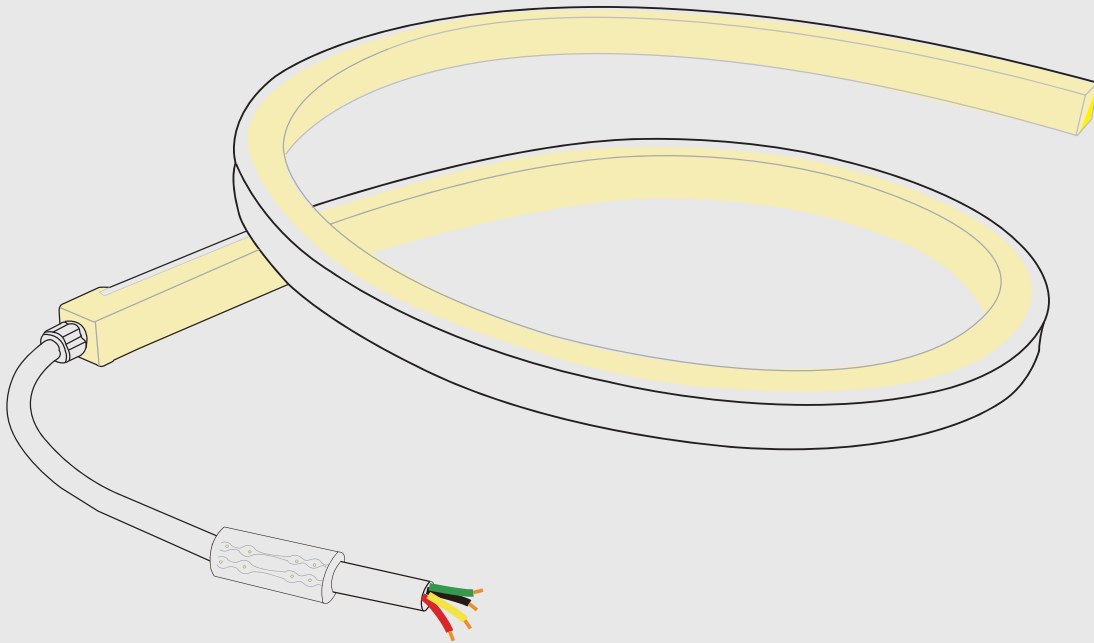








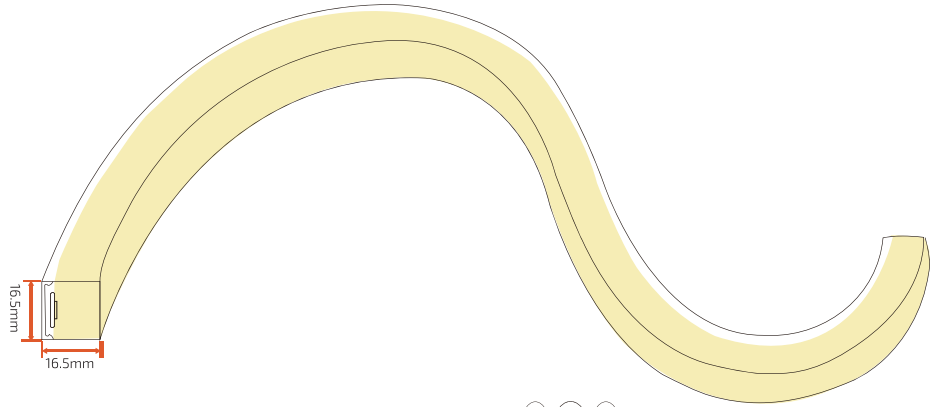
NEONLED



F18 Multi Color RGBW Neon flex Specification

Dimension

-  Gross weight: 0.43kg/m
-  Dimmable: DALI, 0-10V, DMX, Triac
-  Installation Temp.: 0°C to +55°C
-  Ambient Temp.: -25°C to +55°C
-  Min. Bending : 120mm
-  Beam Angle : 260 degree



Eco-friendly PVC or Silicone Housing material optional

Features

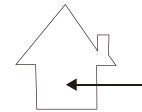
- Uniform and even light output, three side emitting
- Flat surface with 260 degree beam angle
- 60 LEDs per meter, vertical bending
- Connect with Dali, DMX,PWM
- Full encapsulated with IP68 Level
- High Reliability
- 3 or 5 Years warranty

