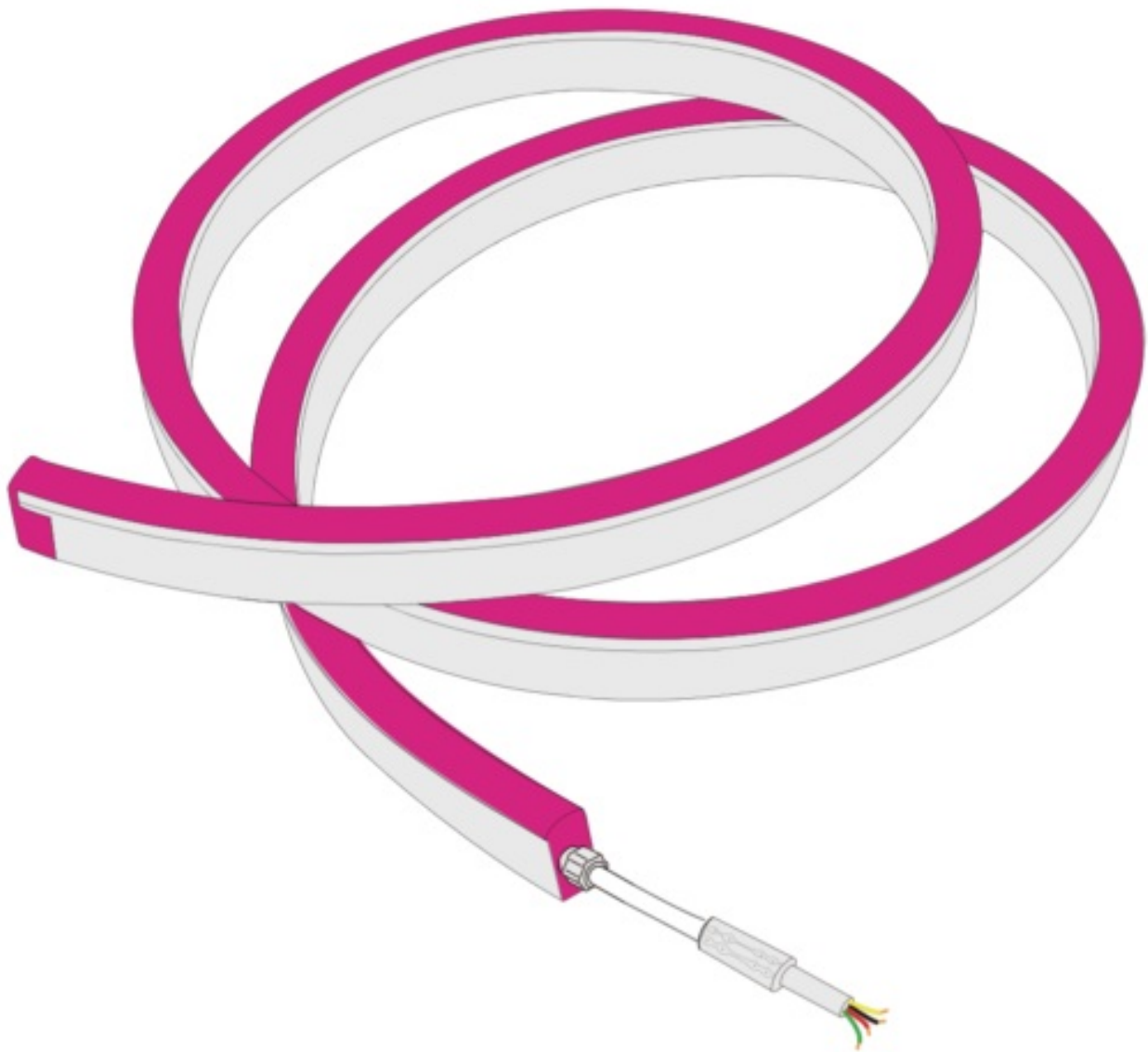




Lighting Olympia F5 Multi color RGB series LED neon flex Installation Guide

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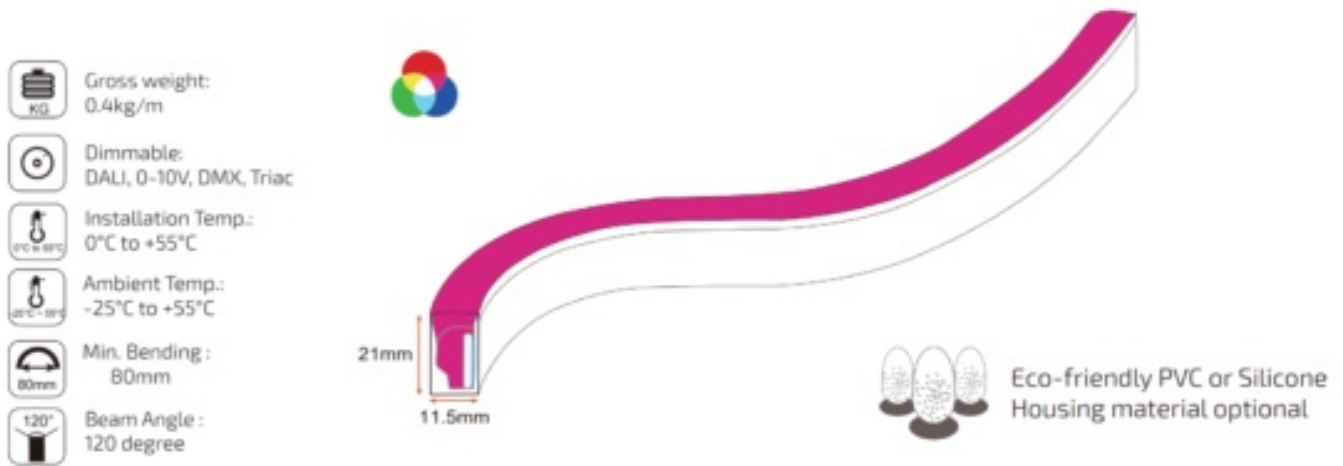
Lighting Olympia F5 Multi color RGB series LED neon flex



