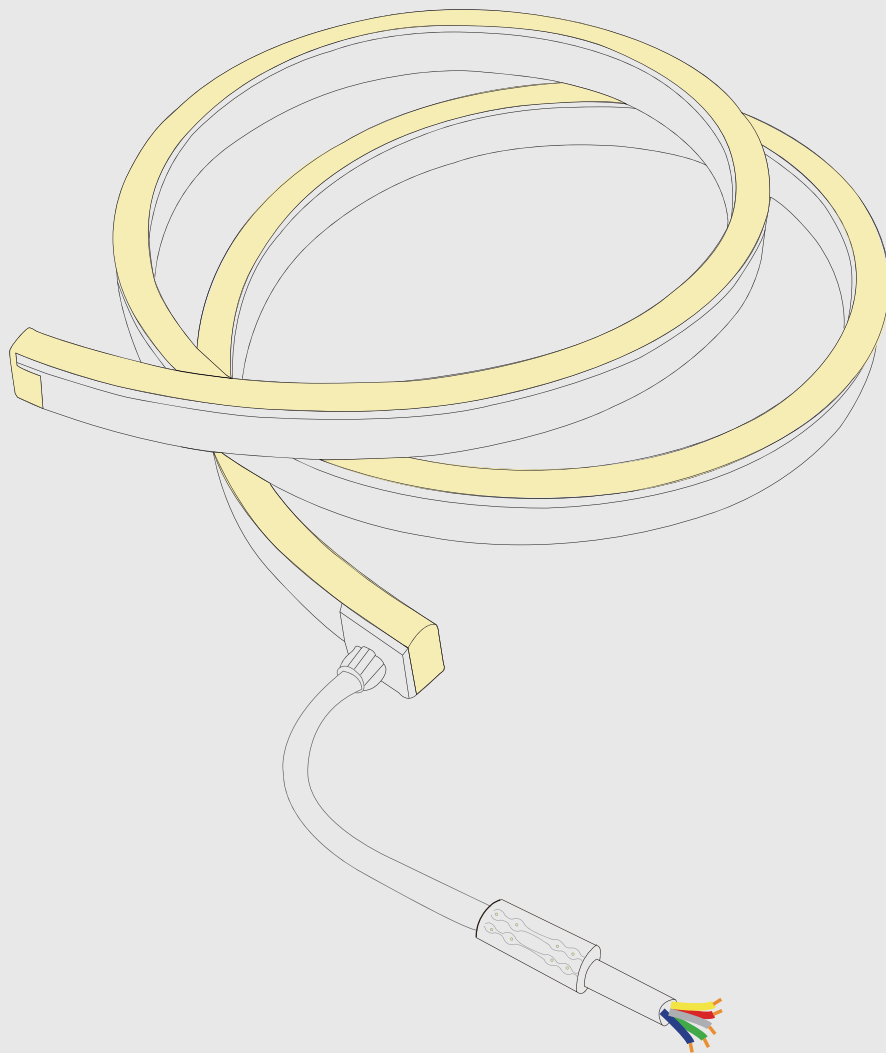


**NEONLED**



## **F15 Multi color RGBW 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

White color 2200K/3000K/4000K optional

Dimmable with Dali, 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



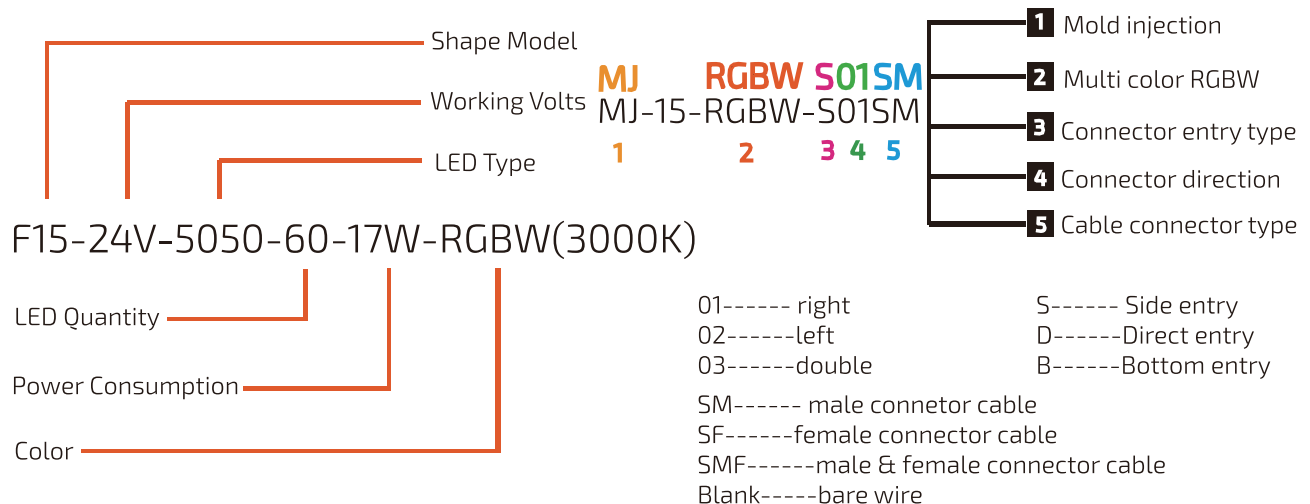
outdoor use



indoor use



### Model Encoding



## Technical Specification

| Model                    | F15-24V-5050-60-RGBW                          | F15-24V-5050-72-RGBW    | F15-12V-5050-60-RGBW    |
|--------------------------|-----------------------------------------------|-------------------------|-------------------------|
| Operating voltage        | 24V                                           | 24V                     | 24V                     |
| Power consumption        | 17W/M                                         | 17W/M                   | 17W/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          | RGBW(2200K/3000K/4000K)                       | RGBW(2200K/3000K/4000K) | RGBW(2200K/3000K/4000K) |
| Min. cutting Unit        | 6 LEDs                                        | 6 LEDs                  | 3 LEDs                  |