Applications

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



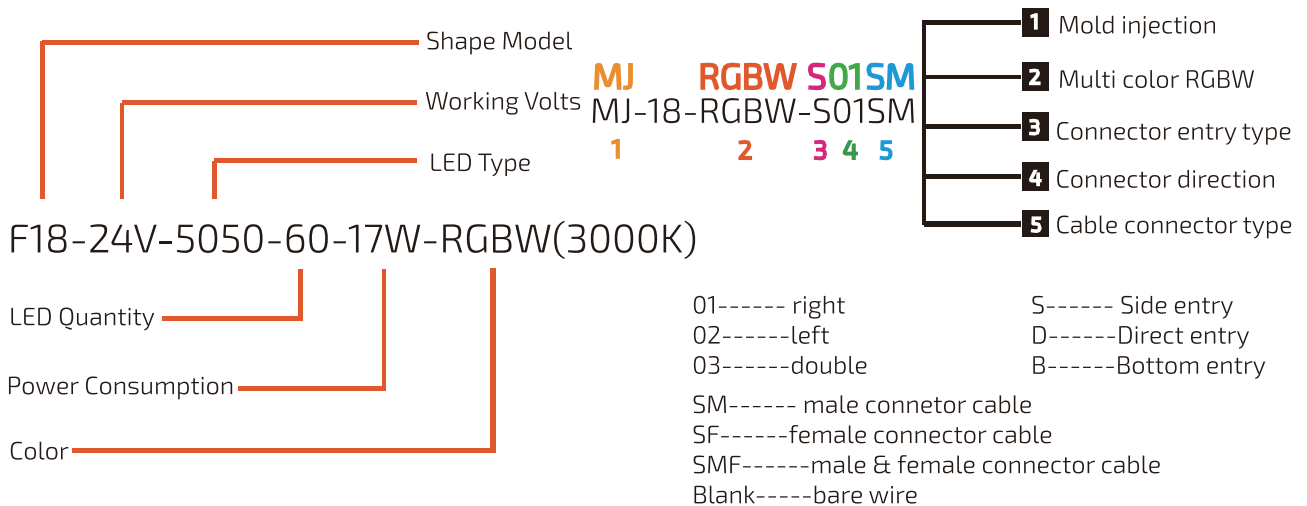
outdoor use



indoor use



Model Encoding



For more information

Email: info@neonled.sk

Or visit www.neonled.sk

Technical Specification

| | | |
|--------------------------|---|-------------------------|
| Model | F18-24V-5050-60-RGBW | F18-24V-5050-72-RGBW |
| Operating voltage | 24V | 24V |
| Power consumption | 17W/M | 17W/M |
| Working Mode | PWM CV | PWM CV |
| LED type | SMD5050 | SMD5050 |
| LED Quantity | 60 pcs/m | 72 pcs/m |
| Available Color | RGBW(2200K/3000K/4000K) | RGBW(2200K/3000K/4000K) |
| Min. cutting Unit | 6 LEDs | 6 LEDs |
| Min. cutting length | 10cm | 8.33cm |
| Max. length single feed | 8m | 8m |
| Max. length double feed | 16m | 16m |
| Bending direction | Vertically | |
| 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

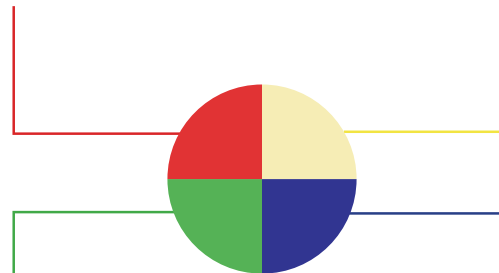
F18-24V-5050-60-RGBW(3000K)