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Dimension



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 lightin
- Linear lighting
- Additional lighting
- Decorative lighting

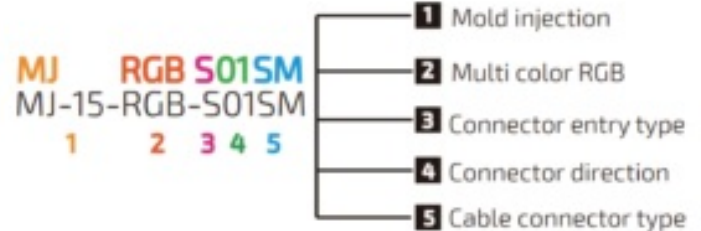
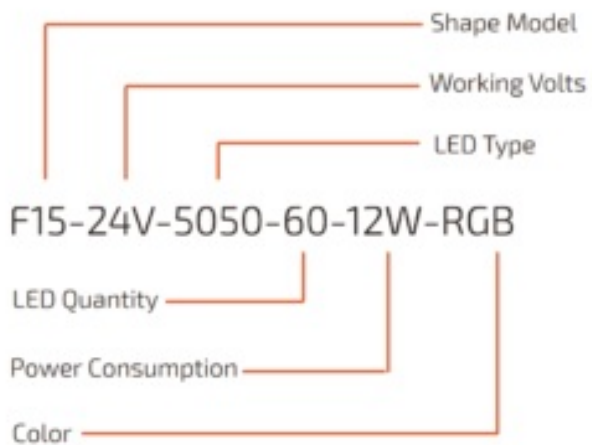