| Min. cutting length      | 10cm                                          | 8.33cm                  | 5cm                     |
| Max. length single feed  | 8m                                            | 8m                      | 5m                      |
| Max. length double feed  | 16m                                           | 16m                     | 10m                     |
| 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 |                         |                         |

## Wave length

|             |            |
|-------------|------------|
| Red ( R )   | 630-650nm  |
| Green ( G ) | 530-550nm  |
| Blue ( B )  | 465-475nm  |
| 3000K       | 3045± 175K |

## Lumen Output

F15-24V-5050-60-RGBW(3000K)

Red Color

Lumen : >35lm/m

3000K

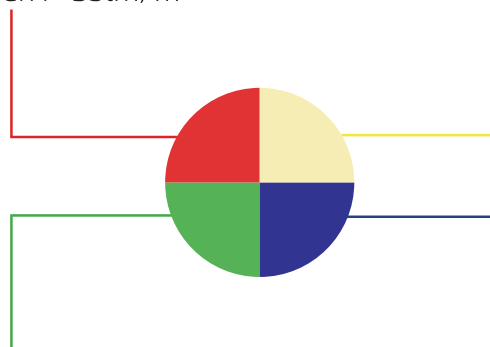
Lumen : >35lm/m

Green Color

Lumen : >100lm/m

Blue Color

Lumen : >25lm/m

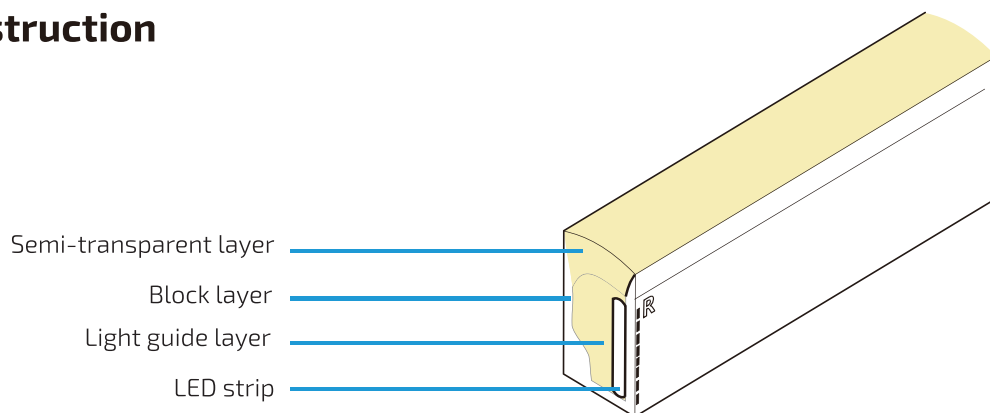


[For more information](#)

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

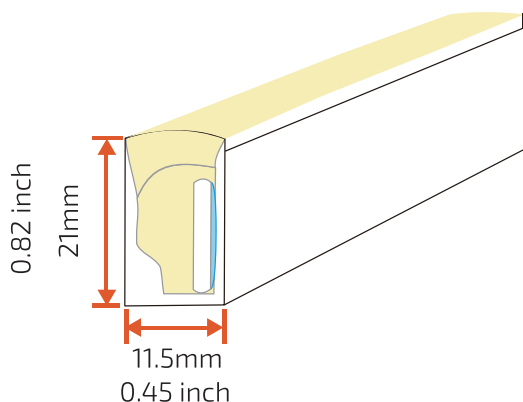
Or visit [www.neonled.sk](http://www.neonled.sk)