Red Color
Lumen : >140lm/m

3000K
Lumen : >150lm/m

Green Color
Lumen : >220lm/m

Blue Color
Lumen : >120lm/m

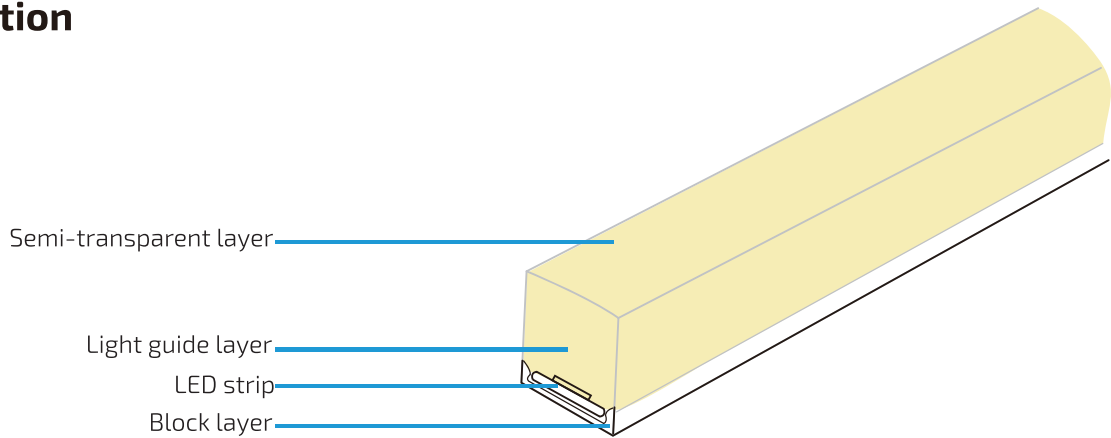


[For more information](#)

Email: info@neonled.sk

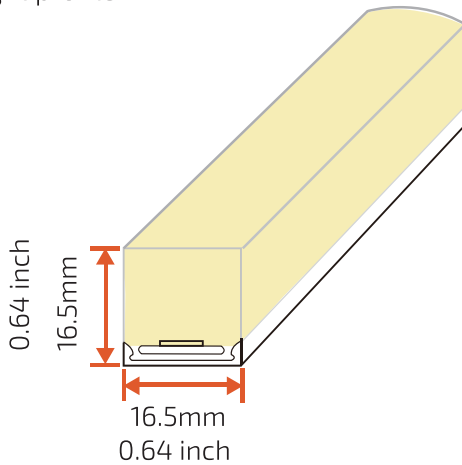
Or visit www.neonled.sk

Construction

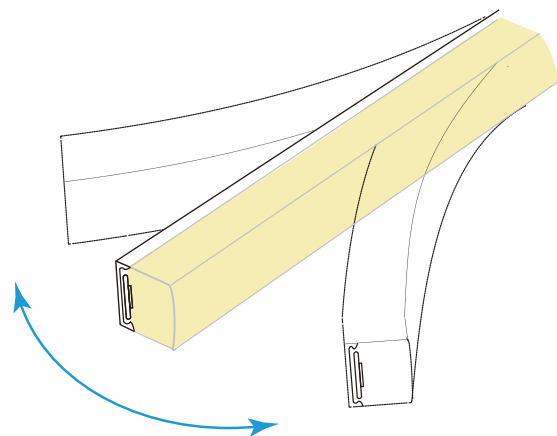


Physical Specification

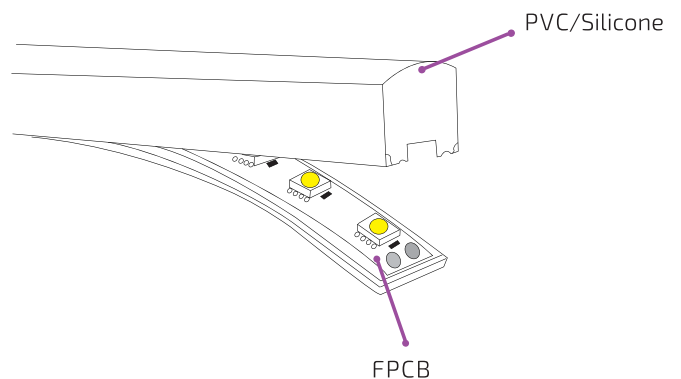
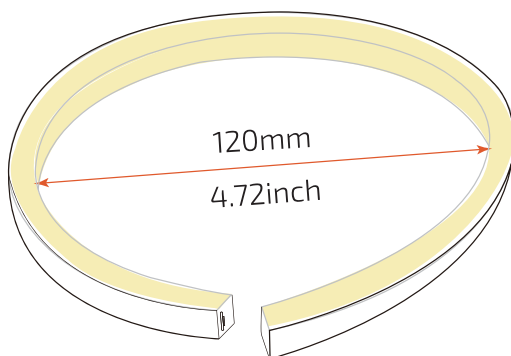
Light profile



Bending direction



Min. bending diameter



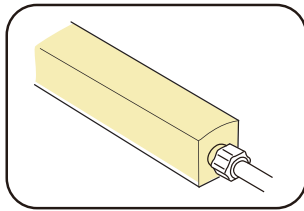
[For more information](#)

