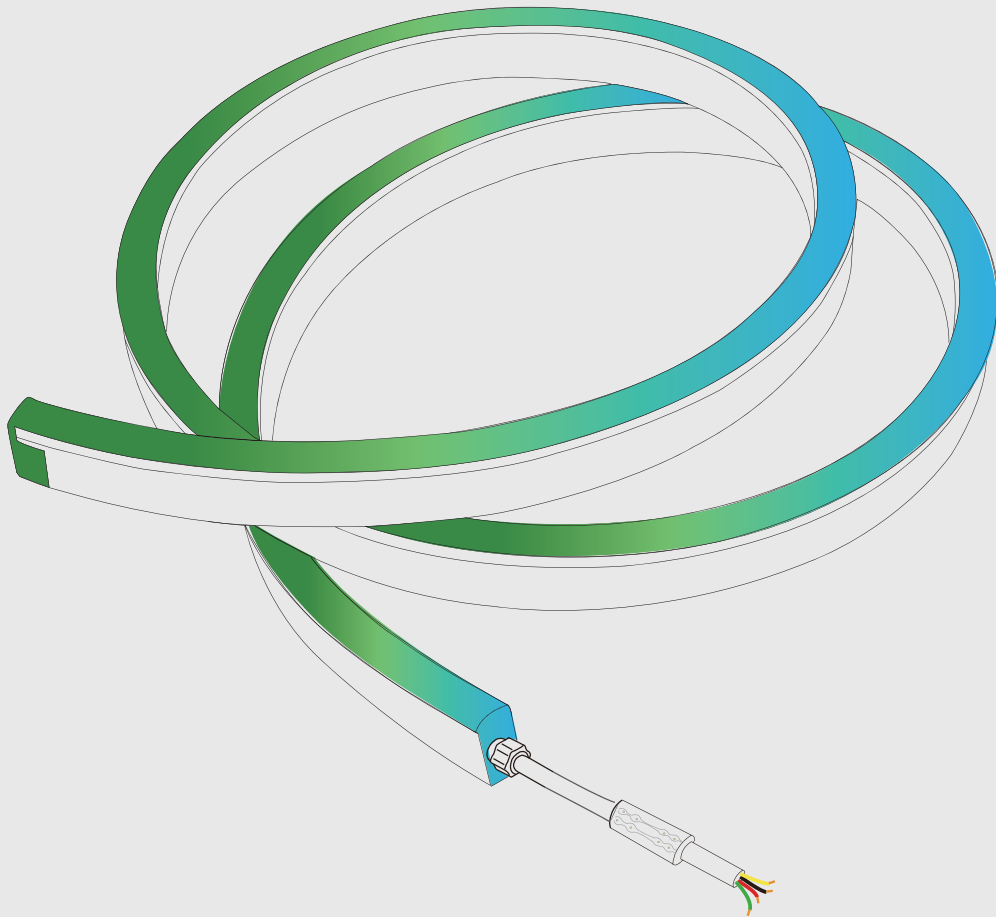




# **F15 DMX Pixel Chasing Neon Flex**

## **Specification**

### Dimension



Gross weight:  
0.4kg/m



Controlled:  
DMX controller



Installation Temp.:  
0°C to +55°C



Ambient Temp.:  
-25°C to +55°C



Min. Bending :  
80mm



Beam Angle :  
120 degree



Eco-friendly PVC or Silicone  
Housing material optional

### Features

Uniform and even light output

Flat surface with 120 degree beam angle

56LEDs or 70LEDs optional, UCS512B3, RS485 IC built in

Connect with DMX512 signal controller

Full encapsulated with IP68 Level

High Reliability

3 or 5 Years warranty

### Applications

Building facade, outline

Cove lighting

Sign and advertising lighting

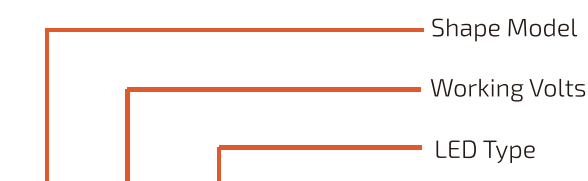
Linear lighting

Additional lighting

Decorative lighting



### Model Encoding



F15-24V-5050-56-DMX-RGB

LED Quantity

Work mode

Color

MJ D4 S02SM  
MJ-15-D4-S02SM  
1 2 3 4 5

- 1 Mold injection
- 2 Pixel chasing RGB
- 3 Connector entry type
- 4 Connector direction
- 5 Cable connector type

01----- right

02-----left

03-----double

SM----- male connector cable

SF-----female connector cable

SMF-----male & female connector cable

S----- Side entry

D-----Direct entry

B-----Bottom entry

[For more information](#)

Email: [info@neonled.sk](mailto:info@neonled.sk)

Or visit [www.neonled.sk](http://www.neonled.sk)



