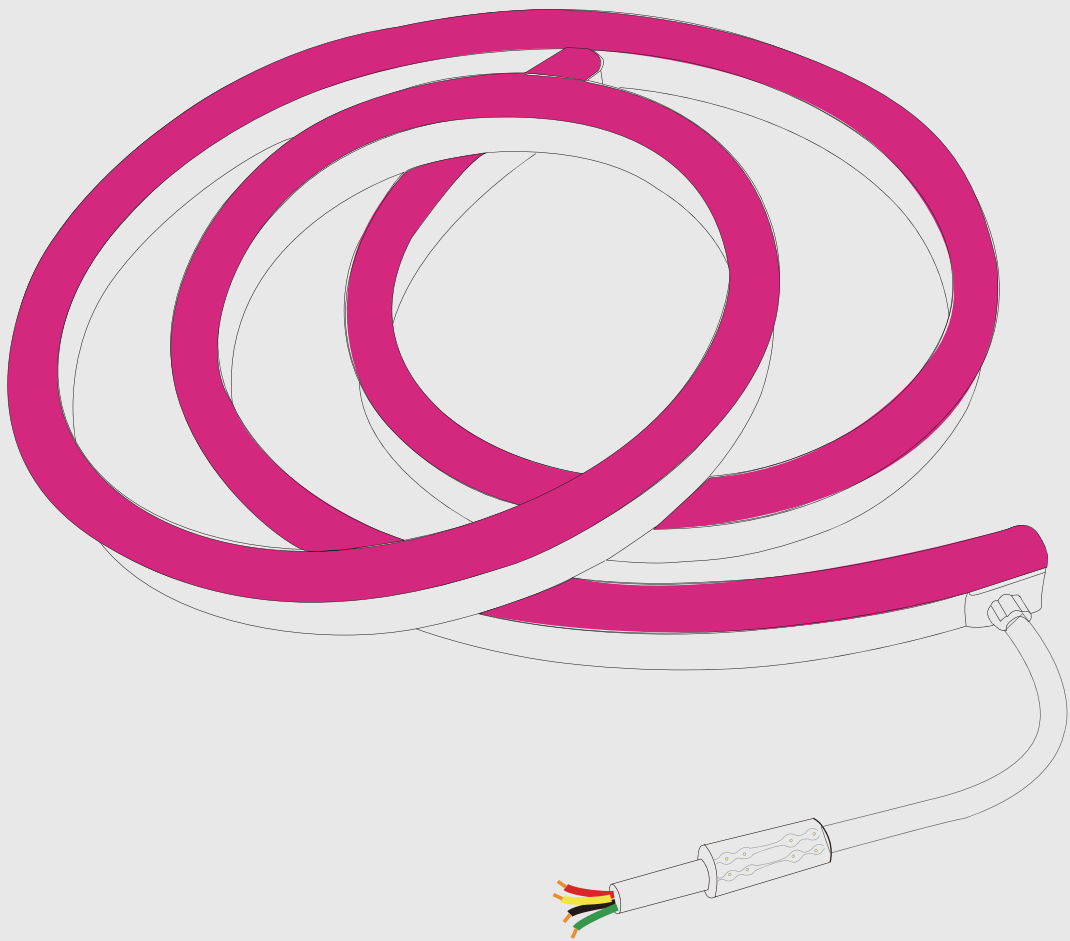








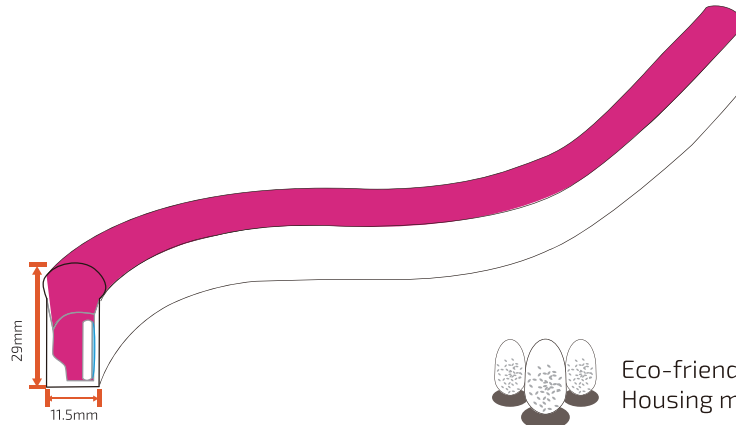
**NEONLED**



## **F21 Multi Color RGB Neon Flex Specification**

### Dimension

-  Gross weight: 0.52kg/m
-  Dimmable: DALI, PWM, DMX
-  Installation Temp.: 0°C to +55°C
-  Ambient Temp.: -25°C to +55°C
-  Min. Bending: 120mm
-  Beam Angle: 270 degree