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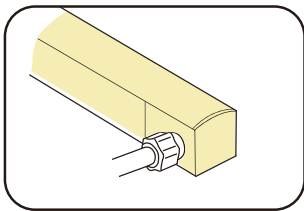
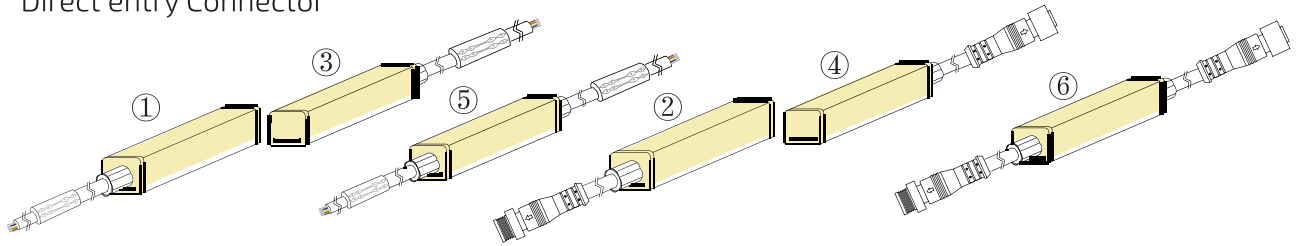
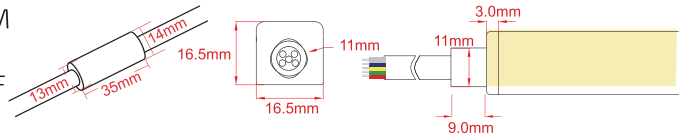
Mold injection connector

(IP68 Factory Assembly only)



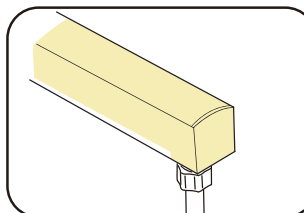
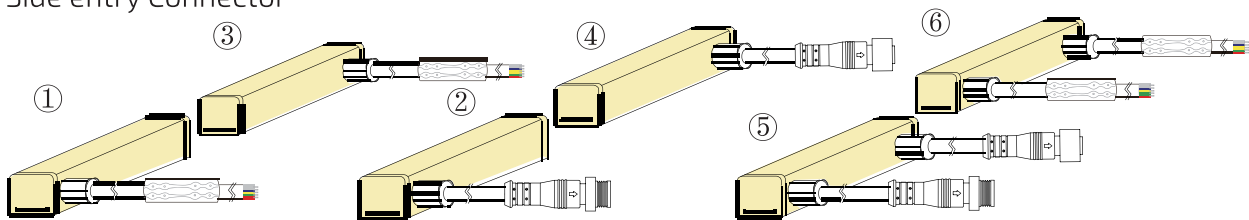
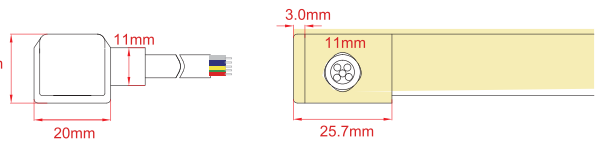
Direct entry Connector

- ① MJ-18-RGBW-D01
- ② MJ-18-RGBW-D01SM
- ③ MJ-18-RGBW-D02
- ④ MJ-18-RGBW-D02SF
- ⑤ MJ-18-RGBW-D03
- ⑥ MJ-18-RGBW-D03SFM



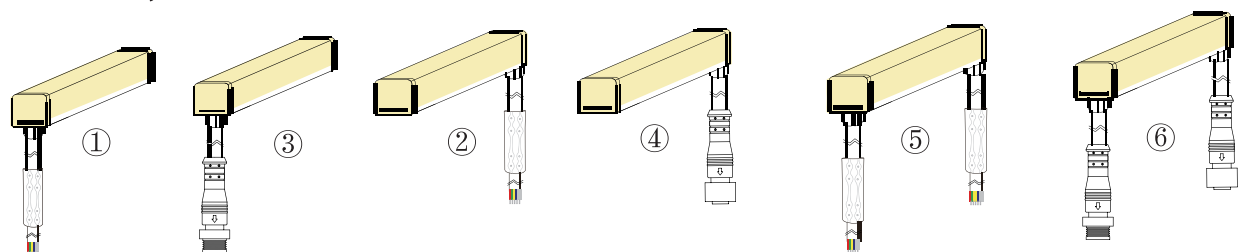
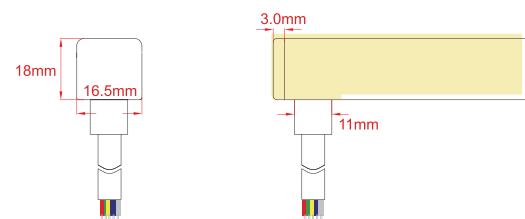
Side entry Connector