### Construction

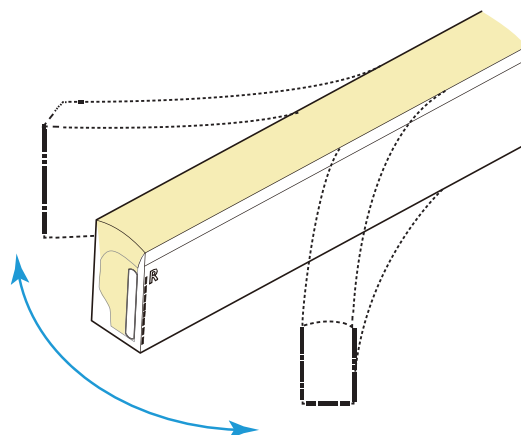


### Physical Specification

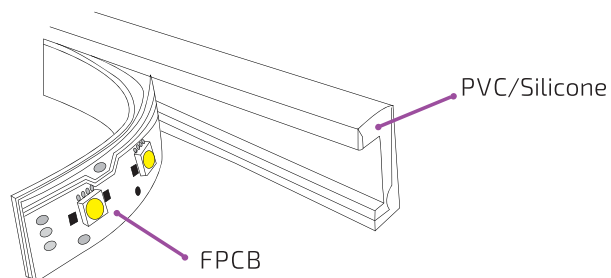
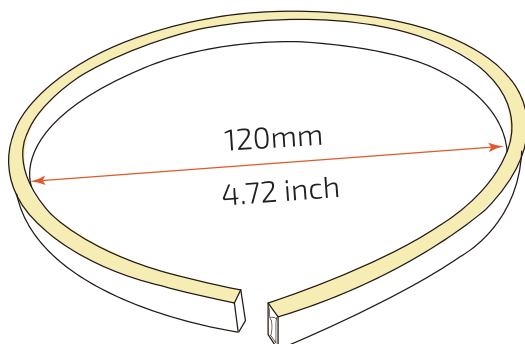
Light profile



Bending direction



Min. bending diameter



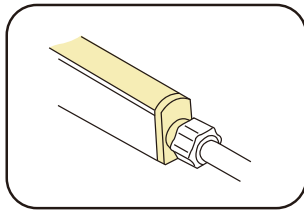
[For more information](#)

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

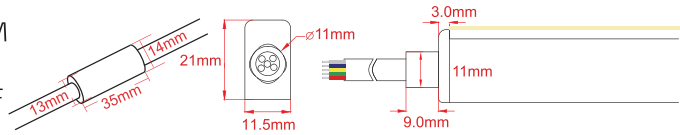
Or visit [www.neonled.sk](http://www.neonled.sk)

### Mould injection connector

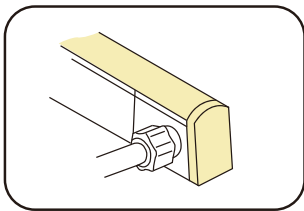
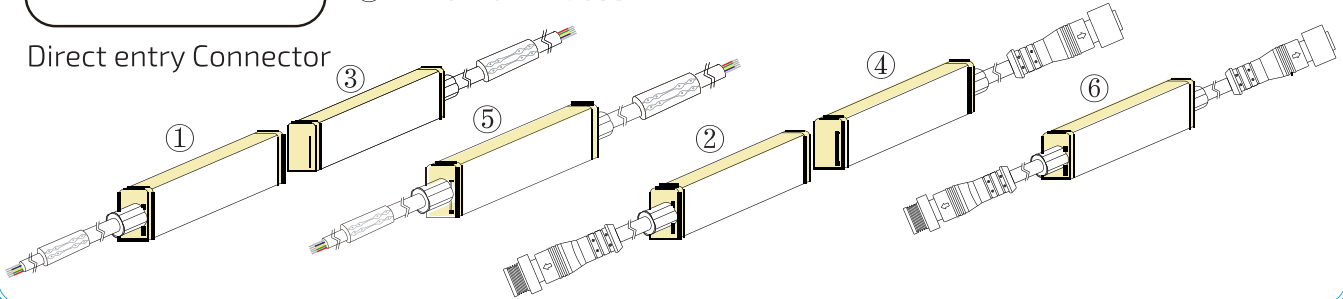
(IP68 Factory Assembly only)



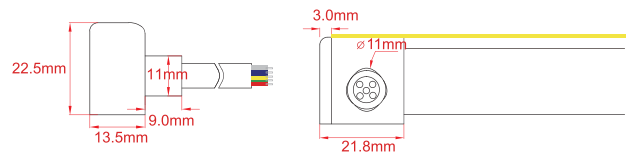
- ① MJ-15-RGBW-D01
- ② MJ-15-RGBW-D01SM
- ③ MJ-15-RGBW-D02
- ④ MJ-15-RGBW-D02SF
- ⑤ MJ-15-RGBW-D03
- ⑥ MJ-15-RGBW-D03SFM