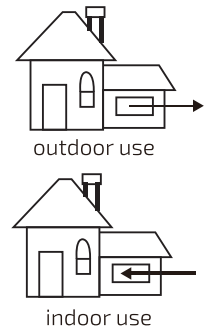


### Features

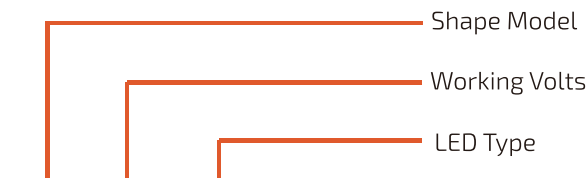
- Uniform and even light output
- Dome surface with 270 degree beam angle
- 60 LEDs /72LEDs, 24V or 48V optional
- Dimmable with Dali, DMX,PWM
- Full encapsulated with IP68 Level
- High Reliability
- 3 or 5 Years warranty

### Applications

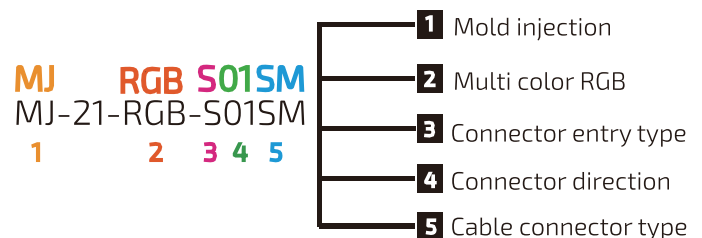
- Building facade, outline
- Cove lighting
- Sign and advertising lighting
- Linear lighting
- Additional lighting
- Decorative lighting



### Model Encoding



F21-24V-5050-60-12W-RGB



- 01----- right
- 02-----left
- 03-----double
- SM----- male connetor 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

Or visit www.neonled.sk

## Technical Specification

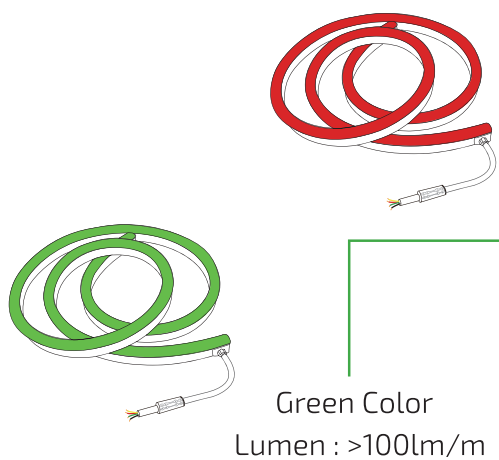
Model	F21-24V-5050-60-RGB	F21-24V-5050-72-RGB	F21-48V-5050-60-RGB
Operating voltage	24V	24V	48V
Power consumption	12W/M	13W/M	12W/M
Working Mode	PWM CV	PWM CV	PWM CV
LED type	SMD5050	SMD5050	SMD5050
LED Quantity	60 pcs/m	72 pcs/m	60 pcs/m
Available Color	RGB	RGB	RGB
Min. cutting Unit	6 LEDs	6 LEDs	15 LEDs
Min. cutting length	10cm	8.33cm	16.67cm
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 standard, 5 years warranty maximum		

## Lumen Output

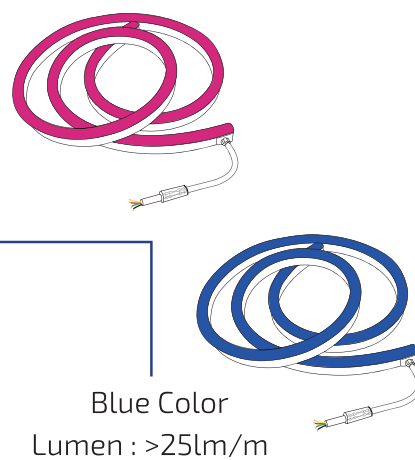
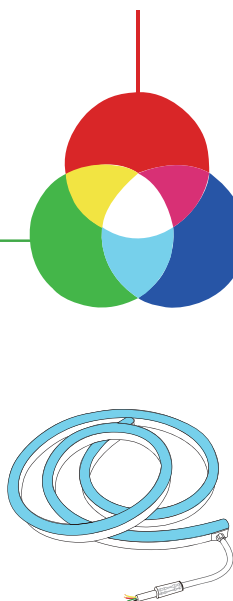
F21-24V-5050-60-RGB

