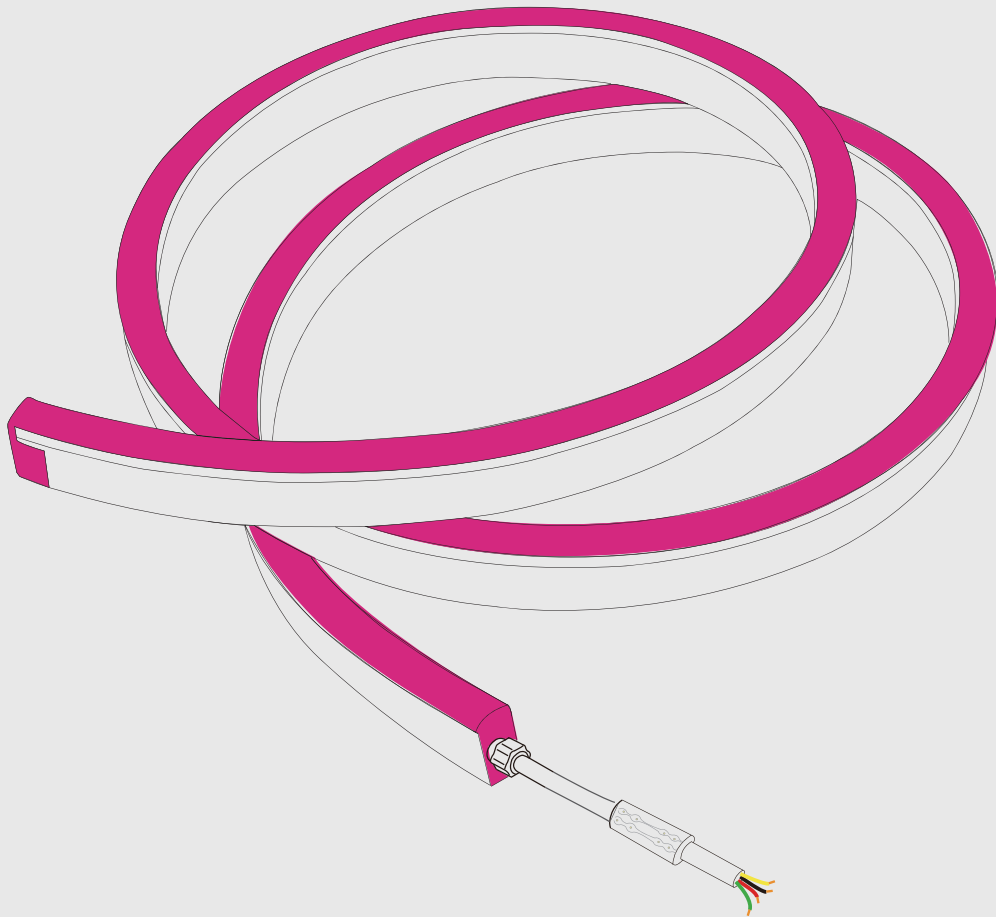




## **F15 Multi color RGB Neon Flex**

### **Specification**

### Dimension



Gross weight:  
0.4kg/m



Dimmable:  
DALI, 0-10V, DMX, Triac



Installation Temp.:  
0°C to +55°C



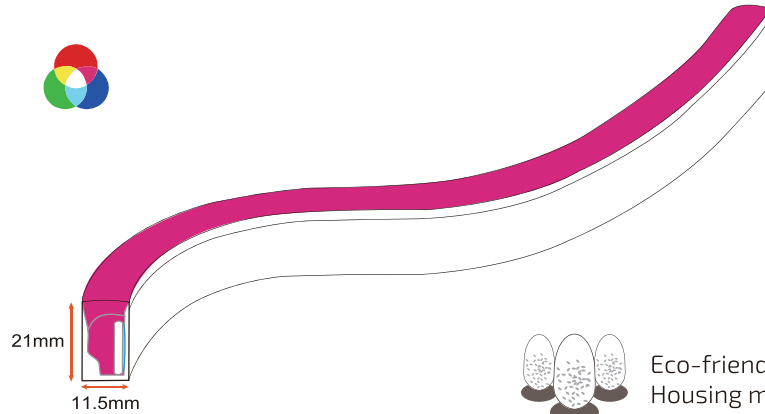
Ambient Temp.:  
-25°C to +55°C



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

60LEDs or 72LEDs, 24V or 48V optional

Dimmable with Dali, 0/1-10, DMX, PWM

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



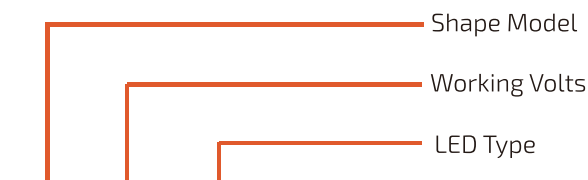
outdoor use



indoor use



### Model Encoding



F15-24V-5050-60-12W-RGB

LED Quantity

Power Consumption

Color

MJ RGB S01SM  
MJ-15-RGB-S01SM  
1 2 3 4 5

- 1 Mold injection
- 2 Multi color 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

Blank-----bare wire

S----- Side entry

D-----Direct entry

B-----Bottom entry

[For more information](#)