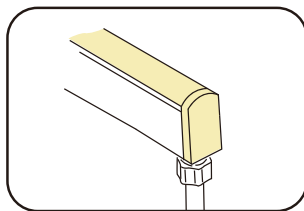
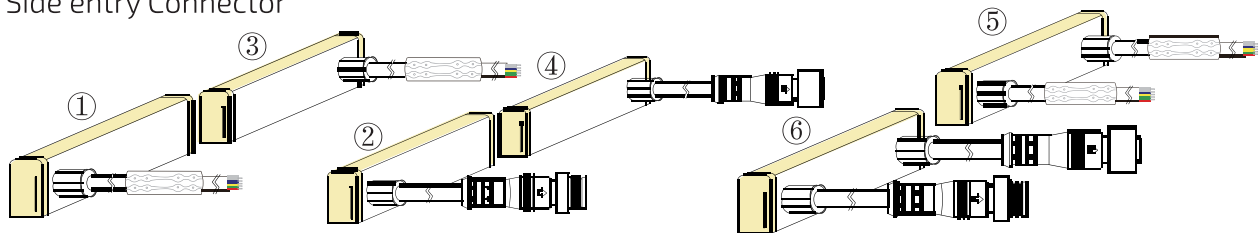
Direct entry Connector



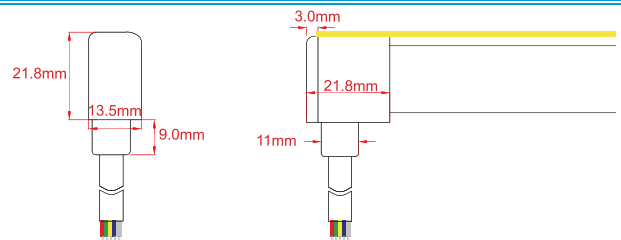
- ① MJ-15-RGBW-S01
- ② MJ-15-RGBW-S01SM
- ③ MJ-15-RGBW-S02
- ④ MJ-15-RGBW-S02SF
- ⑤ MJ-15-RGBW-S03
- ⑥ MJ-15-RGBW-S03SFM



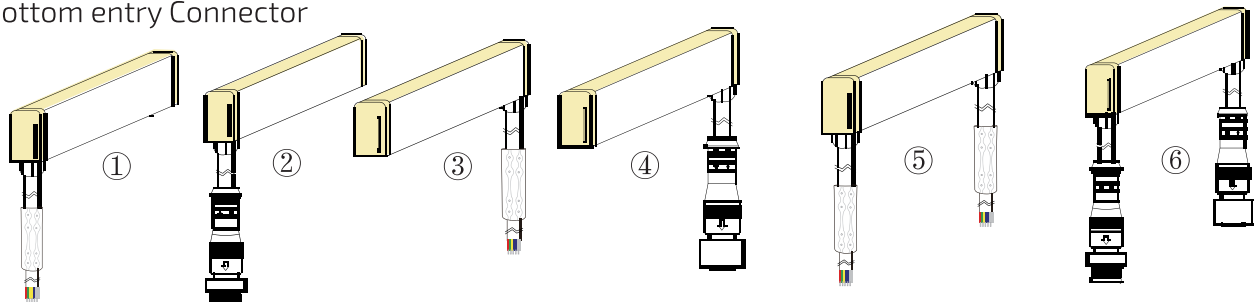
Side entry Connector



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



Bottom entry Connector

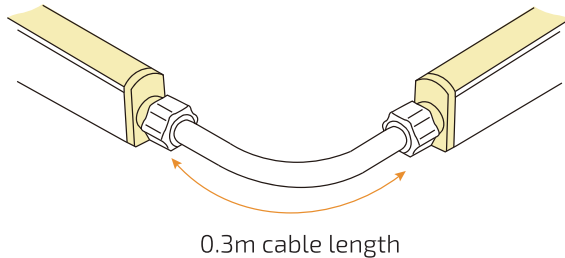


For more information

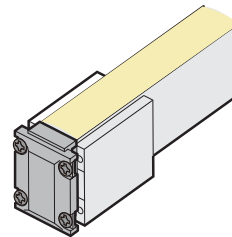
Email: [info@neonled.sk](mailto:info@neonled.sk)

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

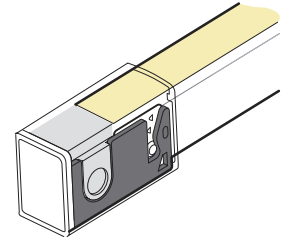
Mould injection Jumper  
(IP68 Factory Assembly only)



DIY Screw & Snap End Cap Kit (IP67 Only)



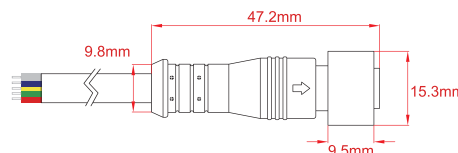
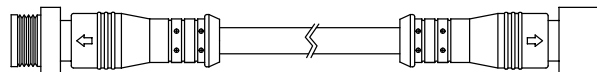
DIY screw end cap