- ① MJ-18-RGBW-S01
- ② MJ-18-RGBW-S01SM
- ③ MJ-18-RGBW-S02
- ④ MJ-18-RGBW-S02SF
- ⑤ MJ-18-RGBW-S03
- ⑥ MJ-18-RGBW-S03SFM



Bottom entry Connector

- ① MJ-18-RGBW-B01
- ② MJ-18-RGBW-B01SM
- ③ MJ-18-RGBW-B02
- ④ MJ-18-RGBW-B02SF
- ⑤ MJ-18-RGBW-B03
- ⑥ MJ-18-RGBW-B03SFM



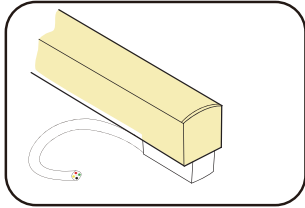
For more information

Email: info@neonled.sk

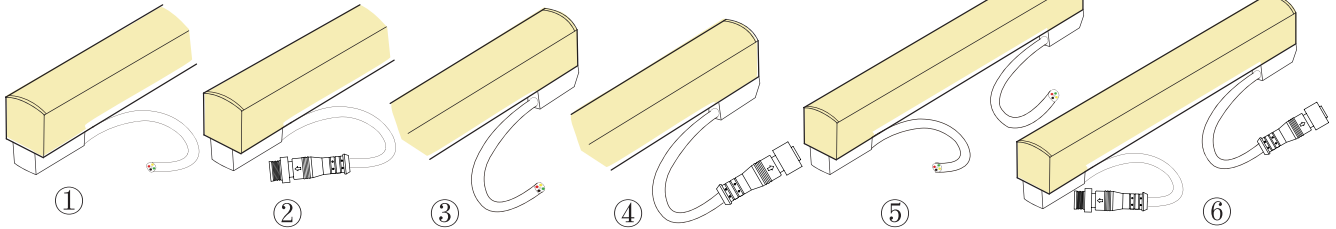
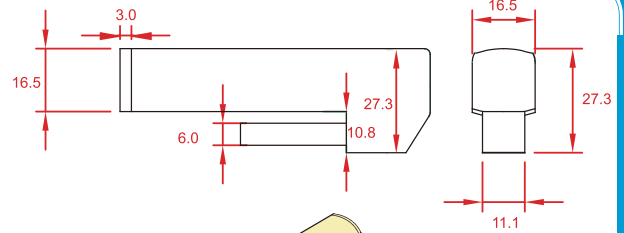
Or visit www.neonled.sk

Mold injection Connector

(IP68 Factory Assembly only)



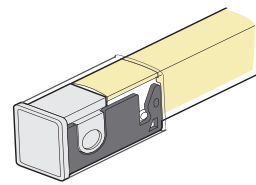
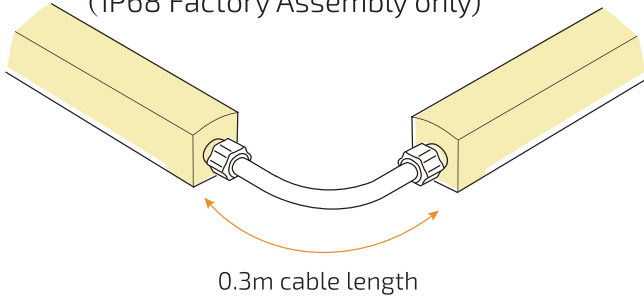
- ① MJ-18-RGBW-L01
- ② MJ-18-RGBW-L01SM
- ③ MJ-18-RGBW-L02
- ④ MJ-18-RGBW-L02SF
- ⑤ MJ-18-RGBW-L03
- ⑥ MJ-18-RGBW-L03SMF



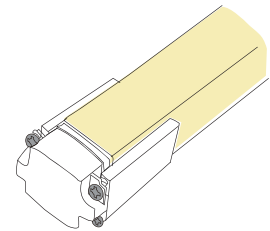
DIY Screw & Snap Connector Kit

Mold injection Jumper
(IP68 Factory Assembly only)

(IP67 Only)