# F15 Pixel chasing series LED neon flex

## Technical Specification

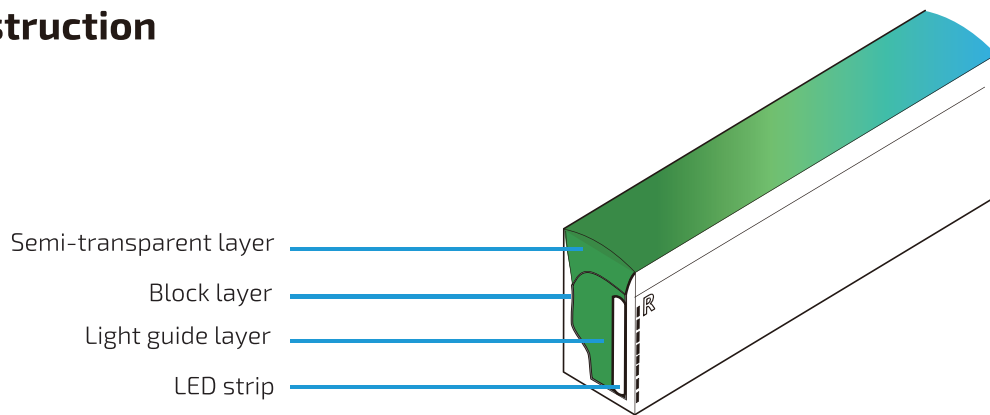
|                          |                                               |                         |                             |                             |
|--------------------------|-----------------------------------------------|-------------------------|-----------------------------|-----------------------------|
| Model                    | F15-24V-5050-56-DMX-RGB                       | F15-24V-5050-70-DMX-RGB | F15-24V-5050-70-DMX-RGBW    | F15-24V-5050-56-DMX-RGBW    |
| Operating voltage        | 24V                                           | 24V                     | 24V                         | 24V                         |
| Power consumption        | 12W/M                                         | 15W/M, 10W(DW)          | 18W/M                       | 1.8W/5 inch                 |
| Working Mode             | DMX(UCS512B3)                                 | DMX(RS485)              | DMX(RS485)                  | DMX(RS485)                  |
| LED type                 | SMD5050                                       | SMD5050                 | SMD5050                     | SMD5050                     |
| LED Quantity             | 56 pcs/m                                      | 70 pcs/m                | 70 pcs/m                    | 56 pcs/40 inch              |
| Available Color          | RGB/3000K/DW                                  | RGB/3000K/DW            | RGBW<br>(2200K/3000K/4000K) | RGBW<br>(2200K/3000K/4000K) |
| Min. cutting Unit        | 7 LEDs                                        | 7 LEDs                  | 7 LEDs                      | 7 LEDs/5 inch               |
| Min. cutting length      | 12.5cm                                        | 10cm                    | 10cm                        | 5inch(12.7cm)               |
| Pixels Qty/m             | 8 Pixels                                      | 10 Pixels               | 10 Pixels                   | 8 Pixels                    |
| Max. length single feed  | 7m                                            | 8m                      | 8m                          | 315 inch(8m)                |
| Max. length double feed  | 14m                                           | 16m                     | 16m                         | 630 inch(16m)               |
| Number of wire cores     | 4 wires                                       | 5 wires                 | 5 wires                     | 5 wires                     |
| Bending direction        | Horizontally                                  |                         |                             |                             |
| Lumen maintenance        | 70 000 Hours L70 25°C , 50 000 Hours L70 50°C |                         |                             |                             |
| Housing material         | Eco PVC or Silicone                           |                         |                             |                             |
| Installation temperature | 0°C to -55°C                                  |                         |                             |                             |
| Ambient temperature      | -25°C to +55°C                                |                         |                             |                             |
| Ingress protection       | IP68 wet location submersible* to 2m          |                         |                             |                             |
| Warranty                 | 3 years as standard, 5 years warranty maximum |                         |                             |                             |

[For more information](#)

Email: [info@neonled.sk](mailto:info@neonled.sk)

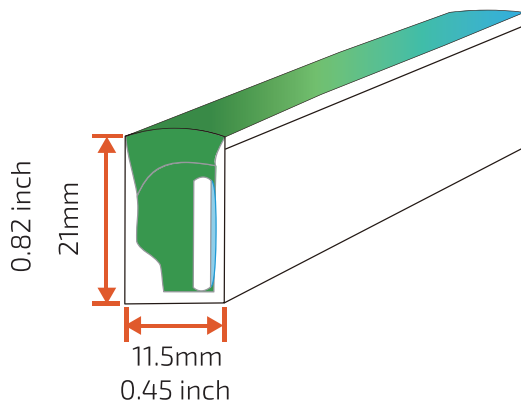
Or visit [www.neonled.sk](http://www.neonled.sk)

### Construction

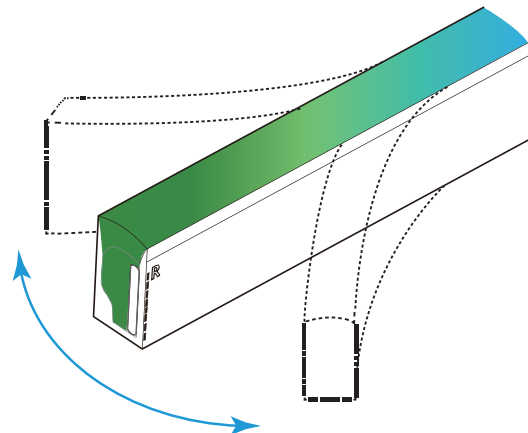


### Physical Specification

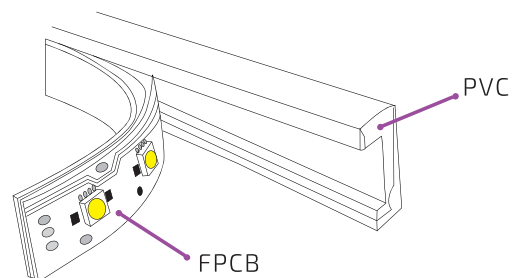
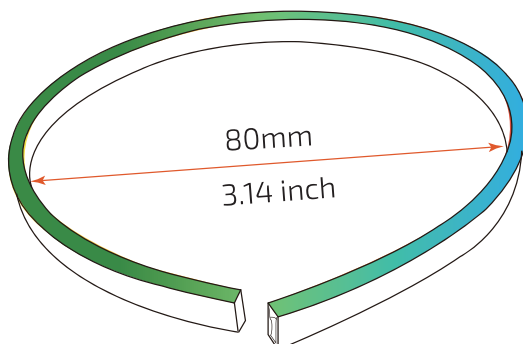
Light profile