Red Color  
Lumen : >35lm/m

Red ( R ) 630-650nm



Green ( G ) 530-550nm



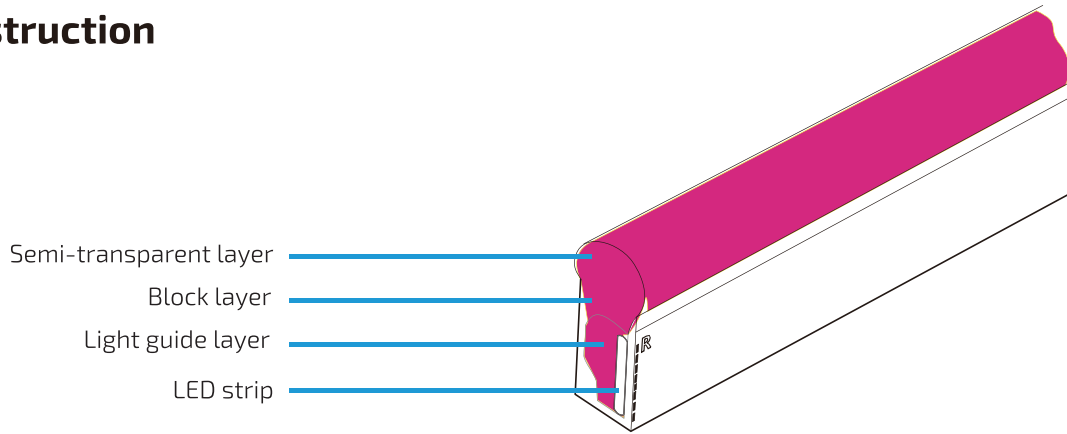
Blue ( B ) 465-475nm

For more information

Email: info@neonled.sk

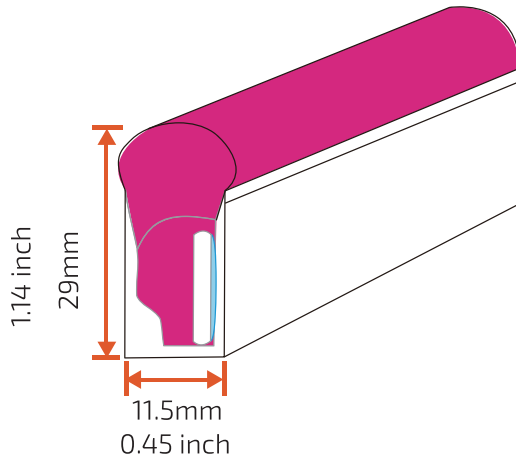
Or visit www.neonled.sk

### Construction

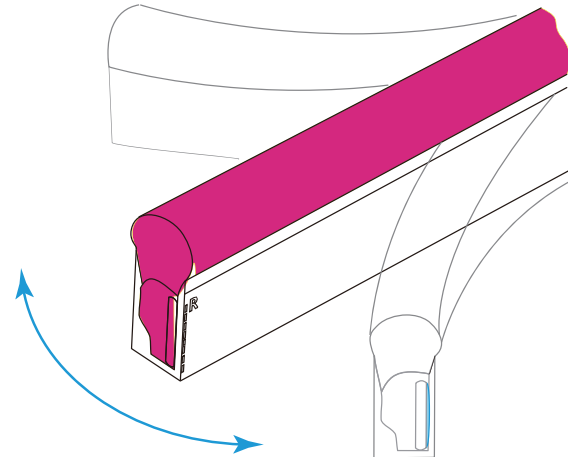


### Physical Specification

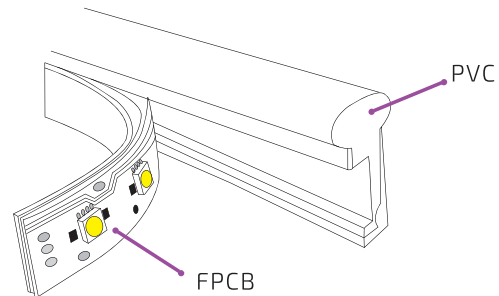
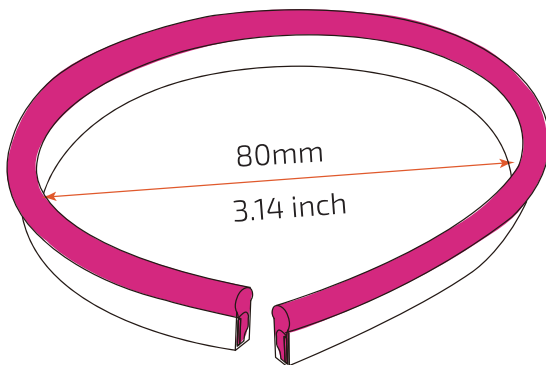
Light profile