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

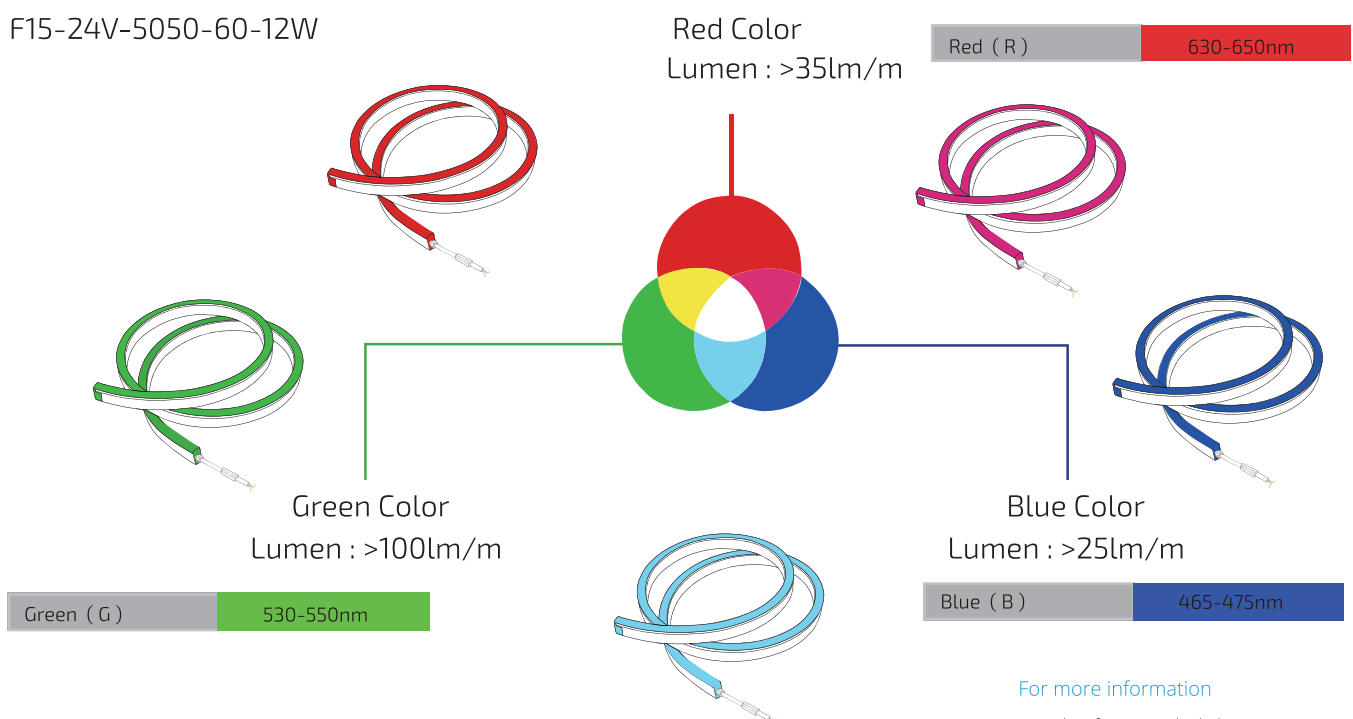
Or visit [www.neonled.sk](http://www.neonled.sk)

### Technical Specification

| Model                    | F15-24V-5050-60-RGB                           | F15-24V-5050-72-RGB | F15-48V-5050-60-RGB |
|--------------------------|-----------------------------------------------|---------------------|---------------------|
| Operating voltage        | 24V                                           | 24V                 | 48V                 |
| Power consumption        | 12W/M                                         | 13W/M               | 12W/M               |
| Working Mode             | PWM CV                                        | PWM CV              | PWM CV              |
| LED type                 | SMD5050                                       | SMD5050             | SMD5050             |
| LED Quantity             | 60 pcs/m                                      | 72 pcs/m            | 60 pcs/m            |
| Available Color          | RGB                                           | RGB                 | RGB                 |
| Min. cutting Unit        | 6 LEDs                                        | 6 LEDs              | 15 LEDs             |
| Min. cutting length      | 10cm                                          | 8.33cm              | 25cm                |
| Max. length single feed  | 10m                                           | 10m                 | 20m                 |
| Max. length double feed  | 20m                                           | 20m                 | 40m                 |
| 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 |                     |                     |