Bending direction



Min. bending diameter



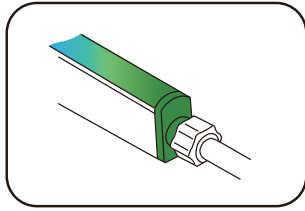
For more information

Email: [info@neonled.sk](mailto:info@neonled.sk)

Or visit [www.neonled.sk](http://www.neonled.sk)

### Mold injection connector

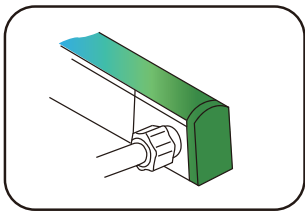
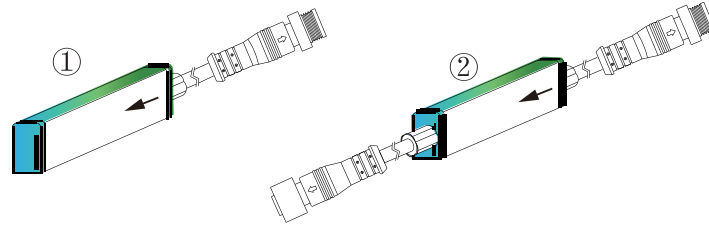
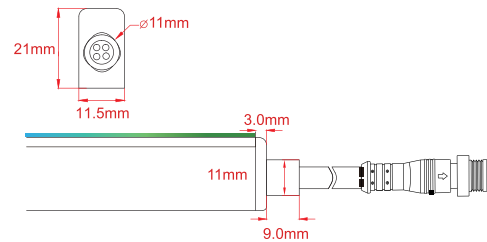
(IP68 Factory Assembly only)



Direct entry Connector

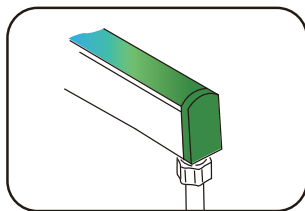
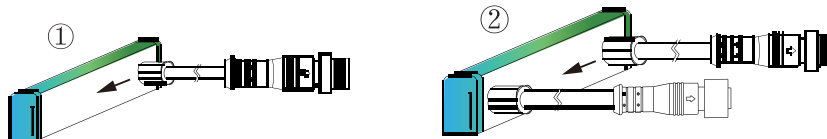
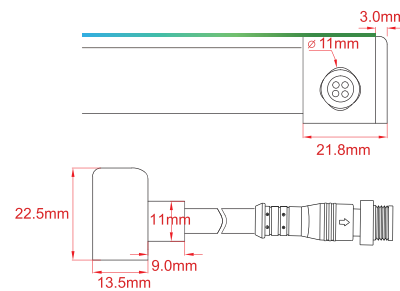
D4 : 4 of wire cores  
D5 : 5 of wire cores

- ① MJ-15-D4-D02SM  
MJ-15-D5-D02SM
- ② MJ-15-D4-D03SFM  
MJ-15-D5-D03SFM



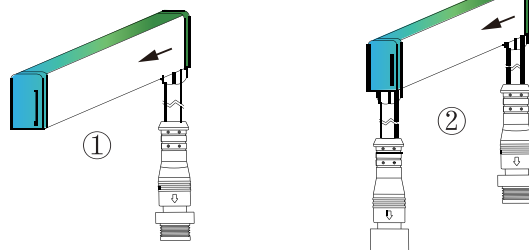
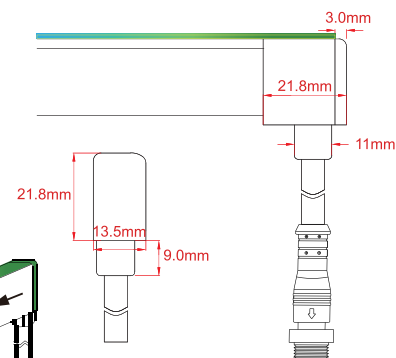
Side entry Connector

- ① MJ-15-D4-S02SM  
MJ-15-D5-S02SM
- ② MJ-15-D4-S03SFM  
MJ-15-D5-S03SFM



Bottom entry Connector

- ① MJ-15-D4-B02SM  
MJ-15-D5-B02SM
- ② MJ-15-D4-B03SFM  
MJ-15-D5-B03SFM



For more information

Email: [info@neonled.sk](mailto:info@neonled.sk)