Bending direction



Min. bending diameter



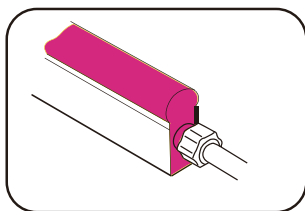
For more information

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

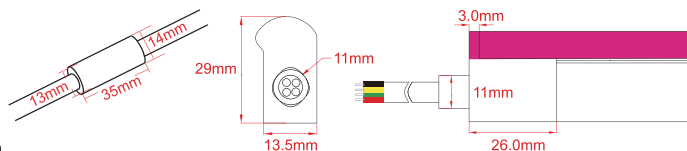
Or visit [www.neonled.sk](http://www.neonled.sk)

### Mold injection connector

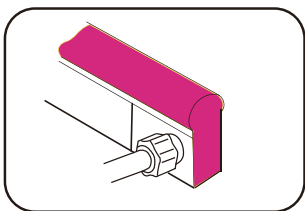
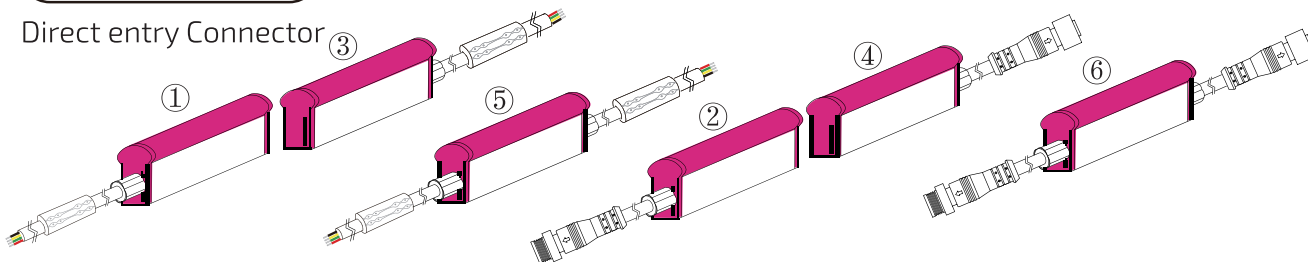
(IP68 Factory Assembly only)



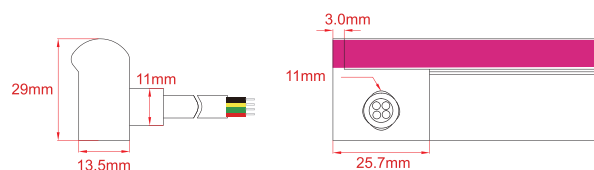
- ① MJ-21-RGB-D01
- ② MJ-21-RGB-D01SM
- ③ MJ-21-RGB-D02
- ④ MJ-21-RGB-D02SF
- ⑤ MJ-21-RGB-D03
- ⑥ MJ-21-RGB-D03SFM



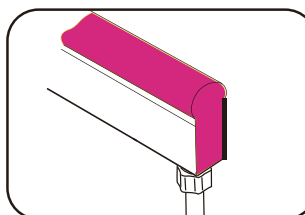
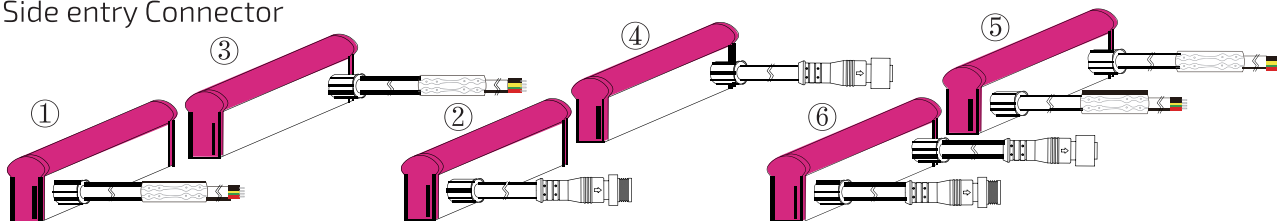
Direct entry Connector



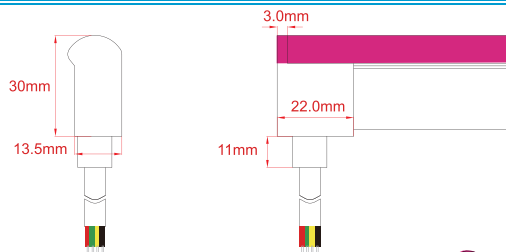
- ① MJ-21-RGB-S01
- ② MJ-21-RGB-S01SM
- ③ MJ-21-RGB-S02
- ④ MJ-21-RGB-S02SF
- ⑤ MJ-21-RGB-S03
- ⑥ MJ-21-RGB-S03SFM