### Lumen Output

F15-24V-5050-60-12W

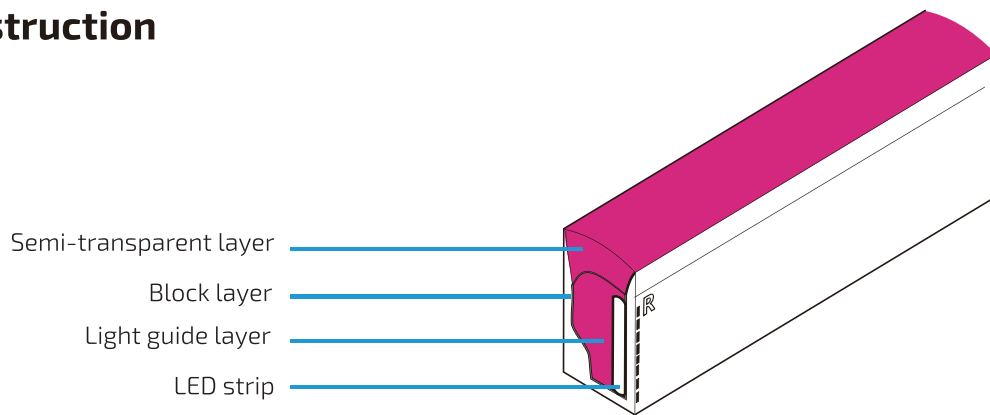


For more information

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

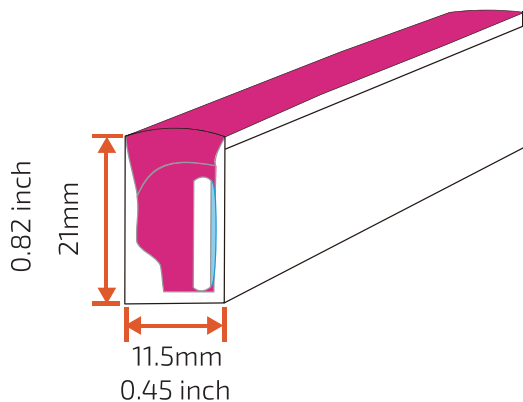
Or visit [www.neonled.sk](http://www.neonled.sk)

## Construction

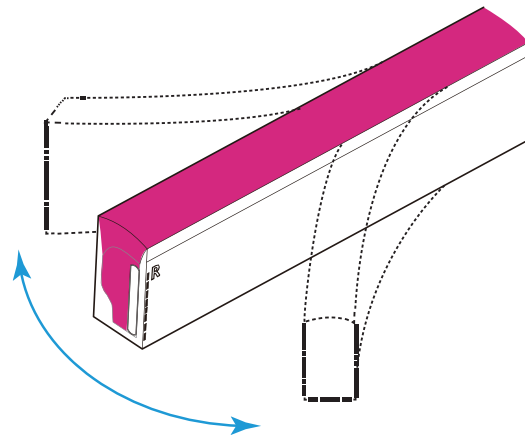


## Physical Specification

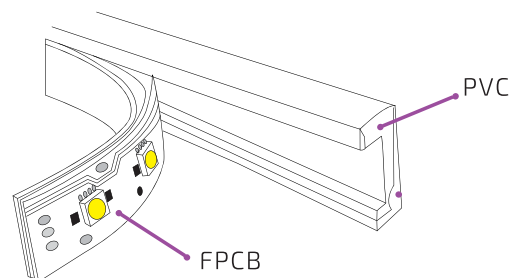
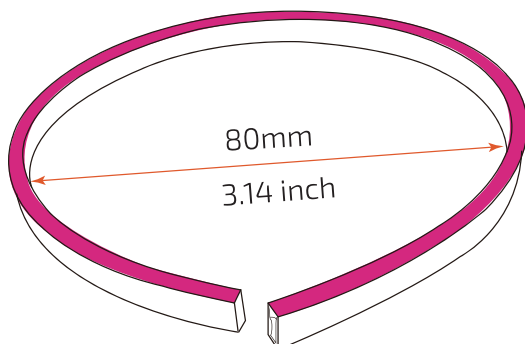
Light profile



Bending direction



Min. bending diameter



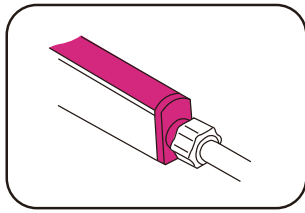
[For more information](#)

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

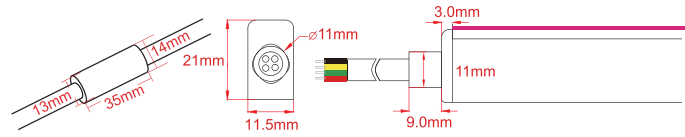
Or visit [www.neonled.sk](http://www.neonled.sk)

### Mold injection connector

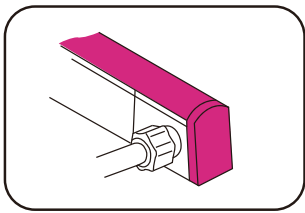
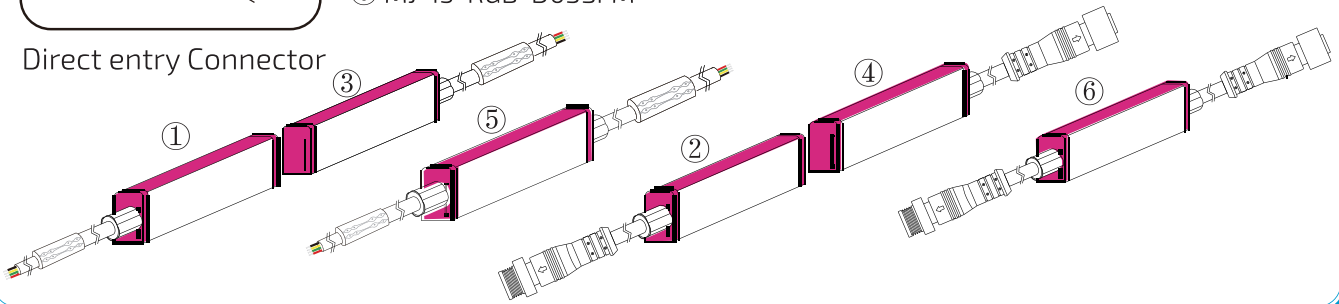
(IP68 Factory Assembly only)



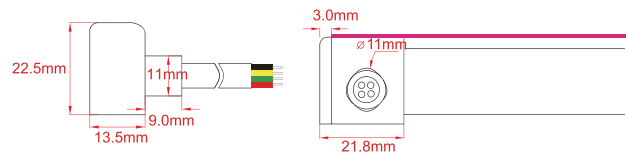
- ① MJ-15-RGB-D01
- ② MJ-15-RGB-D01SM
- ③ MJ-15-RGB-D02
- ④ MJ-15-RGB-D02SF
- ⑤ MJ-15-RGB-D03
- ⑥ MJ-15-RGB-D03SFM