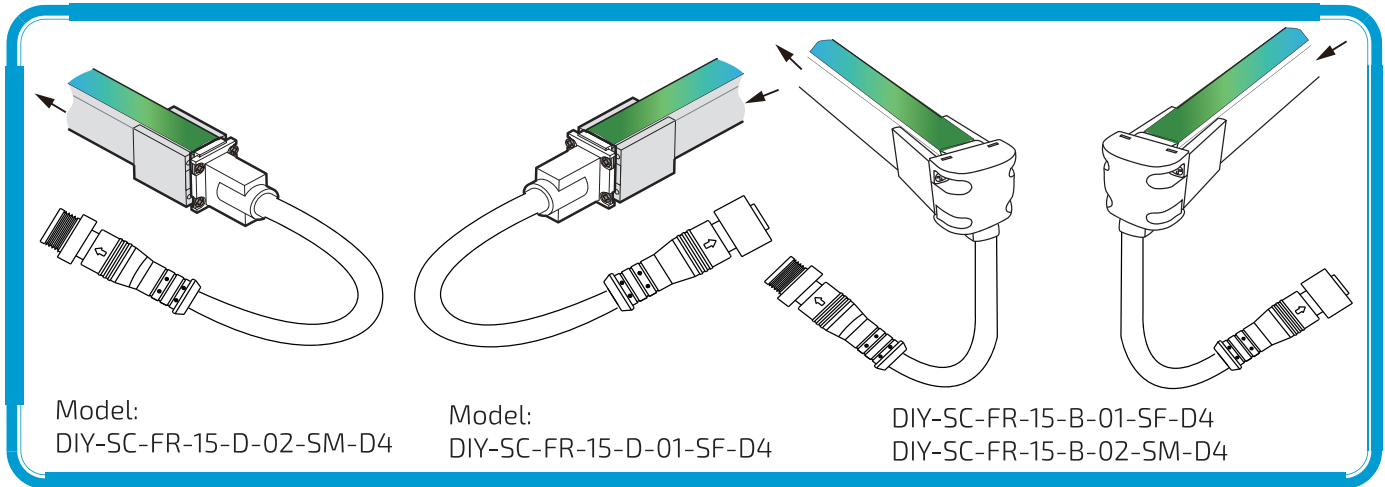
Or visit [www.neonled.sk](http://www.neonled.sk)



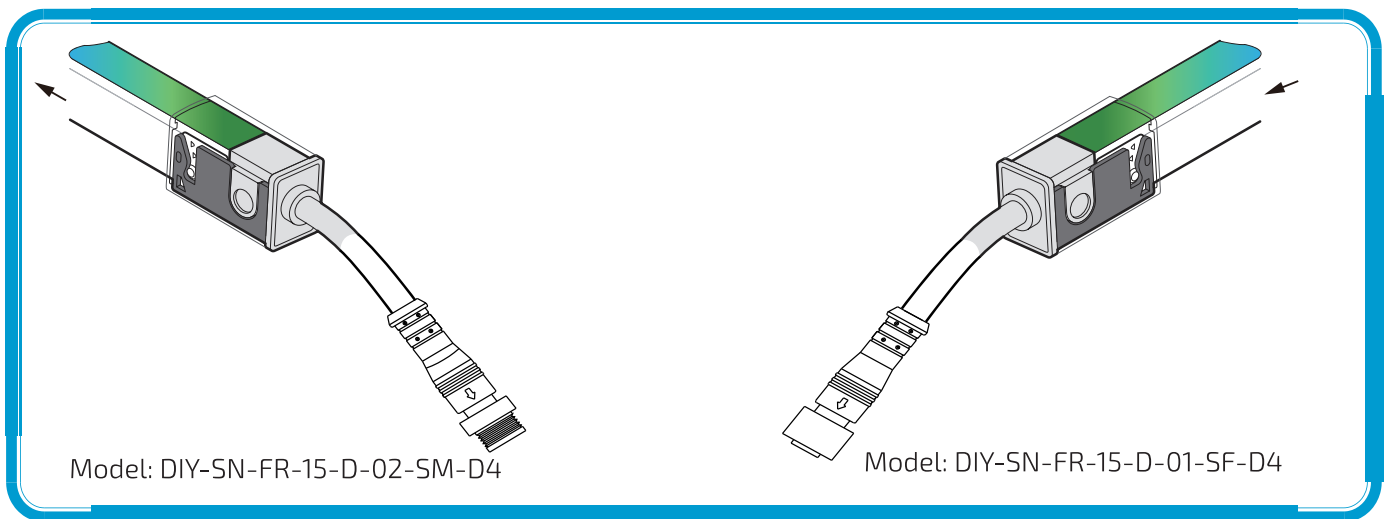
## F15 Pixel chasing series LED neon flex