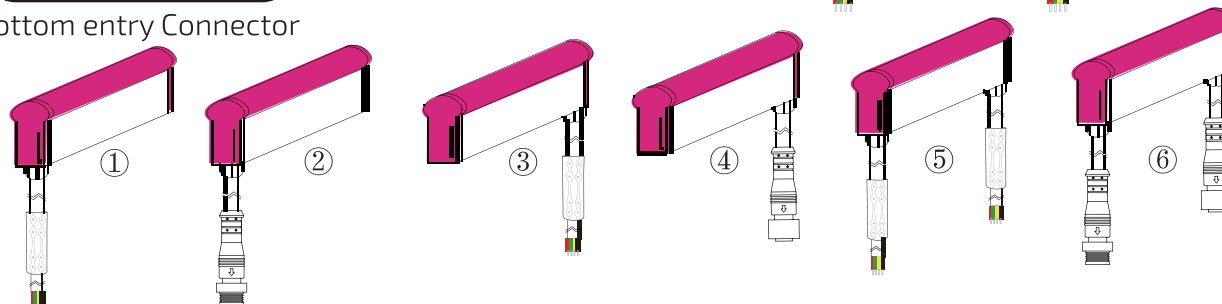
Side entry Connector



- ① MJ-21-RGB-B01
- ② MJ-21-RGB-B01SM
- ③ MJ-21-RGB-B02
- ④ MJ-21-RGB-B02SF
- ⑤ MJ-21-RGB-B03
- ⑥ MJ-21-RGB-B03SFM



Bottom entry Connector

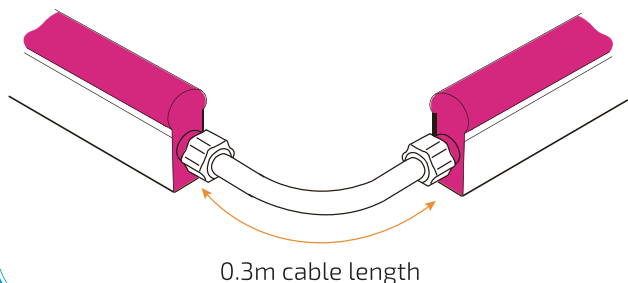


For more information

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

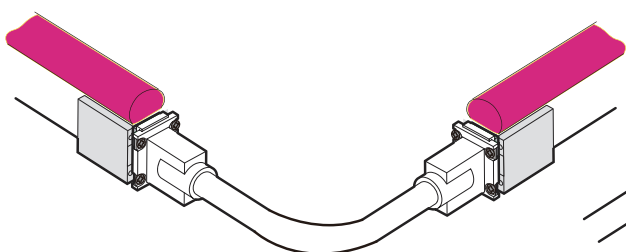
Or visit [www.neonled.sk](http://www.neonled.sk)

Mold injection Jumper  
(IP68 Factory Assembly only)

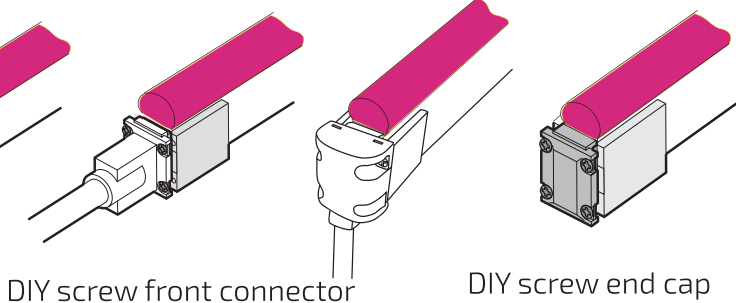


DIY Screw & Snap Connector Kit (IP67 Only)

DIY screw splice connector kit



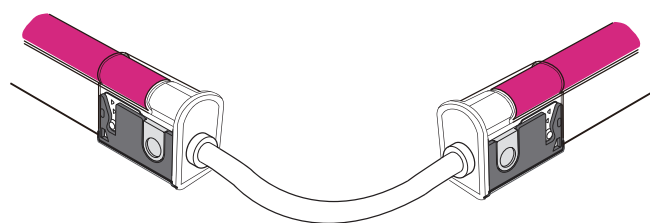
DIY screw connector kit



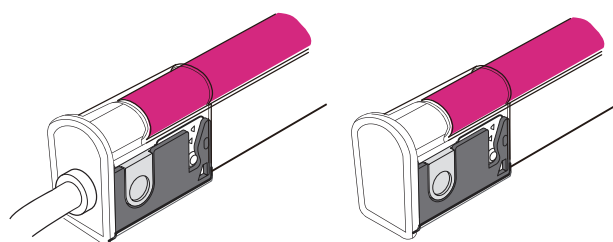
DIY screw front connector

DIY screw end cap

DIY snap splice connector kit



DIY snap connector kit



DIY snap front connector

DIY snap end cap

Type	Model
Middle injection Connector	MJ-21-A-M01-06
DIY screw connector kit Jumper	DIY-SC-EXT-15-A
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
DIY snap front connector	DIY-SN-FR-21-D-01/2-D4
DIY screw end cap kit	DIY-SN-END-01/02-21