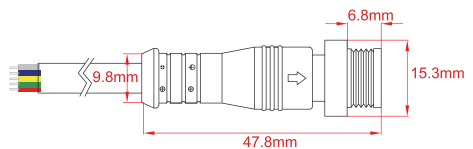
DIY snap end cap

### Other Accessories

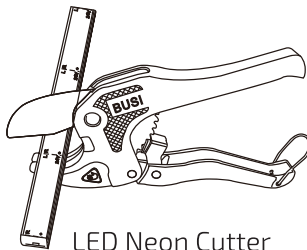
Female & Male Connector



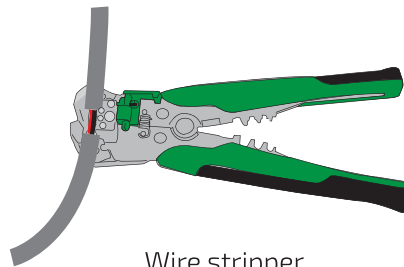
Female connector wire  
SYZ-M12-F-5C-05-W



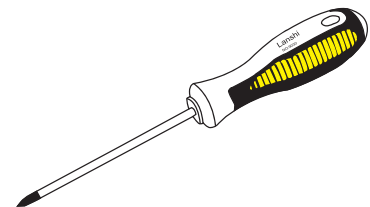
Male connector wire  
SYZ-M12-M-5C-05-W



LED Neon Cutter  
ACC-TOOL-C1



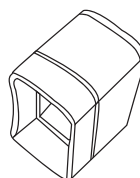
Wire stripper  
ACC-TOOL-WS01



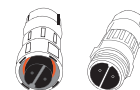
Screwdriver  
ACC-TOOL-C2



Silicone Rubber  
K-5905



PVC End Cap  
DIY-PVC-END-15



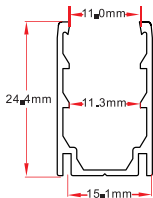
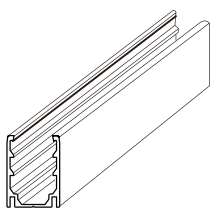
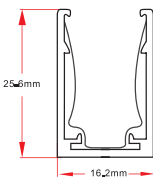
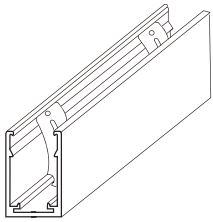
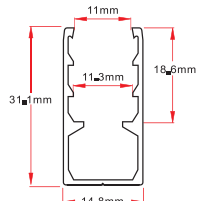
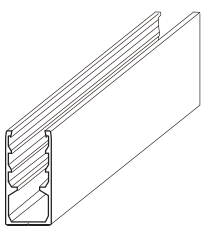
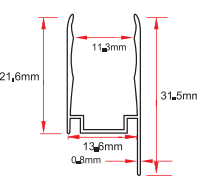
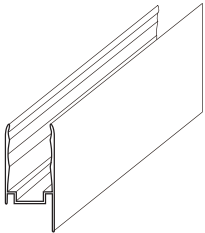
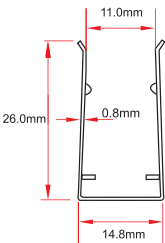
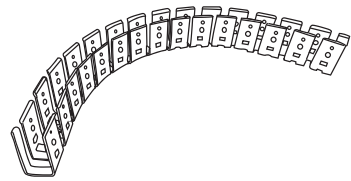
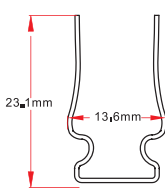
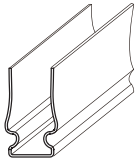
Female & male wire connector  
KJ-M12-4P-F/ KJ-M12-4P-M