### DIY Screw & Snap Connector Kit (IP67 Only)

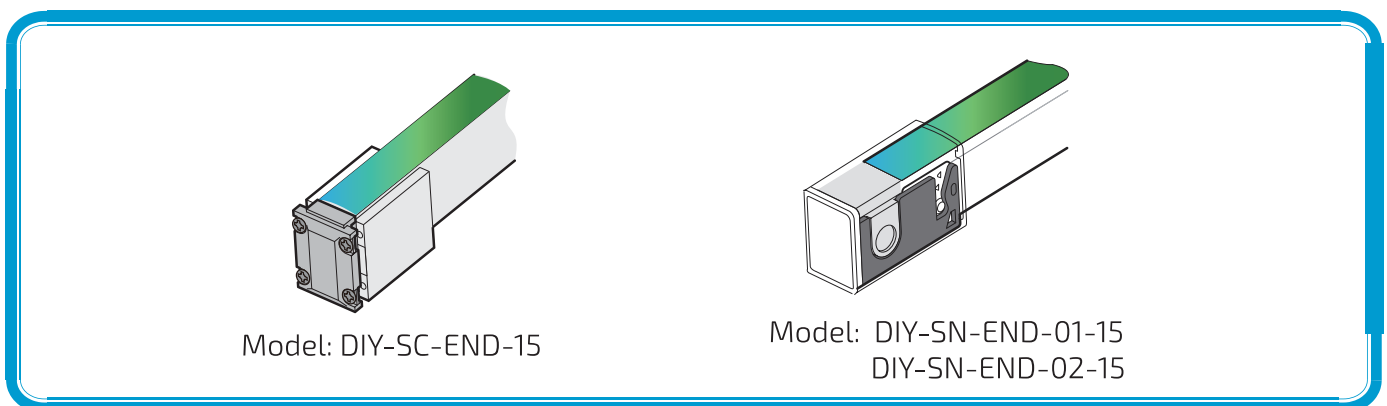
DIY screw front connector (Only suit for Model of F15-24V-5050-56-DMX-RGB )



DIY snap front connector (Only suit for Model of F15-24V-5050-56-DMX-RGB )



DIY snap & screw end cap kit



[For more information](#)

Email: [info@neonled.sk](mailto:info@neonled.sk)

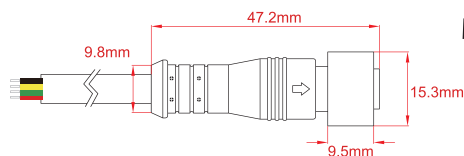
Or visit [www.neonled.sk](http://www.neonled.sk)

### Other Accessories

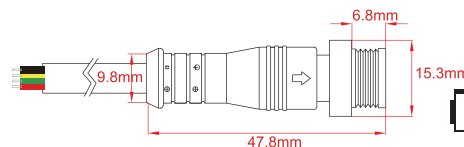
Female & Male Connector



Suit for Model of  
F15-24V-5050-56-DMX-RGB

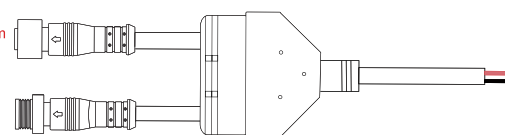


Female connector wire  
SYZ-M12-F-4C-05-W

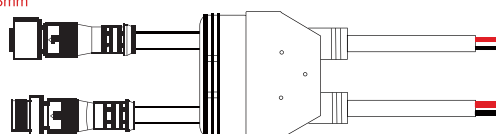


Male connector wire  
SYZ-M12-M-4C-05-W

Middle power connector



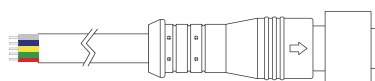
MID-CNR-512B3-1T2



MID-CNR-512B3--2T2



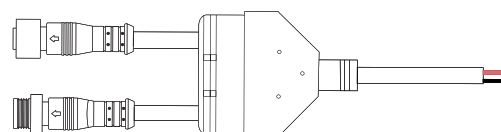
Suit for Model of  
F15-24V-5050-70-DMX-RGB  
F15-24V-5050-56-DMX-RGBW  
F15-24V-5050-70-DMX-RGBW



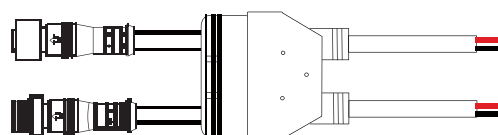
Female connector wire  
SYZ-M12-F-5C-05-W



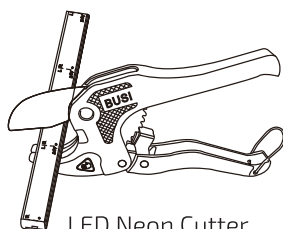
Male connector wire  
SYZ-M12-M-5C-05-W



MID-CNR-512C3-1T2



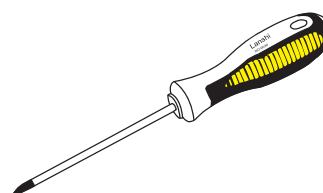
MID-CNR-512C3--2T2



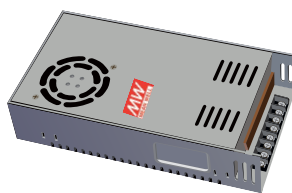
LED Neon Cutter  
ACC-TOOL-C1



Silicone Rubber  
K-5905



Screwdriver  
ACC-TOOL-C2



Mean Well Transformer  
Non-waterproof Series



Mean Well Transformer  
Waterproof Series



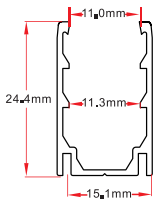
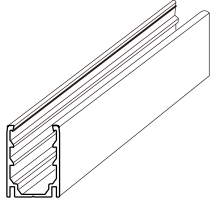
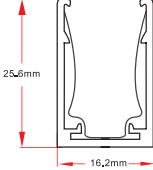
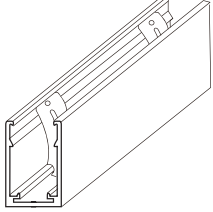
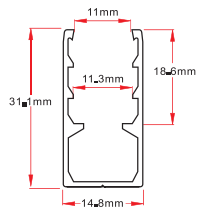
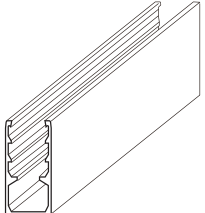
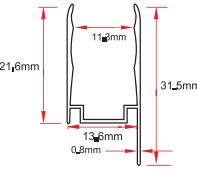
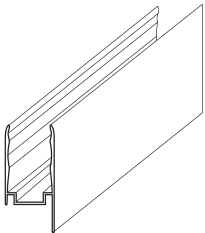
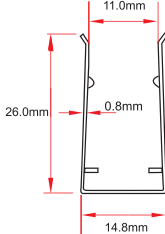
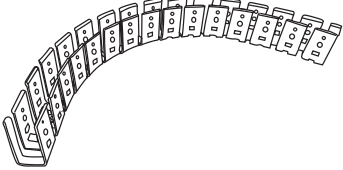
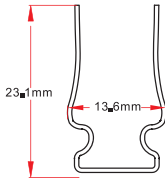
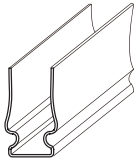
Assistant Tool  
ACC-TOOL-C3