Noted:  
01- Right direction  
02- Left direction

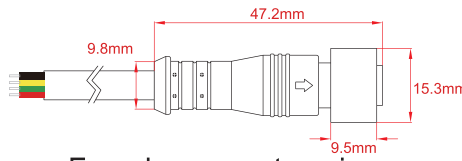
[For more information](#)

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

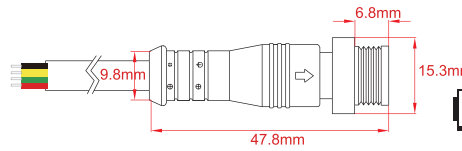
Or visit [www.neonled.sk](http://www.neonled.sk)

### Other Accessories

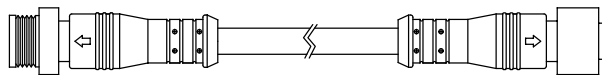
Female & Male Connector



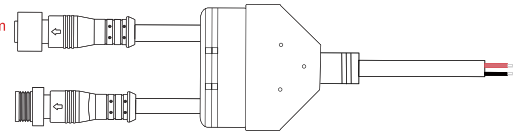
Female connector wire  
SYZ-M12-F-4C-05-W



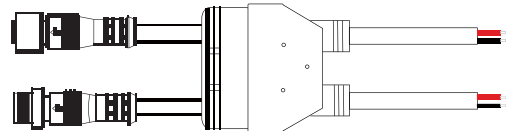
Male connector wire  
SYZ-M12-M-4C-05-W



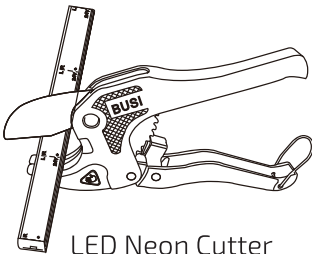
Middle power connector



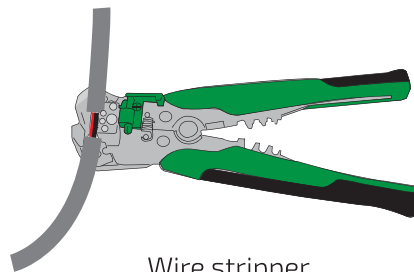
MID-CNR-RGB-1T2



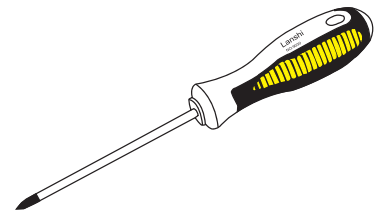
MID-CNR-RGB-2T2



LED Neon Cutter  
ACC-TOOL-C1



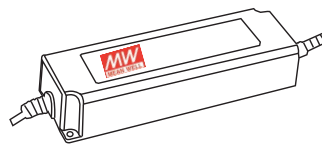
Wire stripper  
ACC-TOOL-WS01



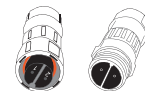
Screwdriver  
ACC-TOOL-C2



Mean Well Transformer  
Non-waterproof Series



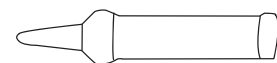
Mean Well Transformer  
Waterproof Series



Female & male wire connector  
KJ-M12-2P-F/ KJ-M12-2P-M



Silicone Rubber  
K-5905



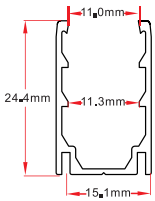
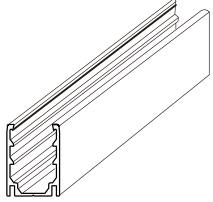
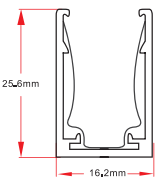
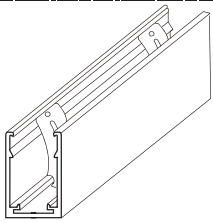
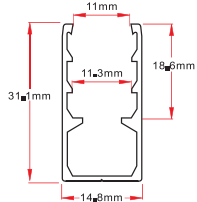
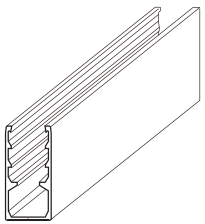
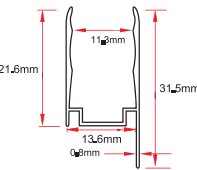
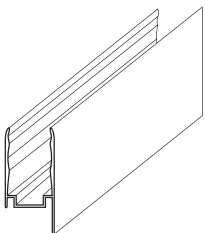
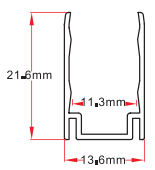
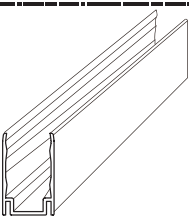
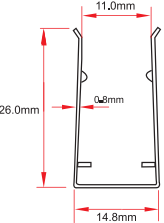
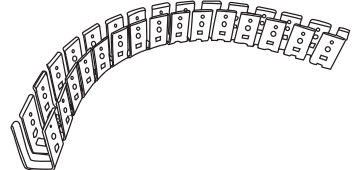
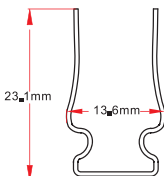
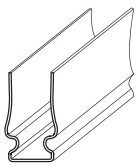
Assistant Tool  
ACC-TOOL-C3