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                  |  |  |

For more information

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

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



# F15 Multi color RGBW LED neon flex

## 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

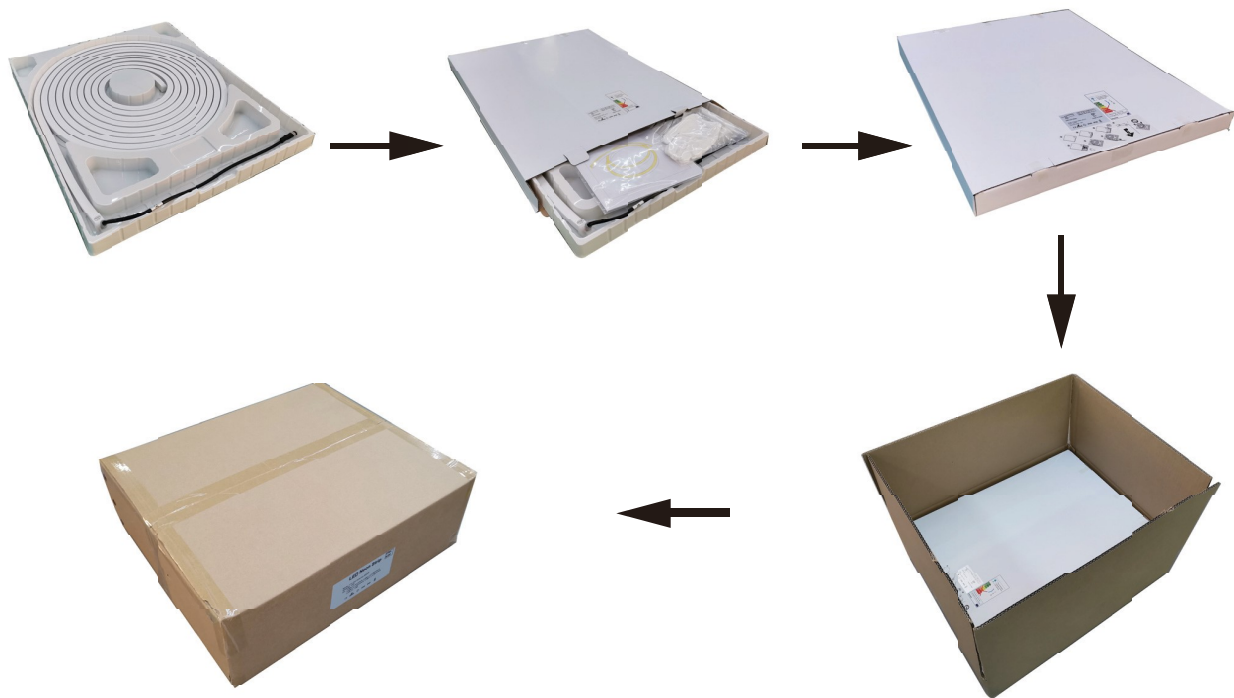
33\*33\*18cm

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 )

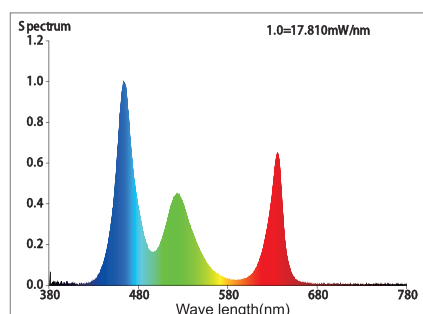
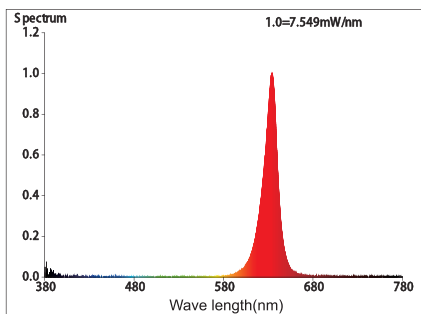
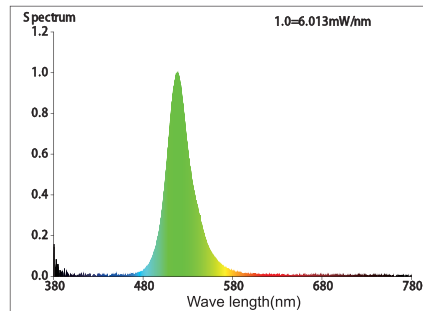
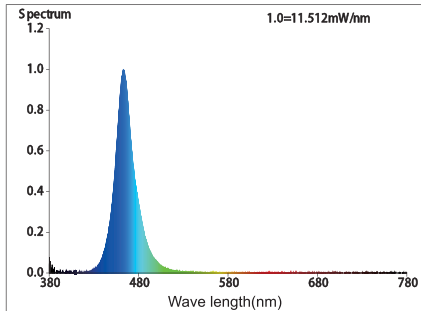
44.09 lbs ( 20 kg )

[For more information](#)

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

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

### 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

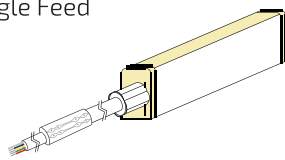
### Power supply

| Rated power | 35W  | 60W  | 75W  | 80W  | 100W | 120W | 150W | 185W | 240W | 320W |
|-------------|------|------|------|------|------|------|------|------|------|------|
| 17W         | 1.5m | 2.5m | 3.5m | 3.8m | 4.5m | 5.5m | 7m   | 8.5m | 10m  | /    |

### Lead Type

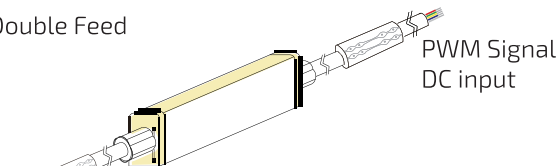
Single Feed

PWM Signal  
DC input



Double Feed

PWM Signal  
DC input



PWM Signal  
DC input

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 3.8m at 17W/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:

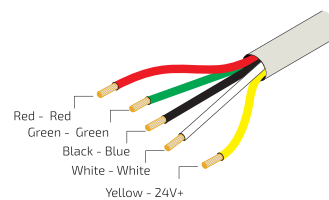
- 1.The values doesn't include the 0.6m cable connected to the front connector.
- 2.To ensure the reliability of wire connection and avoid problem of voltage drop, the extension wire length should be smaller than the above recommended values.

