,
the neon needs to be laid
flat for 2 hours to before
project process. Glue will
complete dry after 24hours.