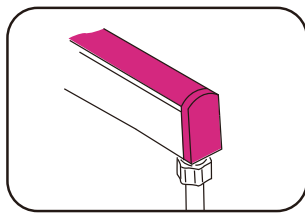
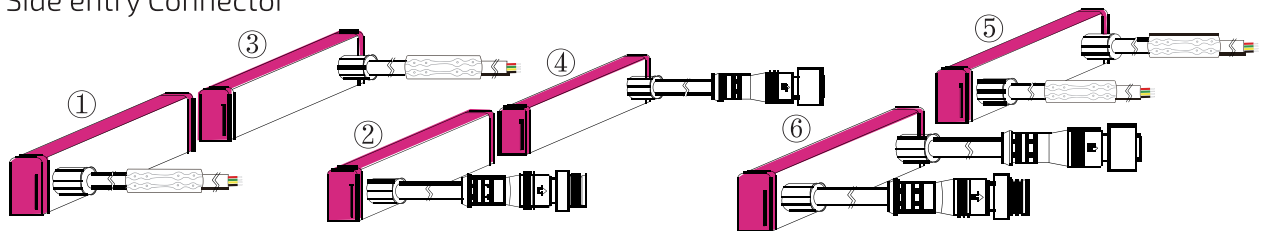
Direct entry Connector



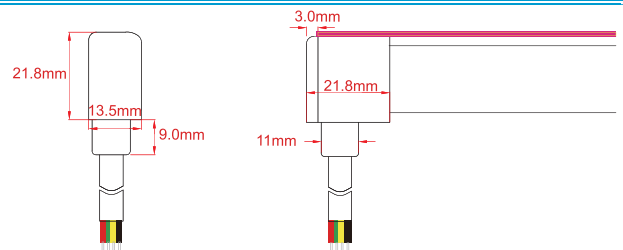
- ① MJ-15-RGB-S01
- ② MJ-15-RGB-S01SM
- ③ MJ-15-RGB-S02
- ④ MJ-15-RGB-S02SF
- ⑤ MJ-15-RGB-S03
- ⑥ MJ-15-RGB-S03SFM



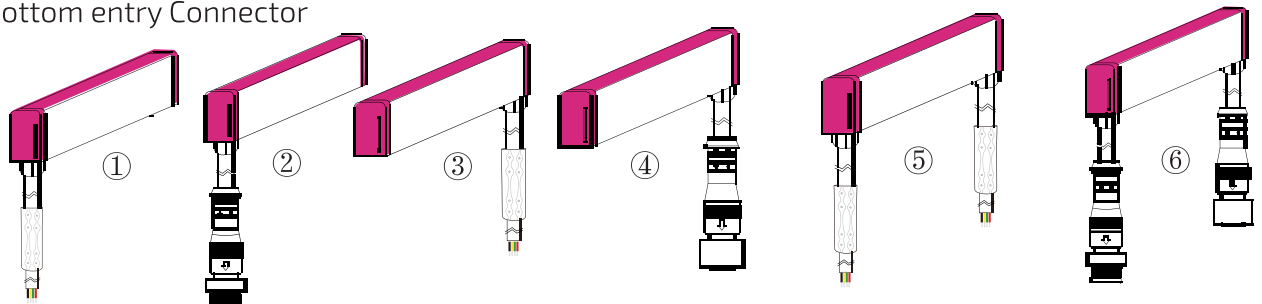
Side entry Connector



- ① MJ-15-RGB-B01
- ② MJ-15-RGB-B01SM
- ③ MJ-15-RGB-B02
- ④ MJ-15-RGB-B02SF
- ⑤ MJ-15-RGB-B03
- ⑥ MJ-15-RGB-B03SFM



Bottom entry Connector

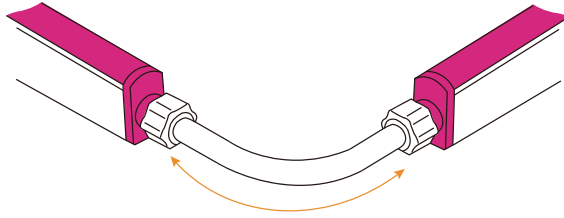


For more information

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

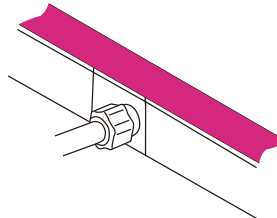
Or visit [www.neonled.sk](http://www.neonled.sk)

Mold injection Jumper



0.3m cable length

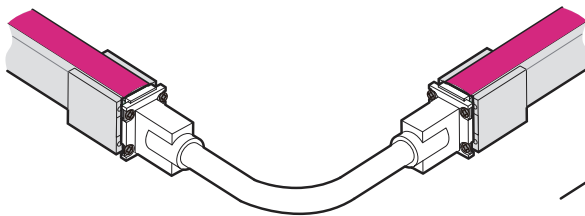
Middle injection Connector



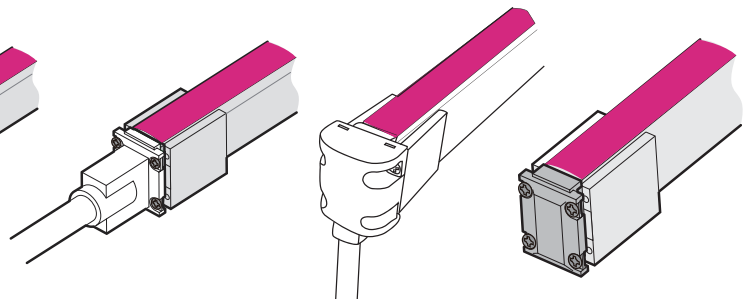
(IP68 Factory Assembly only)