outdoor use



indoor use

Model Encoding



S—— Side entry
D——Direct entry
B——Bottom entry

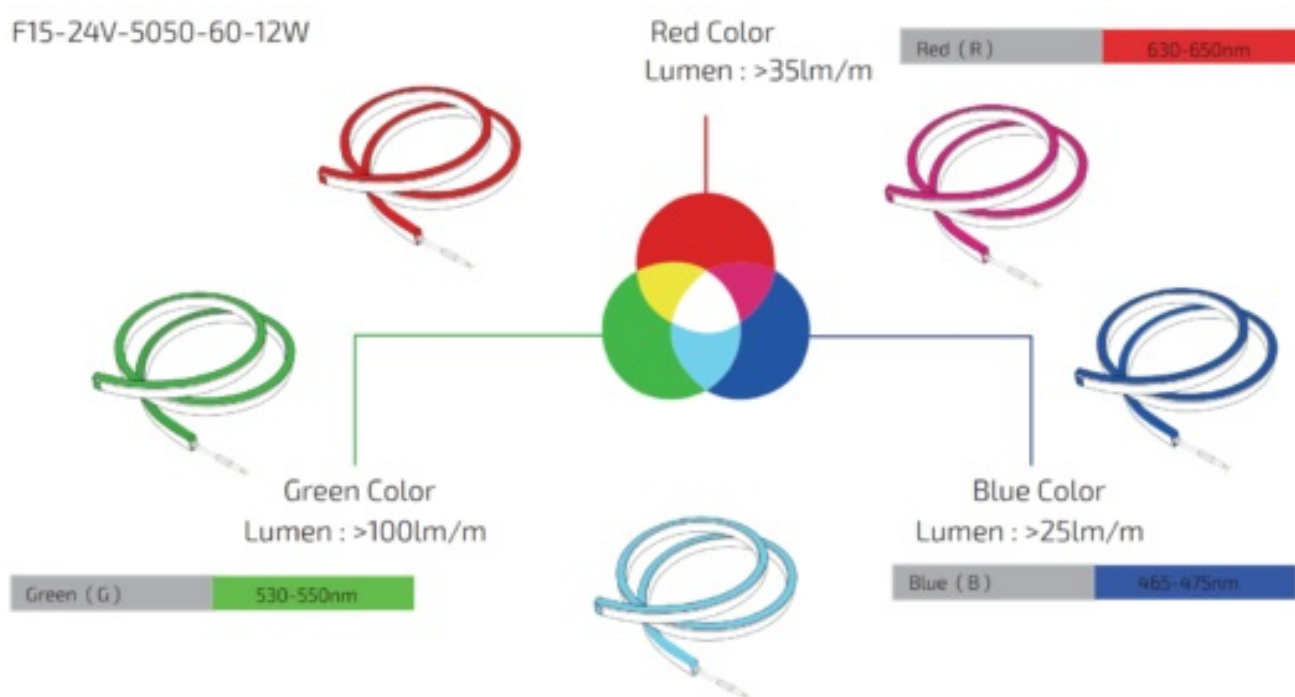
01—— right
02——left
03——double
SM—— male connetor cable
SF——female connector cable
SMF——male & female connector cable
Blank——bare wire

Technical Specification

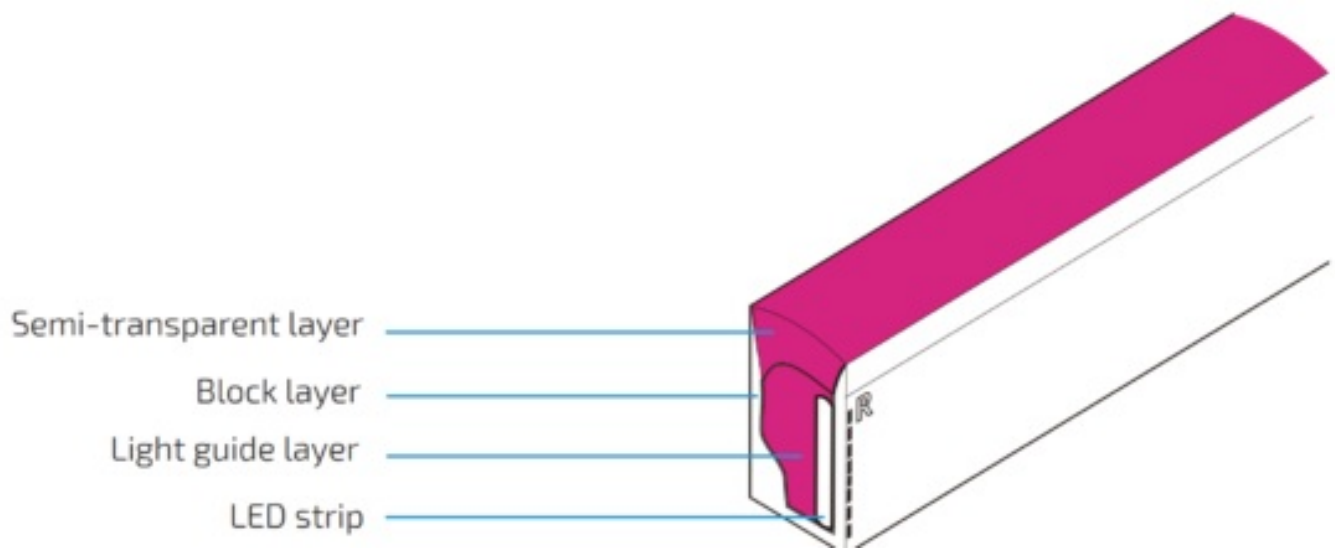
Model	F15-24V-5050-60-RGB	F15-24V-5050-72-RGB	F15-48V-5050-60-RGB
Operating voltage	24V	24V	48V
Power consumption	12W/M	13W/M	12W/M
Working Mode	PWM CV	PWM CV	PWM CV
LED type	SMD5050	SMD5050	SMD5050
LED Quantity	60 pcs/m	72 pcs/m	60 pcs/m
Available Color	RGB	RGB	RGB
Min. cutting Unit	6 LEDs	6 LEDs	15 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