For more information

Email: [info@neonled.sk](mailto:info@neonled.sk)

Or visit [www.neonled.sk](http://www.neonled.sk)

### Mounting Channel

| Model    | Description                                                                                                                                           | Dimension                                                                           | Drawing                                                                               |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ALC15S01 | Use for : F15 & F21<br>Length option:1m,2m,35mm<br>Material:Aluminum alloy<br>Optional color:AS/AB/PW<br>Type: Standard                               |    |    |
| ALC15S02 | Use for : F15 & F21<br>Length option:1m,2m,35mm<br>Material:Aluminum alloy<br>Optional color:AS/AB/PW<br>Type: Anti-drop for upside down installation |    |    |
| ALC15H01 | Use for : F15 & F21<br>Length option:1m,2m,35mm<br>Material:Aluminum alloy<br>Optional color:AS/AB/PW<br>Type: Cable hiding                           |   |   |
| ALC15V01 | Use for : F15 & F21<br>Length option:1m,2m,35mm<br>Material:Aluminum alloy<br>Optional color:AS/AB/PW<br>Type: Vertical installation                  |  |  |
| SSC15FLX | Use for : F15 & F21<br>Length option:10cm,30cm,50cm,100cm<br>Material: Stainless steel<br>Optional color: Polished<br>Type: Flexible                  |  |  |
| SSC15S01 | Use for : F15 & F21<br>Length option: 5cm<br>Material: Stainless steel<br>Optional color: Natural color<br>Type: 316 stainless steel                  |  |  |

### Packing

Standard: Carton ( Paper reel inside)



Fixture Length

787.4in(20m)

787.4in(30m)

Paper Reel

D12.99\*H6.18in(33\*15.7cm)

D12.99\*H6.18in(33\*15.7cm)

Carton Dimension

33\*33\*18cm

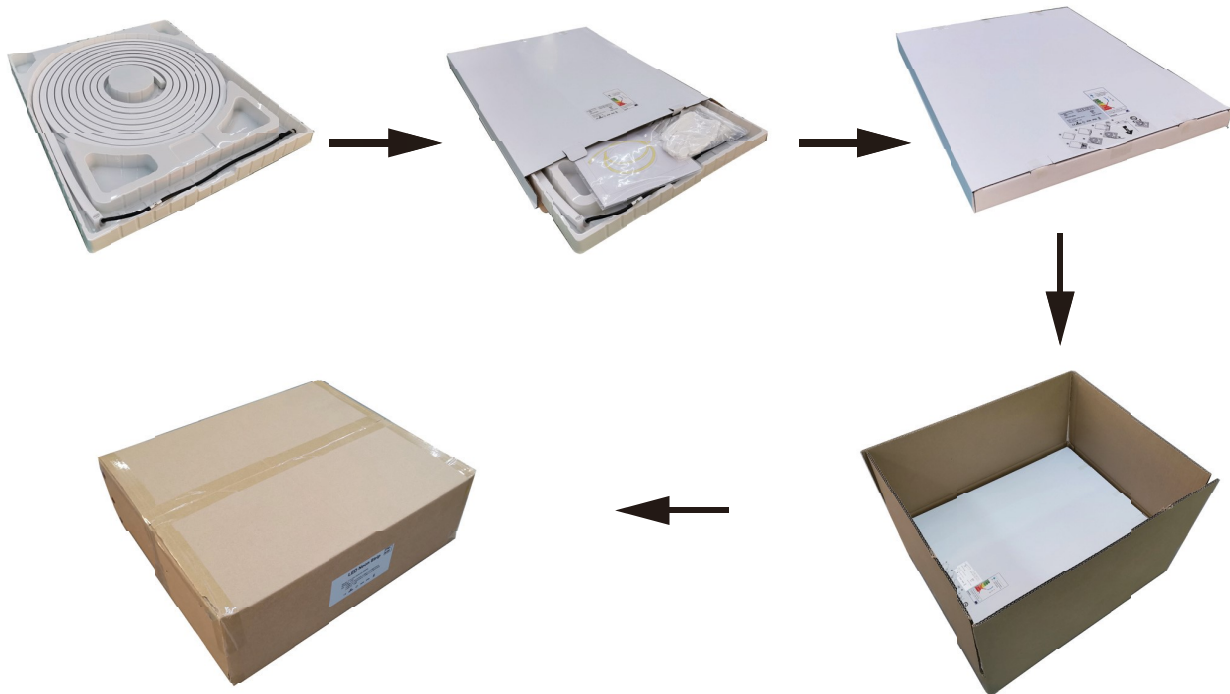
33\*33\*18cm

Gross Weight

17.63 lbs ( 8 kg )