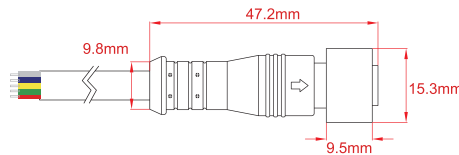
DIY snap end cap



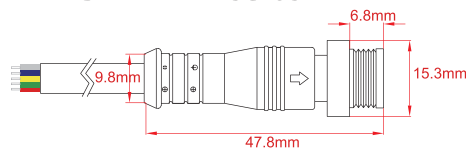
DIY screw end cap

Other Accessories

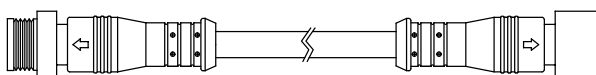
Female & Male Connector



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



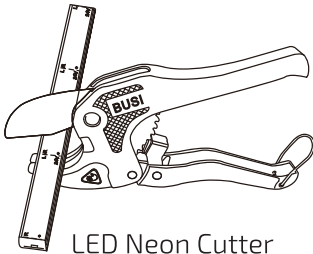
Male connector wire
SYZ-M12-M-5C-05-W



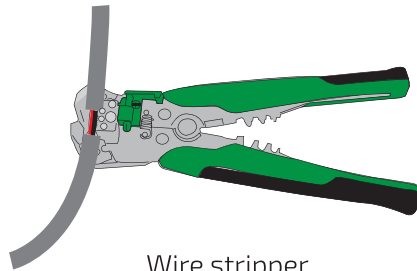
For more information

Email: info@neonled.sk

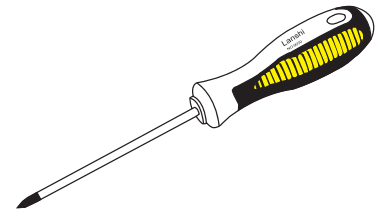
Or visit www.neonled.sk



LED Neon Cutter
ACC-TOOL-C1



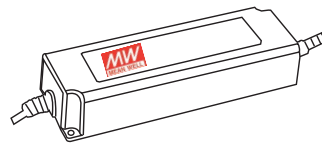
Wire stripper
ACC-TOOL-WS01



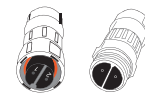
Screwdriver
ACC-TOOL-C2



Mean Well Transformer
Non-waterproof Series



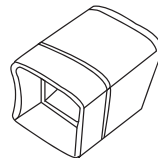
Mean Well Transformer
Waterproof Series



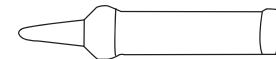
Female & male wire connector
KJ-M12-4P-F/ KJ-M12-4P-M



Silicone Rubber
K-5905



PVC End Cap
DIY-PVC-END-16



Assistant Tool
ACC-TOOL-C3

Mounting Channel

| Model | Description | Dimension | Drawing |
|----------------|--|-----------|---------|
| ALC18S01 | Use for : F18 Length option:1m,2m,35mm Material:Aluminum alloy+ Plastic Optional color:AS/AB/PW Type: Standard | | |
| ACC-HX-S2830C2 | Use for mounting channel for angle adjustment | | |

For more information

Email: info@neonled.sk

Or visit www.neonled.sk

Packing

Standard: Carton (Paper reel inside)



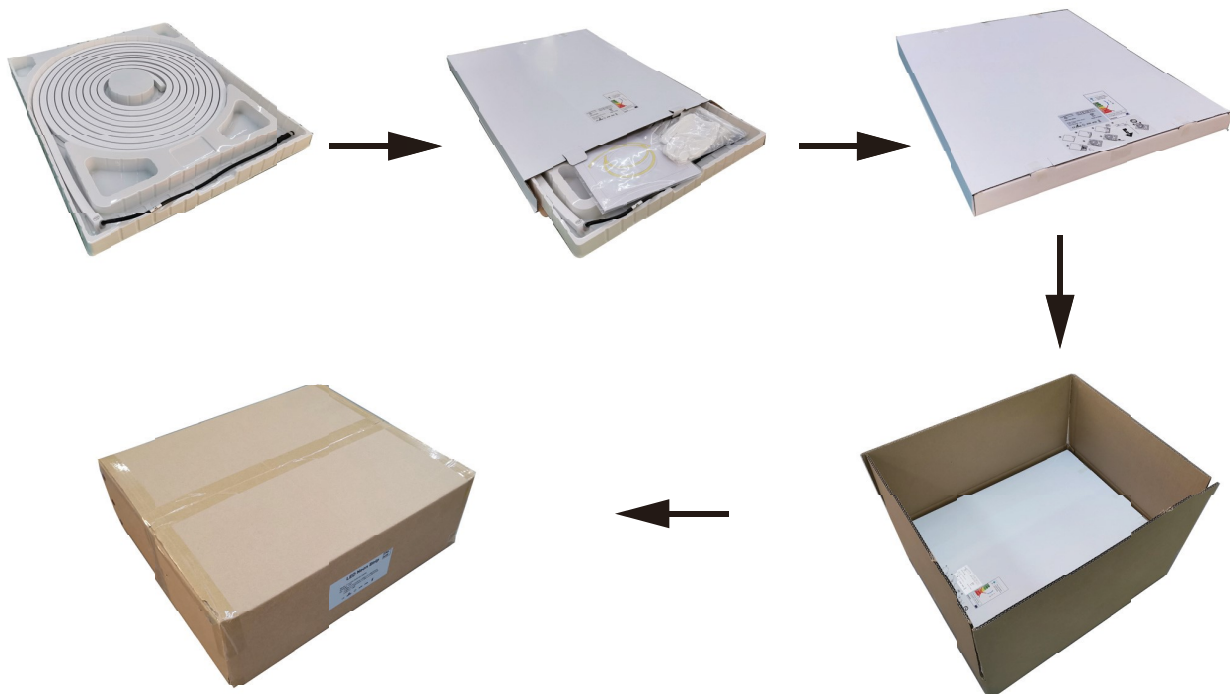
Fixture Length
787.4in(20m)