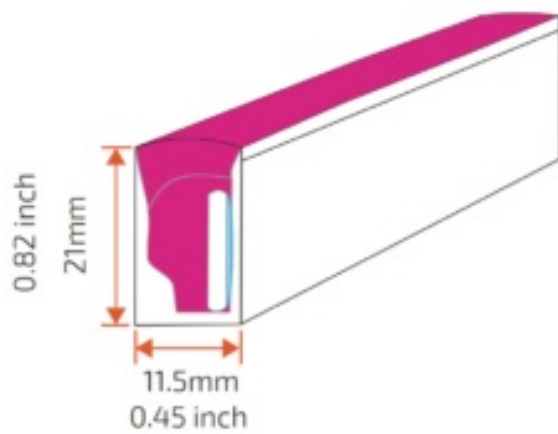


Construction

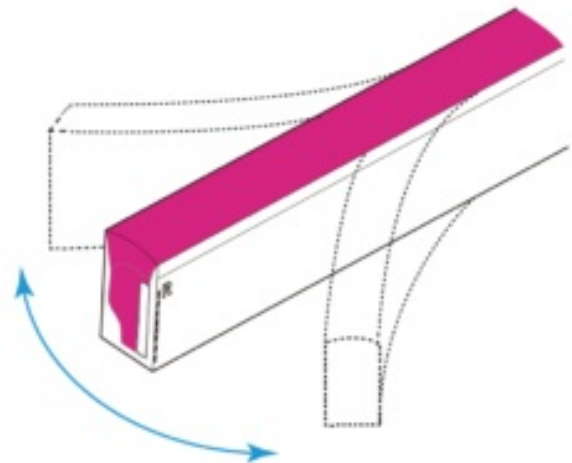


Physical Specification

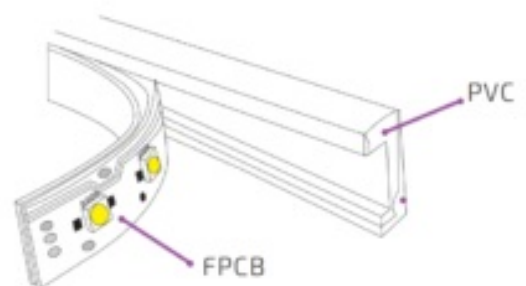
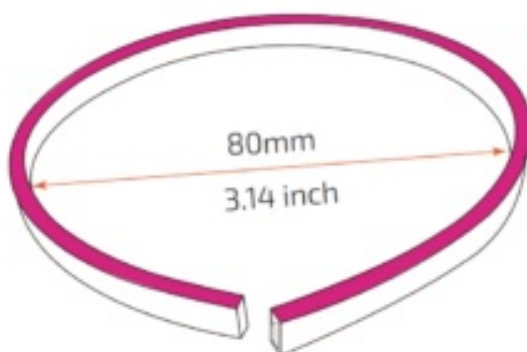
Light profile