26.45 lbs ( 12 kg )

Custom: Carton ( White box+plastic plate inside)



Fixture Length

196.85in(5m)

393.7in(10m)

White box Dimension

13.78\*1.65\*18.11in(38\*3\*38 cm)

21.6\*1.38\*18.9in(55\*3.5\*48cm)

Carton Dimension

41\*41\*16cm

57\*49\*19cm

White box Quantity

Max 4pcs

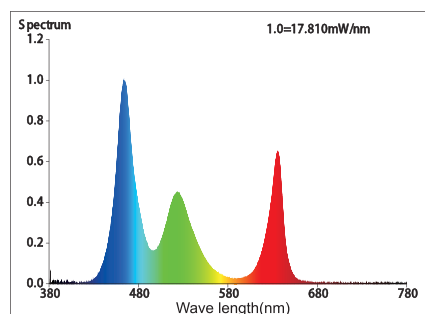
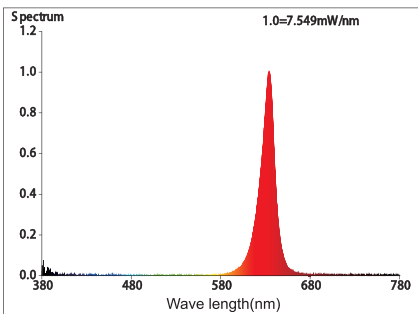
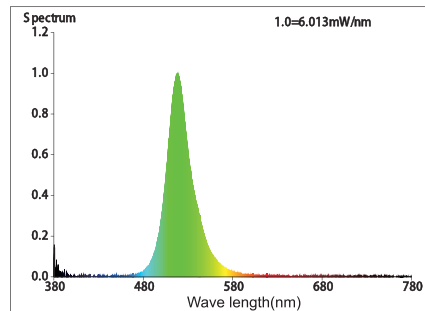
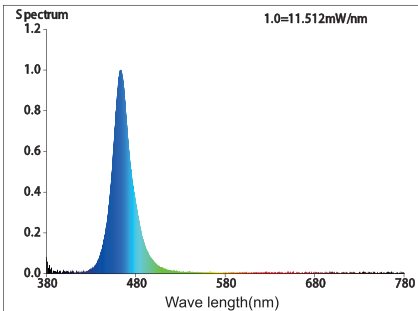
Max 5pcs

Gross Weight

17.63 lbs ( 8 kg )

44.09 lbs ( 20 kg )

### Testing



1. Please note it is under normal range if there is 20-30% yellowing of PVC housing material when the product is used under direct sunlight or long-term high temperature & wet environment in 3 years.
2. About the tolerance range of optical parameters (luminance, CCT, Watt, RA) for all product, the volume is plus and minus 10% fluctuation referring to IEC Standard.
3. It's normal for the tolerance range in total length, it occurs from the different production technology, environmental temperature and installation. the volume would be 0.1-5M±7mm, 5.1-10M±15mm, 10.1-20M±30mm.

### Loading Chart

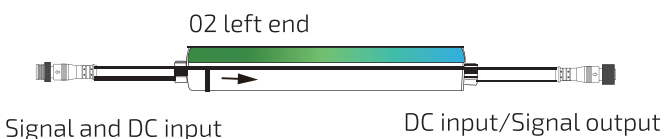
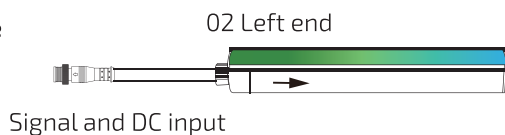
#### Power supply

| Rated power | 35W  | 60W  | 75W | 80W  | 100W | 120W | 150W | 185W  | 240W  | 320W |
|-------------|------|------|-----|------|------|------|------|-------|-------|------|
| 12W         | 2m   | 4m   | 5m  | 6m   | 7.5m | 8m   | 10m  | 12.3m | 16m   | 20m  |
| 15W         | 1.5m | 3m   | 4m  | 4.3m | 5m   | 6m   | 6.5m | 9.5m  | 12.5m | 17m  |
| 18W         | 1.5m | 2.5m | 3m  | 3.5m | 4m   | 5m   | 6m   | 8m    | 10.5m | 14m  |

#### Single Feed

#### Double Feed

#### Lead Type



Note: These are the max recommended run lengths based on power supply, the signal transfer from the left end.  
For example: It is recommended to use one 80W power supply for a single-feed run of 6m at 12W/m.