DIY Screw & Snap Connector Kit (IP67 Only)

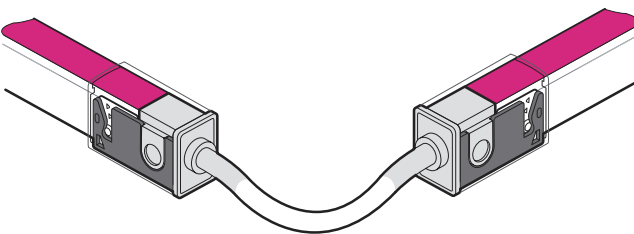
DIY screw splice connector kit



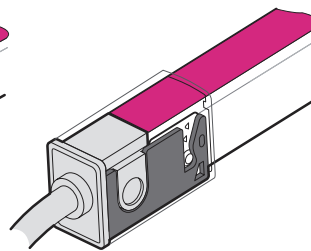
DIY screw connector & End Cap kit



DIY snap splice connector kit

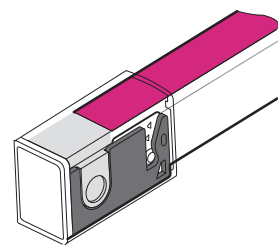


DIY snap connector kit



(IP67 Only)

DIY snap front connector



DIY snap end cap

| Type                           | Model                    |                          |
|--------------------------------|--------------------------|--------------------------|
| Middle injection Connector     | MJ-15-RGB-M01-06         |                          |
| DIY snap splice connector      | DIY-SC-Middle-15         |                          |
| DIY screw connector kit Jumper | DIY-SC-EXT-15-RGB        |                          |
| DIY screw front connector      | DIY-SC-FR-15-D-01/02-RGB | DIY-SC-FR-15-B-01/02-RGB |
| DIY screw end cap kit          | DIY-SC-END-15            | Noted:                   |
| DIY snap front connector       | DIY-SN-FR-15-D-01/02-RGB | 01- Right direction      |
| DIY screw end cap kit          | DIY-SN-END-01/02-15      | 02- Left direction       |

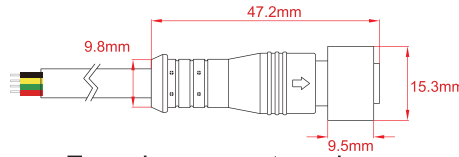
For more information

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

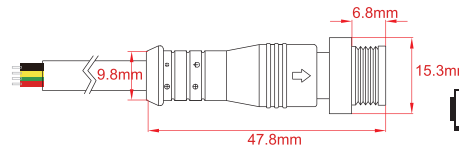
Or visit [www.neonled.sk](http://www.neonled.sk)

### Other Accessories

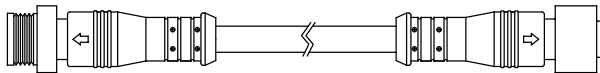
Female & Male Connector



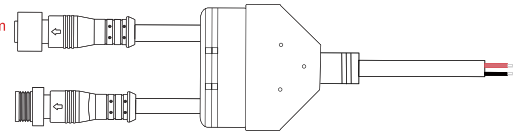
Female connector wire  
SYZ-M12-F-4C-05-W



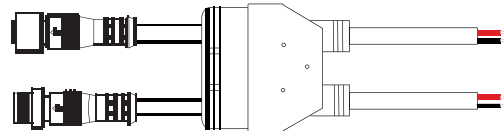
Male connector wire  
SYZ-M12-M-4C-05-W



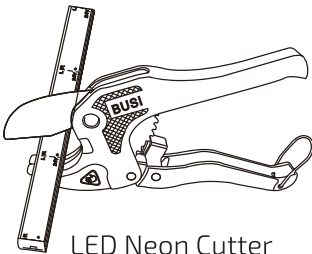
Middle power connector



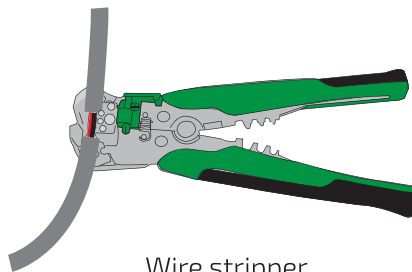
MID-CNR-RGB-1T2



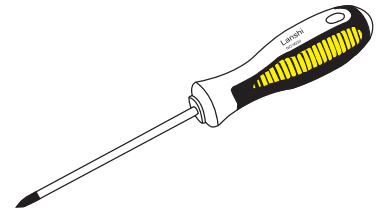
MID-CNR-RGB-2T2



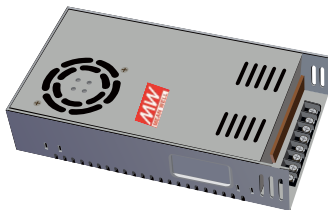
LED Neon Cutter  
ACC-TOOL-C1



Wire stripper  
ACC-TOOL-WS01



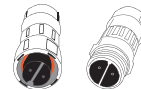
Screwdriver  
ACC-TOOL-C2



Mean Well Transformer  
Non-waterproof Series



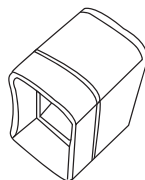
Mean Well Transformer  
Waterproof Series