[For more information](#)

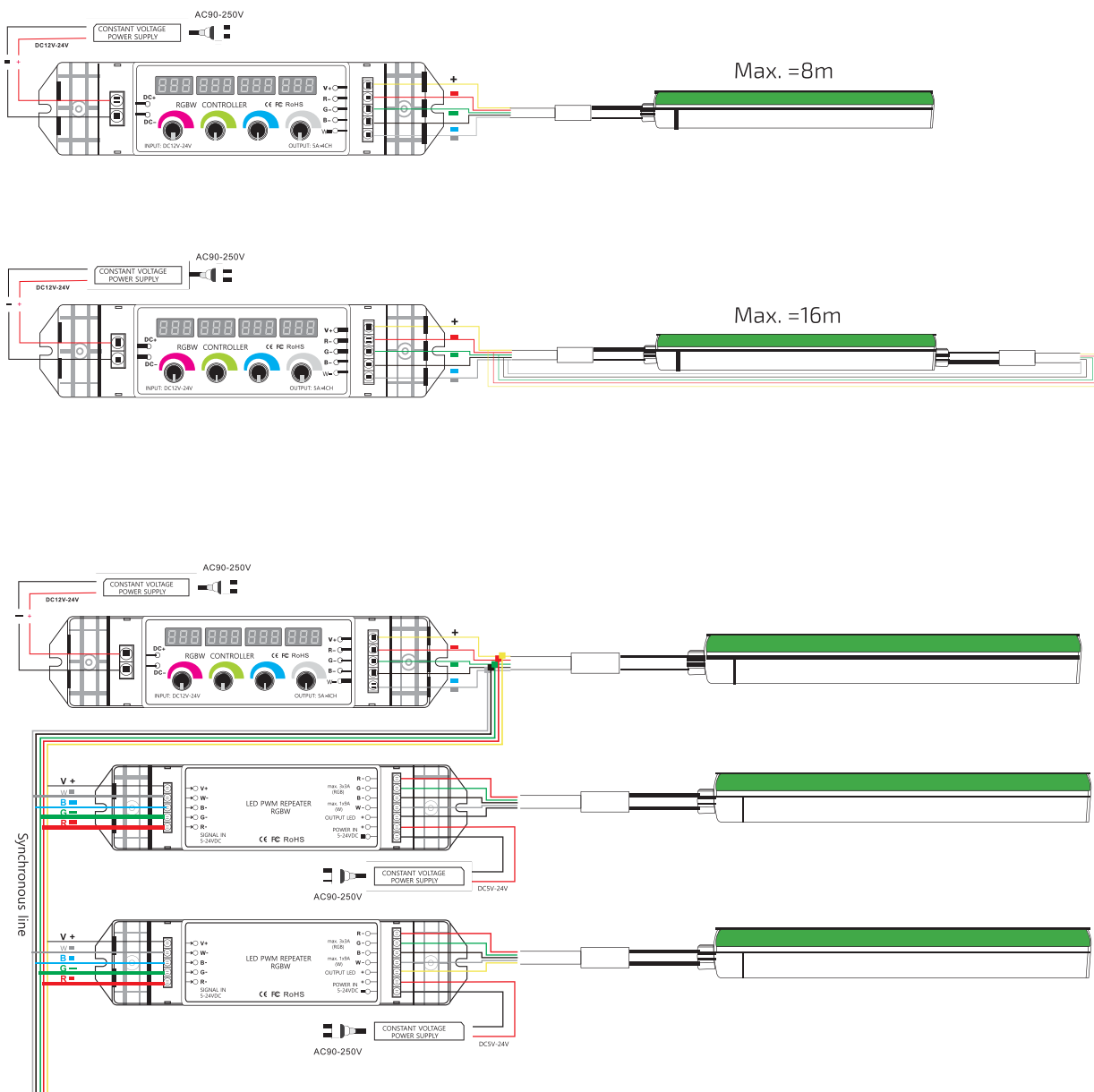
Email: [info@neonled.sk](mailto:info@neonled.sk)