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)

[For more information](#)

Email: info@neonled.sk

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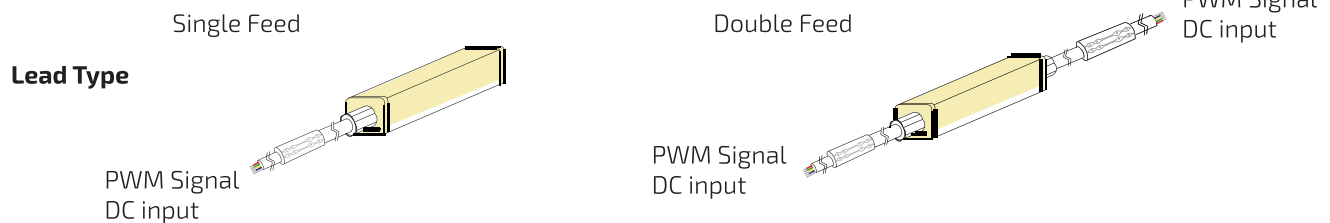
Testing

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 | / |



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 0.34mm ² | 20AWG 0.53mm ² | 18AWG 0.82mm ² | 17AWG 1.04mm ² | 16AWG 1.38mm ² | 14AWG 2.07mm ² | 12AWG 3.29mm ² | 10AWG 5.62mm ² |
|----------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 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:

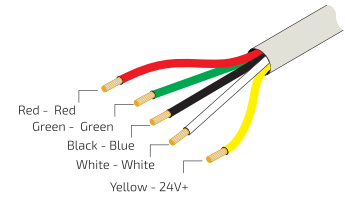
- The values doesn't include the 0.6m cable connected to the front connector.
- To ensure the reliability of wire connection and avoid problem of voltage drop, the extension wire length should be smaller than the above recommended values.

[For more information](#)