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 Length option:1m,2m,35mm Material:Aluminum alloy Optional color:AS/AB/PW Type: Standard		
ALC15S02	Use for : F15 & F21 Length option:1m,2m,35mm Material:Aluminum alloy Optional color:AS/AB/PW Type: Anti-drop for upside down installation		
ALC15H01	Use for : F15 & F21 Length option:1m,2m,35mm Material:Aluminum alloy Optional color:AS/AB/PW Type: Cable hiding		
ALC15V01	Use for : F15 & F21 Length option:1m,2m,35mm Material:Aluminum alloy Optional color:AS/AB/PW Type: Vertical installation		
ALC21S01	Use for : F15 & F21 Length option:1m,2m,35mm Material:Aluminum alloy Optional color:AS/AB/PW Type: Standard		
SSC15FLX	Use for : F15 & F21 Length option:10cm,30cm,50cm,100cm Material: Stainless steel Optional color: Polished Type: Flexible		
SSC15S01	Use for : F15 & F21 Length option: 5cm Material: Stainless steel Optional color: Natural color Type: 316 stainless steel		

For more information

Email: info@neonled.sk

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



## Packing

Standard: Carton ( Paper reel inside)



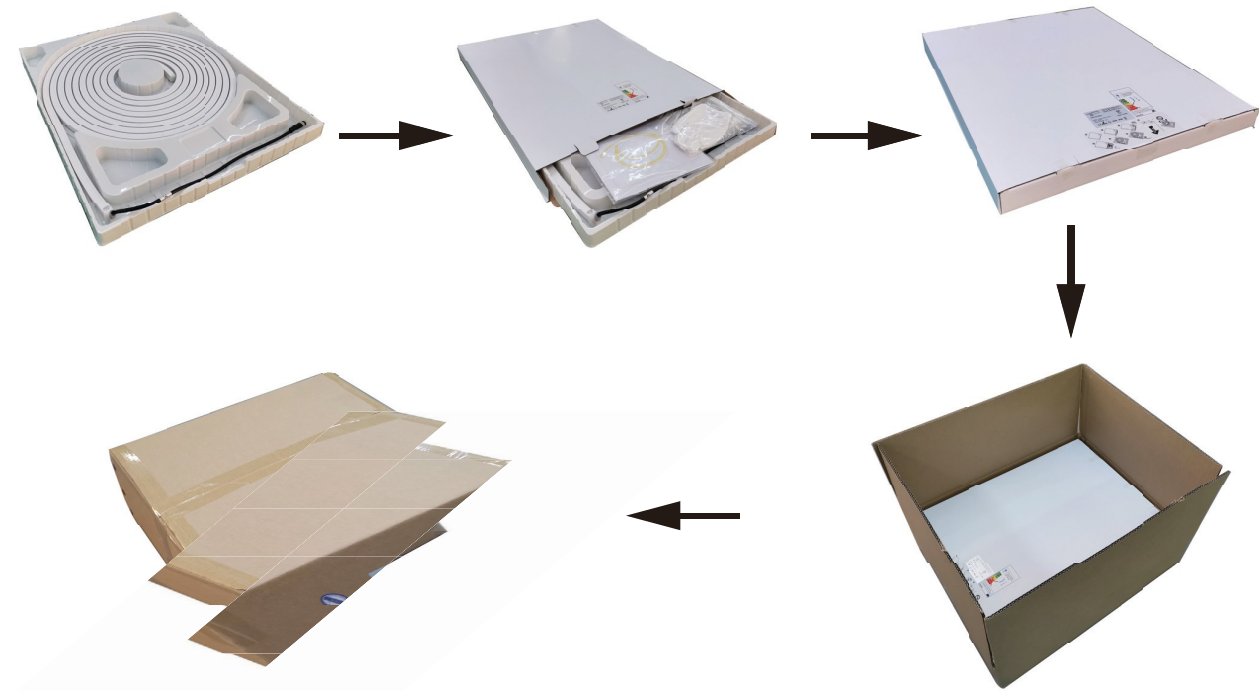
Fixture Length  
787.4in(20m)

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

Carton Dimension  
33\*33\*18cm

Gross Weight  
17.63 lbs ( 10.4 kg )