Bending direction

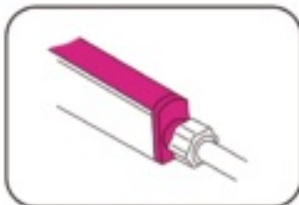


Min. bending diameter



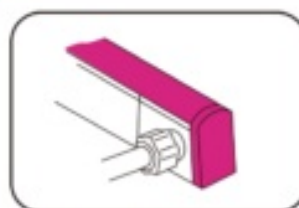
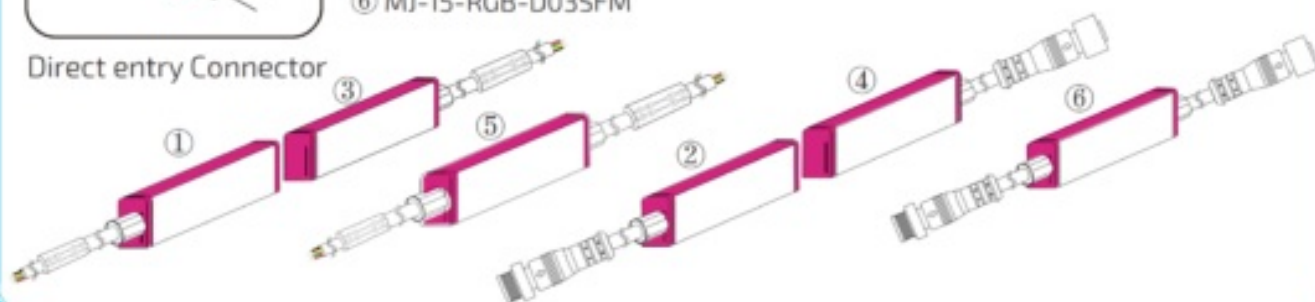
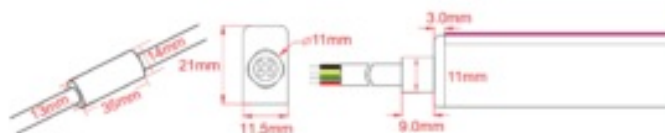
Mold injection connector

(IP68 Factory Assembly only)



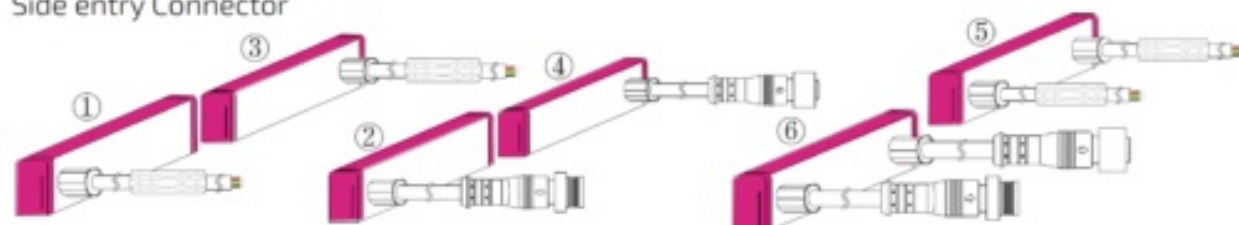
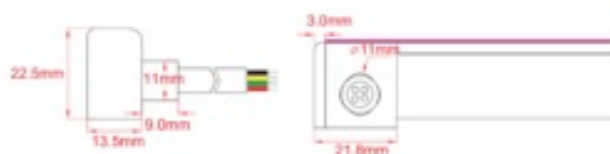
Direct entry Connector