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

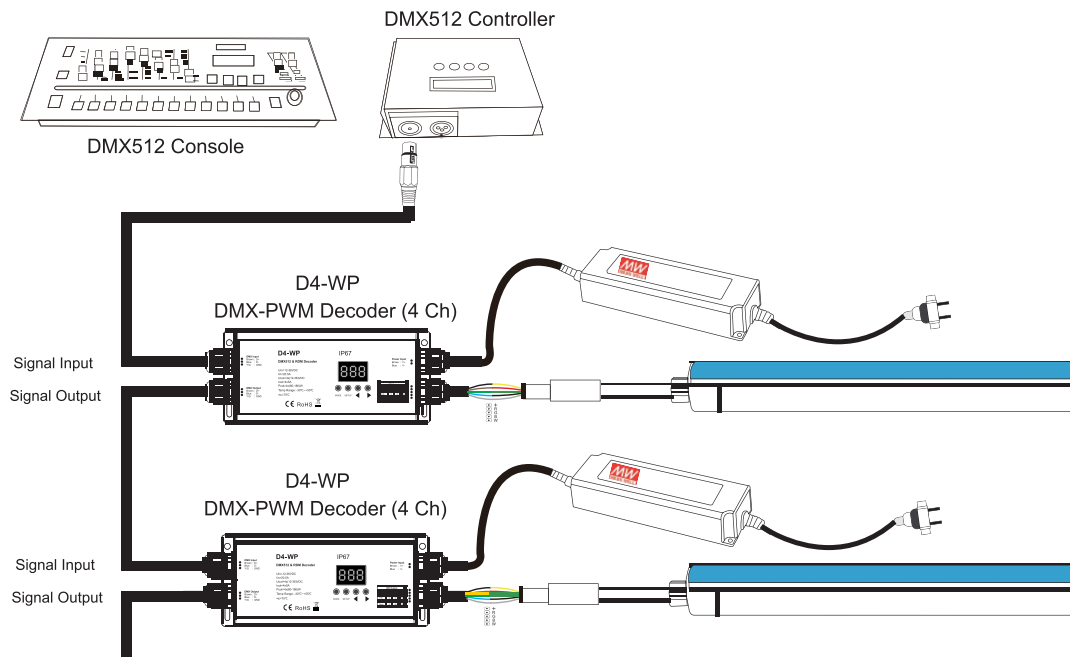
## Connection diagram



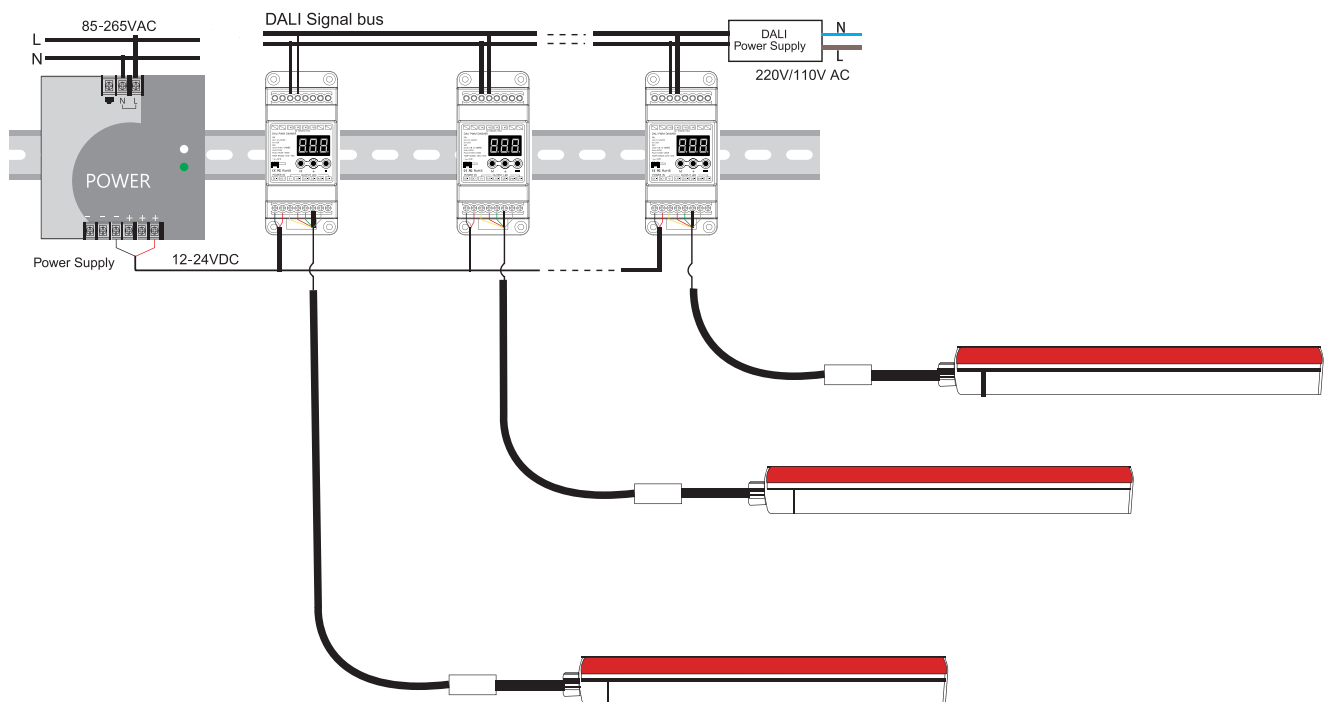
Connection with BC-354RF PWM Controller & BC-964 RGBW Repeater



## Connection with DMX512 console or DMX512 Controller



## Connection with DALI control Systems



For more information

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