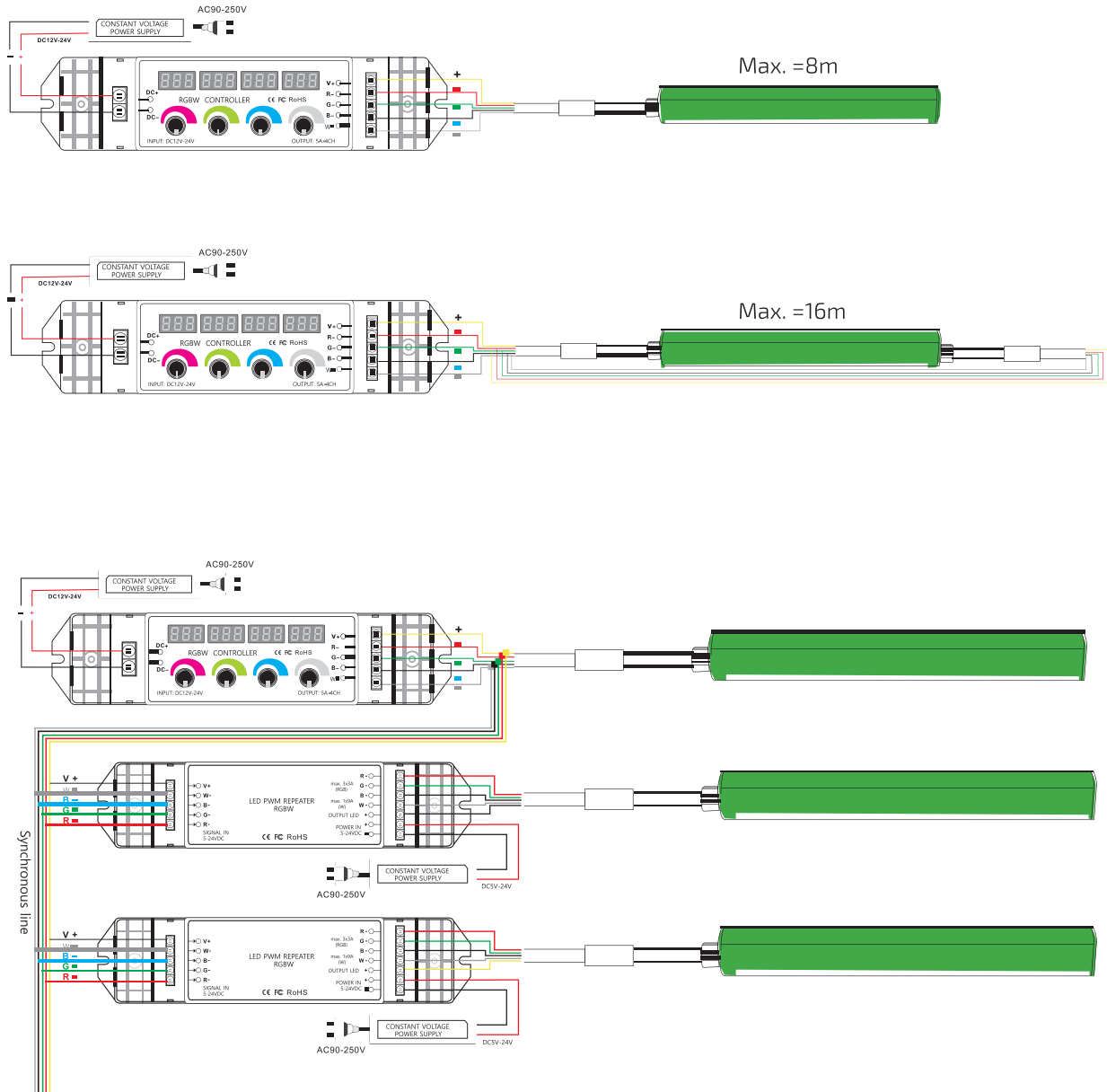
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Connection diagram



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

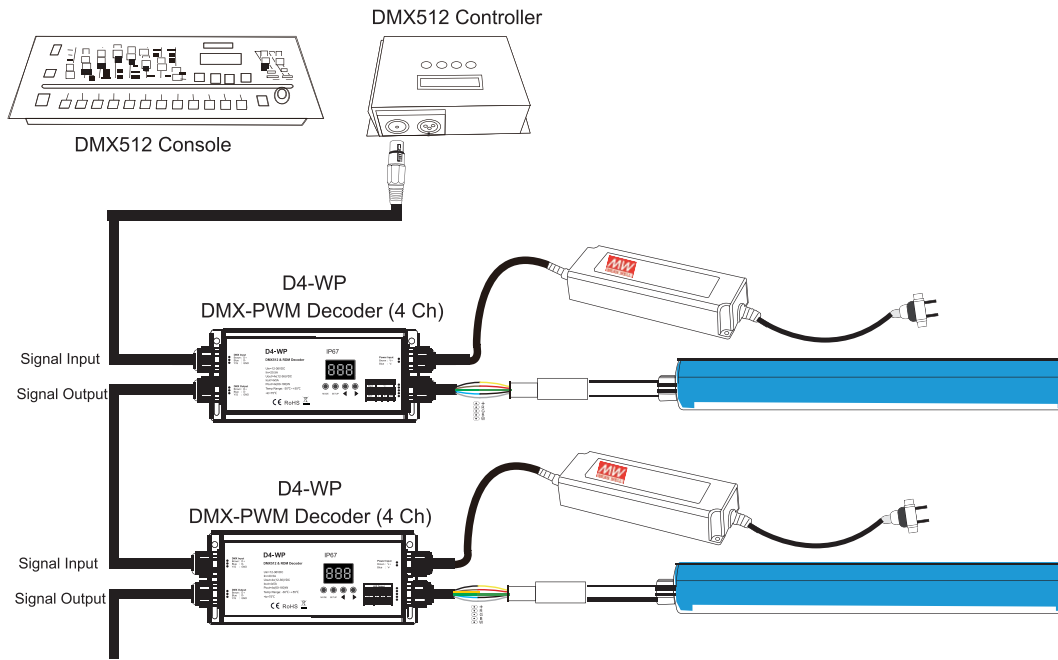


For more information

Email: info@neonled.sk

Or visit www.neonled.sk

Connection with DMX512 console or DMX512 Controller



Connection with DALI control Systems