- 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



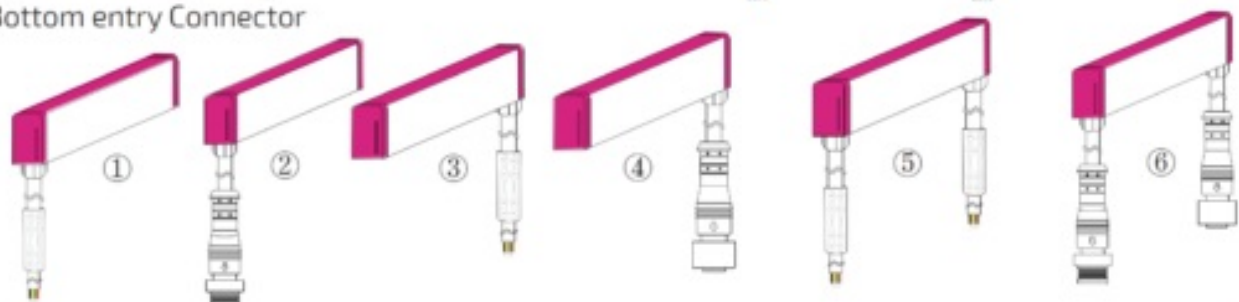
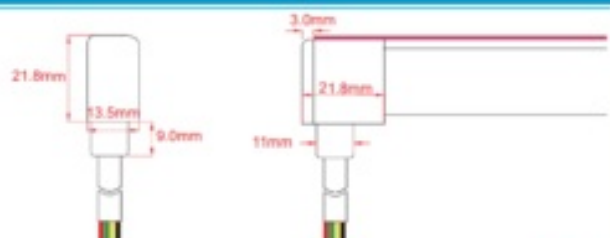
Side entry Connector

- 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

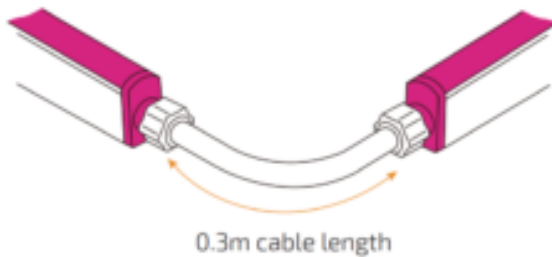


Bottom entry Connector

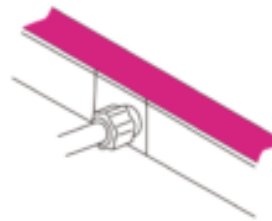
- ① MJ-15-RGB-B01
- ② MJ-15-RGB-B01SM
- ③ MJ-15-RGB-B02
- ④ MJ-15-RGB-B02SF
- ⑤ MJ-15-RGB-B03
- ⑥ MJ-15-RGB-B03SFM