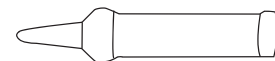
Female & male wire connector  
KJ-M12-4P-F/ KJ-M12-4P-M



Silicone Rubber  
K-5905



PVC End Cap  
DIY-PVC-END-15



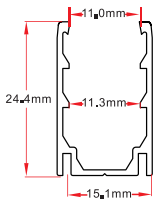
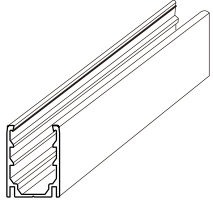
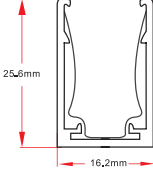
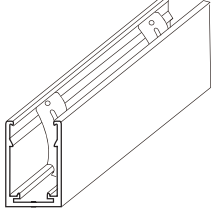
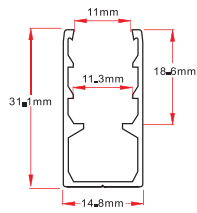
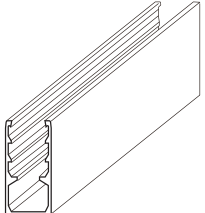
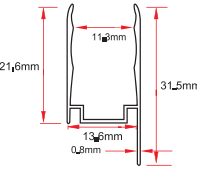
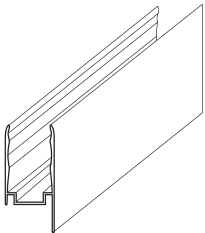
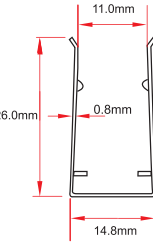
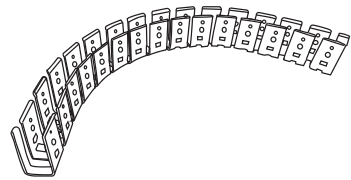
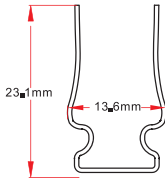
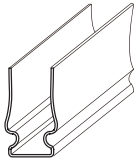
Assistant Tool  
ACC-TOOL-C3

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                  |  |  |

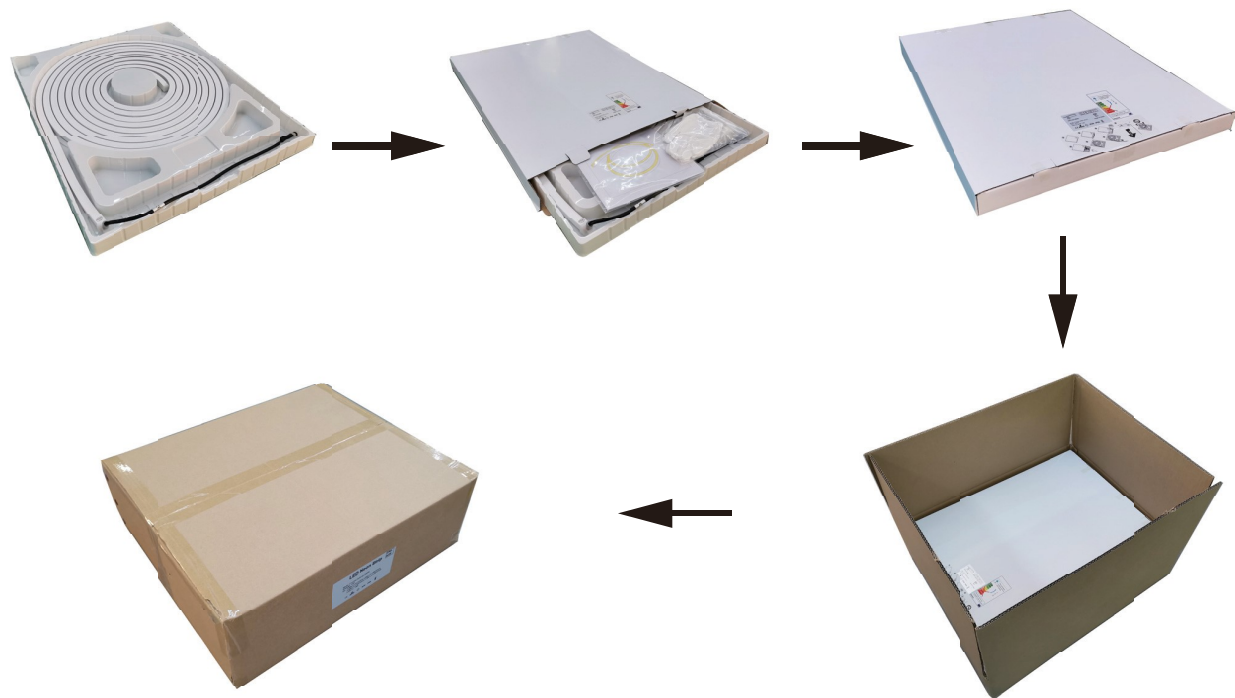
## Packing

Standard: Carton ( Paper reel inside)