### Recommendation of extension wire

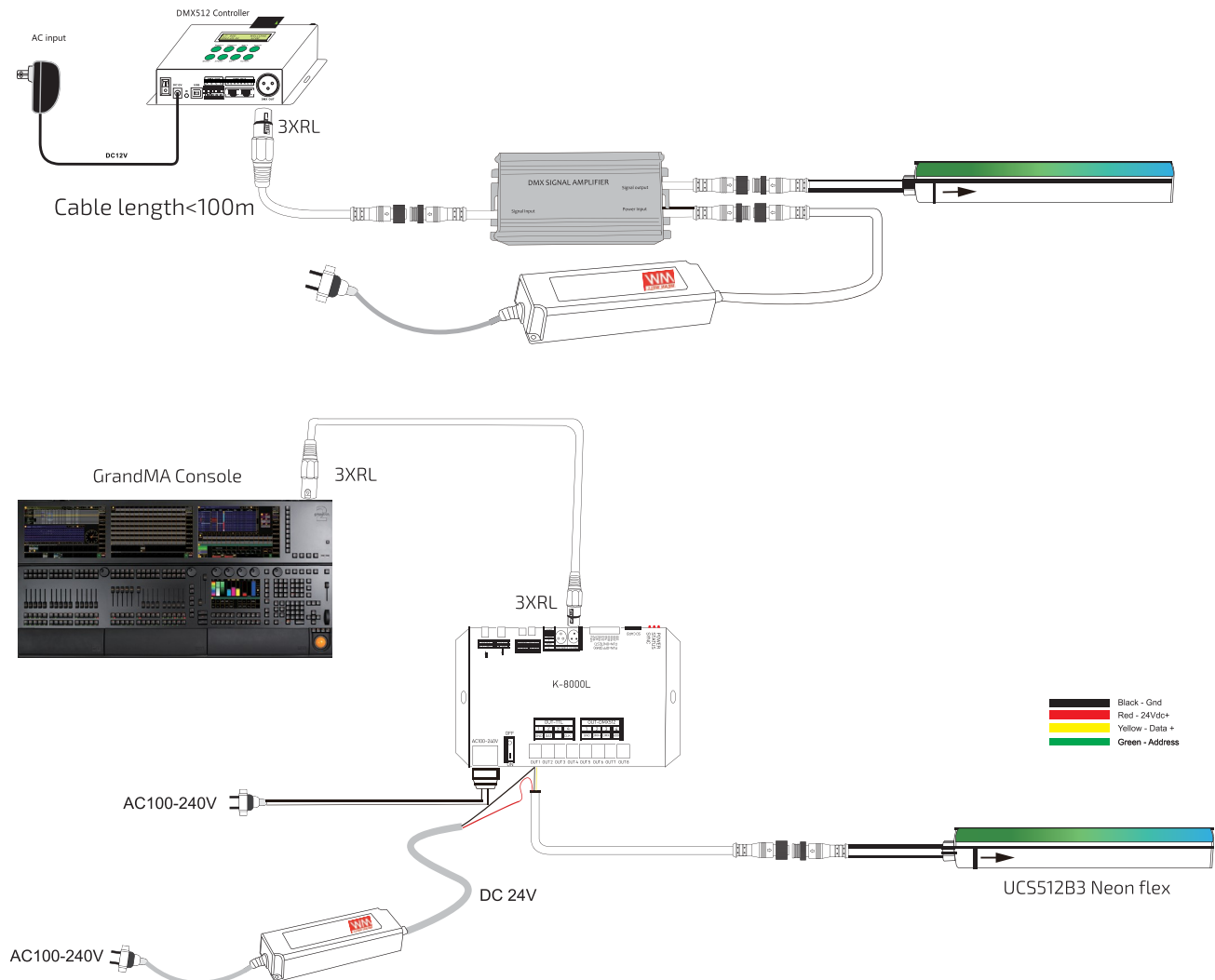
#### Maximum extension wire length according to Light power

| Watts of light | 22AWG<br>0.34mm <sup>2</sup> | 20AWG<br>0.53mm <sup>2</sup> | 18AWG<br>0.82mm <sup>2</sup> | 17AWG<br>1.04mm <sup>2</sup> | 16AWG<br>1.38mm <sup>2</sup> | 14AWG<br>2.07mm <sup>2</sup> | 12AWG<br>3.29mm <sup>2</sup> | 10AWG<br>5.62mm <sup>2</sup> |
|----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 10W            | 36m                          | 60m                          | 100m                         | 120m                         | 140m                         | 240m                         | 400m                         | 600m                         |
| 20W            | 18m                          | 30m                          | 50m                          | 60m                          | 70m                          | 120m                         | 200m                         | 300m                         |
| 30W            | 12m                          | 20m                          | 30m                          | 38m                          | 45m                          | 80m                          | 130m                         | 200m                         |
| 40W            | 8m                           | 15m                          | 22m                          | 28m                          | 35m                          | 60m                          | 95m                          | 140m                         |
| 50W            | 6m                           | 12m                          | 18m                          | 22m                          | 28m                          | 48m                          | 75m                          | 105m                         |
| 60W            | 5m                           | 10m                          | 15m                          | 18m                          | 22m                          | 36m                          | 60m                          | 88m                          |
| 70W            | /                            | 8m                           | 12m                          | 14m                          | 18m                          | 30m                          | 50m                          | 72m                          |
| 80W            | /                            | 6m                           | 10m                          | 11m                          | 14m                          | 24m                          | 40m                          | 58m                          |
| 90W            | /                            | 4m                           | 7m                           | 8m                           | 10m                          | 18m                          | 30m                          | 45m                          |
| 100W           | /                            | /                            | 5m                           | 6m                           | 7m                           | 12m                          | 22m                          | 32m                          |
| 110W           | /                            | /                            | 3m                           | 4m                           | 5m                           | 8m                           | 15m                          | 22m                          |
| 120W           | /                            | /                            | 2m                           | 2.5m                         | 3m                           | 0m                           | 8m                           | 12m                          |

#### Note:

- 1.The values doesn't include the 0.6m cable connected to the front connector.
- 2.To ensure the reliability of wire connection and avoid problem of voltage drop, the extension wire length should be smaller than the above recommended values.

### Connection Diagram



### DMX(RS485) LED Neon Connection