Mold injection Jumper



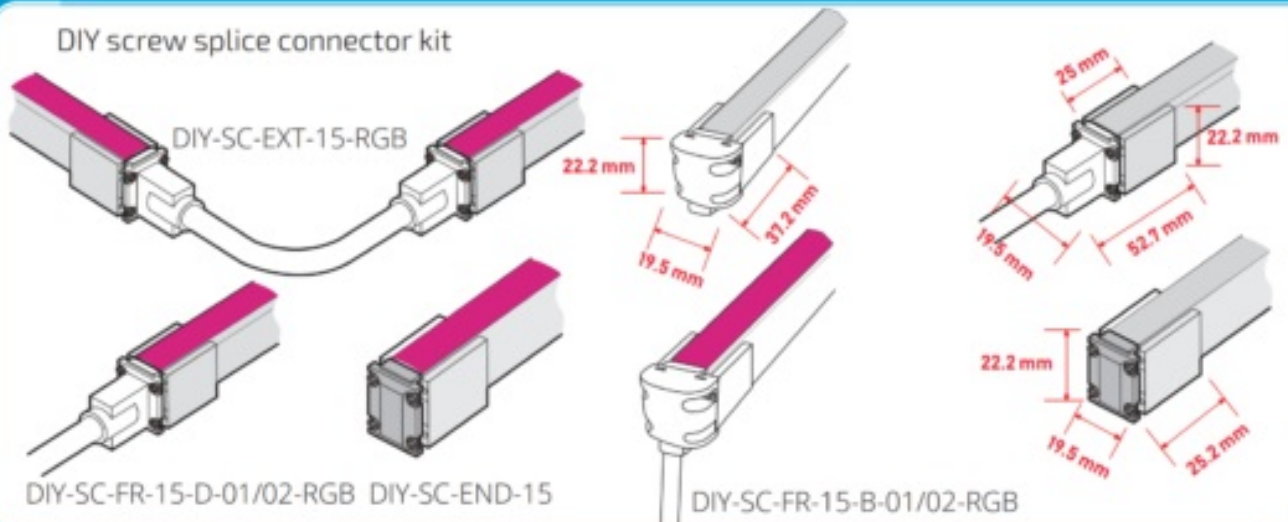
Middle injection Connector



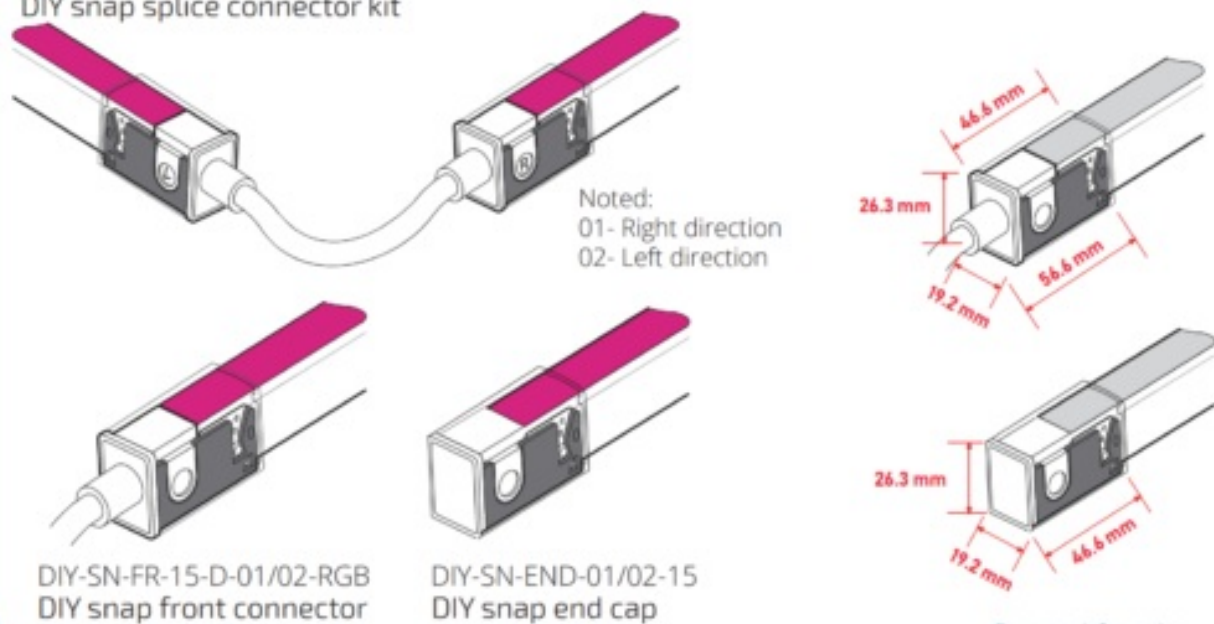
(IP68 Factory Assembly only)

DIY Screw & Snap Connector Kit (IP67 Only)