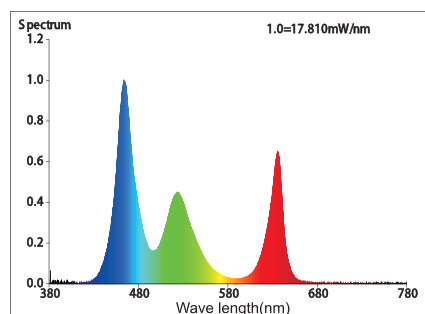
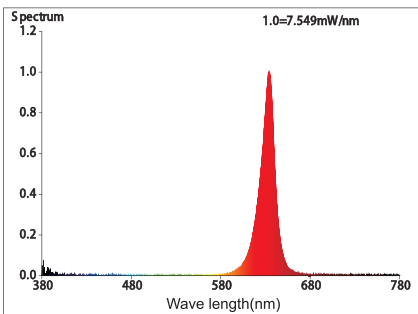
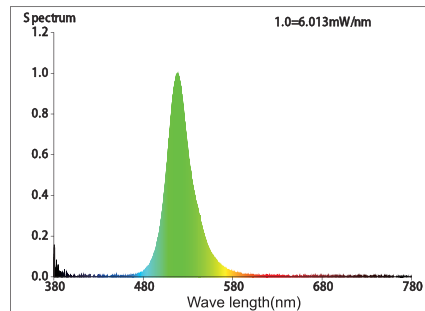
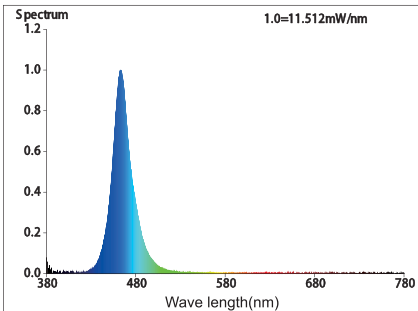
| Fixture Length | Paper Reel                | Carton Dimension | Gross Weight        |
|----------------|---------------------------|------------------|---------------------|
| 787.4in(20m)   | D12.99*H6.18in(33*15.7cm) | 33*33*18cm       | 17.63 lbs ( 8 kg )  |
| 787.4in(30m)   | D12.99*H6.18in(33*15.7cm) | 33*33*18cm       | 26.45 lbs ( 12 kg ) |

Custom: Carton ( White box+plastic plate inside)



| Fixture Length | White box Dimension            | Carton Dimension | White box Quantity | Gross Weight        |
|----------------|--------------------------------|------------------|--------------------|---------------------|
| 196.85in(5m)   | 13.78*1.65*18.11in(38*3*38 cm) | 41*41*16cm       | Max 4pcs           | 17.63 lbs ( 8 kg )  |
| 393.7in(10m)   | 21.6*1.38*18.9in(55*3.5*48cm)  | 57*49*19cm       | Max 5pcs           | 44.09 lbs ( 20 kg ) |

### Testing

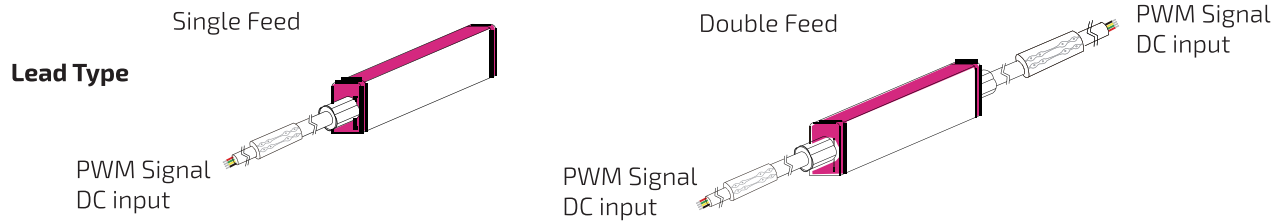


1. Please note it is under normal range if there is 20-30% yellowing of PVC housing material when the product is used under direct sunlight or long-term high temperature & wet environment in 3 years.
2. About the tolerance range of optical parameters (luminance, CCT, Watt, RA) for all product, the volume 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 $\pm$ 7mm, 5.1-10M $\pm$ 15mm, 10.1-20M $\pm$ 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  |
| 13W         | 2m  | 3.5m | 4.5m | 4.8m | 6m   | 7m   | 9m   | 10m   | 13.5m | 19m  |



Note: These are the max recommended run lengths based on power supply  
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