Custom: Carton ( White box+plastic plate inside)



Fixture Length  
393.7in(10m)

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

Carton Dimension  
57\*49\*19cm

White box Quantity  
Max 5pcs

Gross Weight  
57.32 lbs ( 26 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

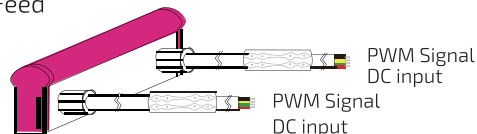
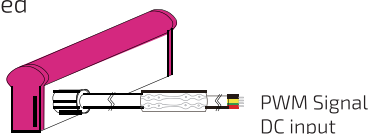
### Power supply

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	/	/

Single Feed

Double Feed

Lead Type



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.

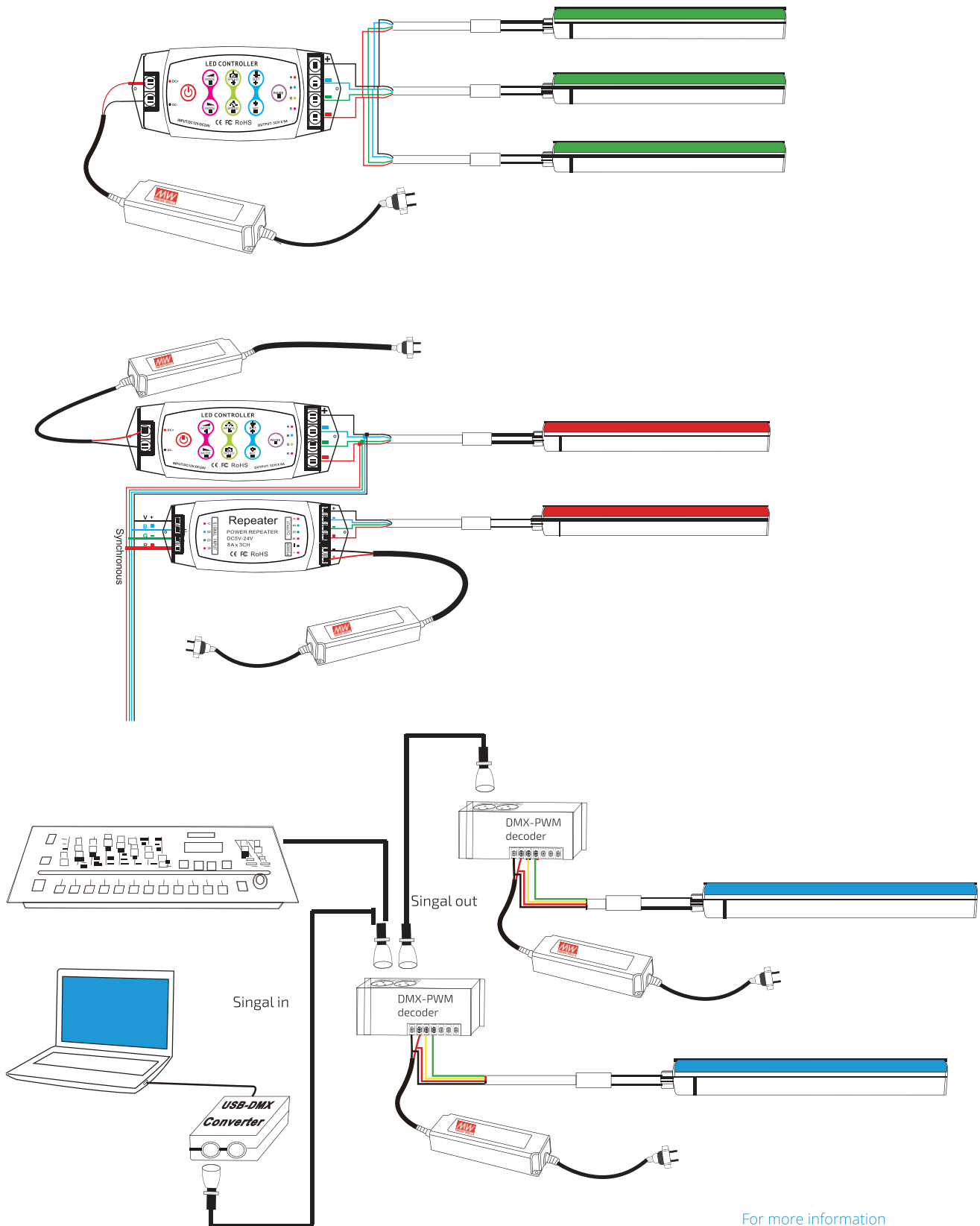
## Recommendation of extension wire

Maximum extension wire length according to Light power

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

- The values doesn't include the 0.6m cable connected to the front connector.
- 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)