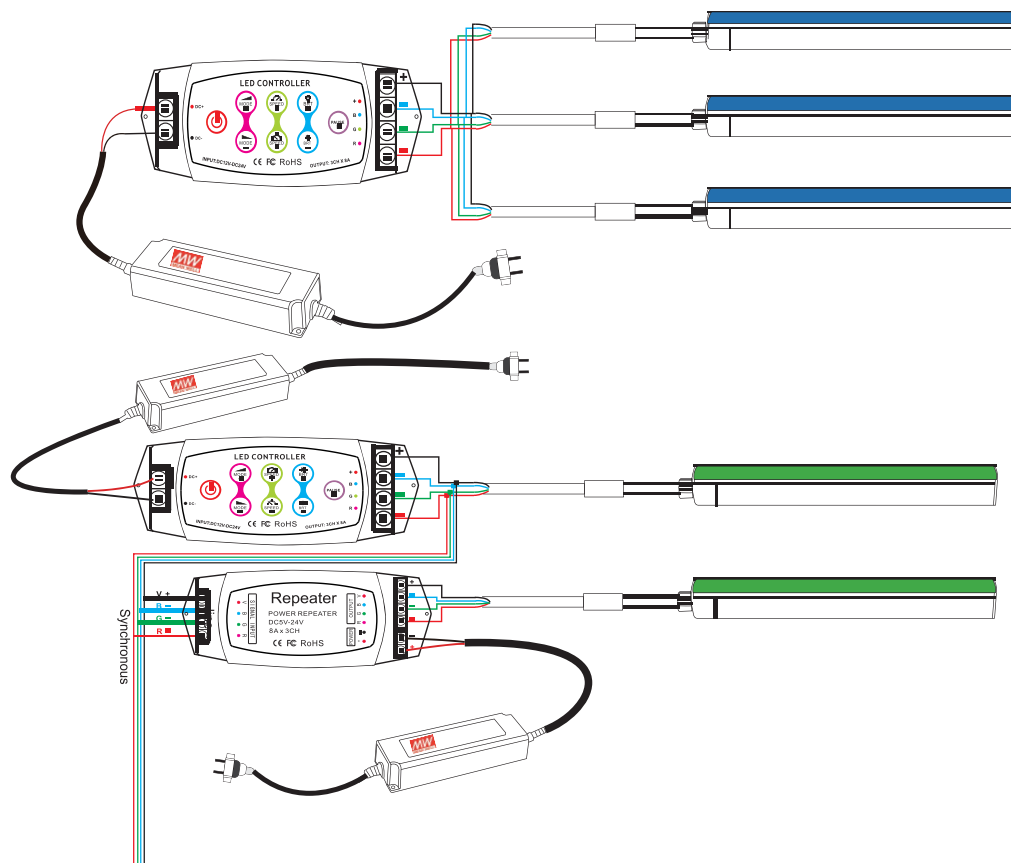
| Watts of light | 22AWG<br>0.34mm <sup>2</sup> | 20AWG<br>0.53mm <sup>2</sup> | 18AWG<br>0.82mm <sup>2</sup> | 17AWG<br>1.04mm <sup>2</sup> | 16AWG<br>1.38mm <sup>2</sup> | 14AWG<br>2.07mm <sup>2</sup> | 12AWG<br>3.29mm <sup>2</sup> | 10AWG<br>5.62mm <sup>2</sup> |
|----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 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:

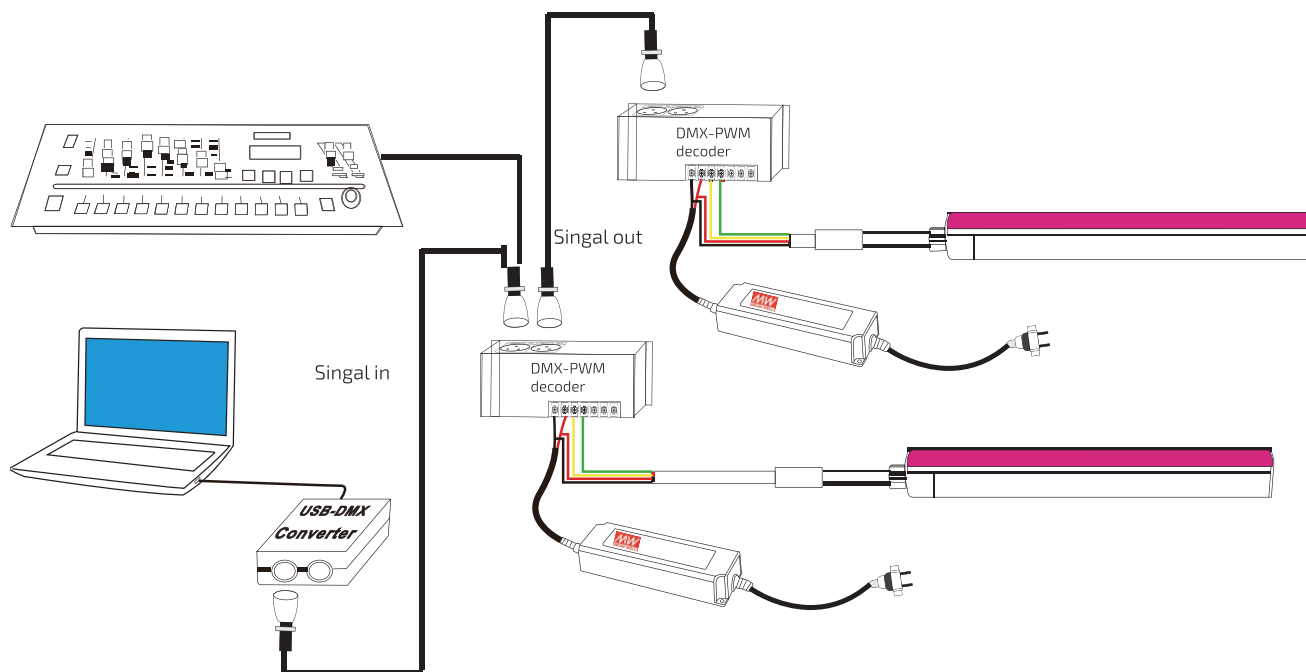
- 1.The values doesn't include the 0.6m cable connected to the front connector.
- 2.To ensure the reliability of wire connection and avoid problem of voltage drop, the extension wire length should be smaller than the above recommended values.

## Connection Diagram

Connect with CTR-361 PWM controller



Connect with DMX512 controller or DMX Console



For more information

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

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