DIY screw splice connector kit



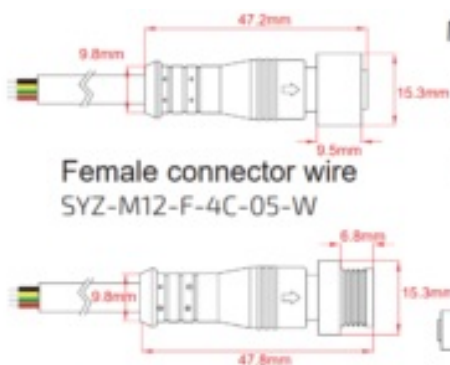
DIY snap splice connector kit



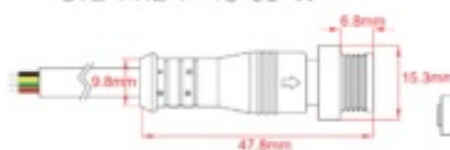
For more information

Other Accessories

Female & Male Connector



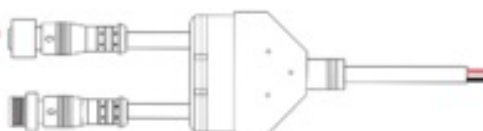
Female connector wire
SYZ-M12-F-4C-05-W



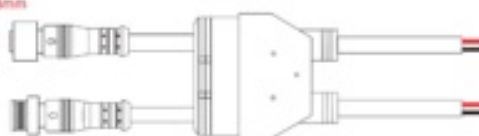
Male connector wire
SYZ-M12-M-4C-05-W



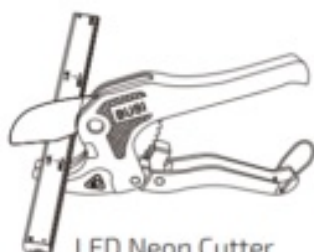
Middle power connector



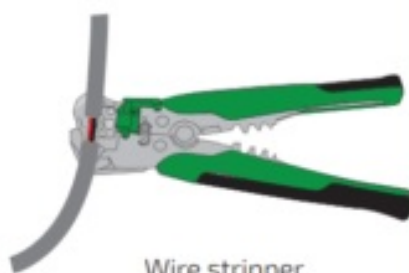
MID-CNR-RGB-1T2



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



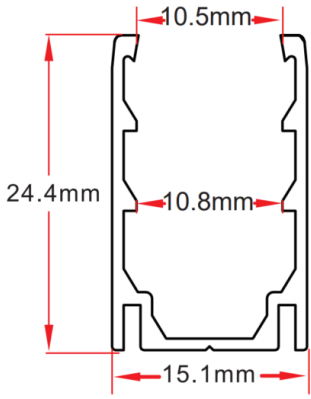
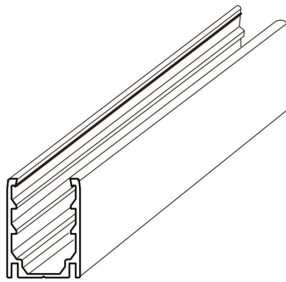
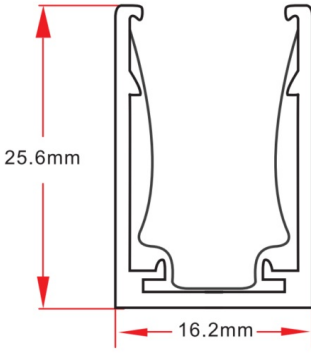
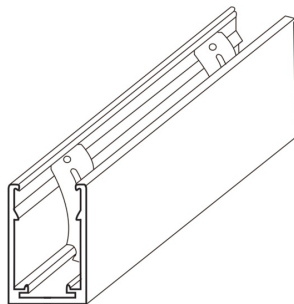
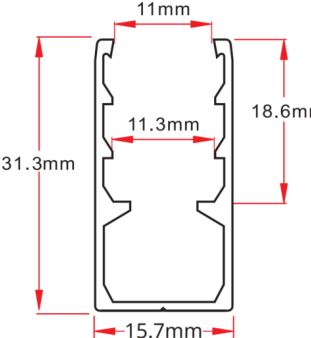
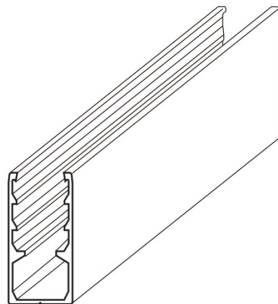
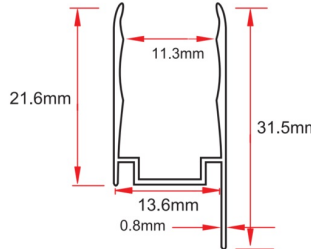
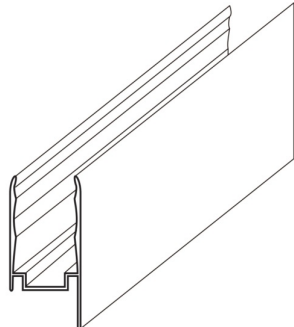
PVC End Cap
DIY-PVC-END-15

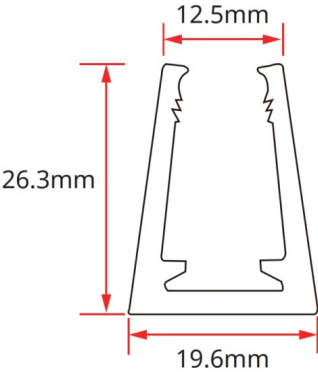
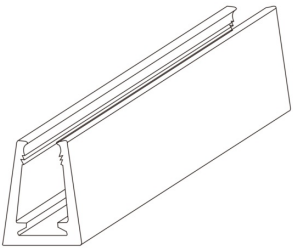
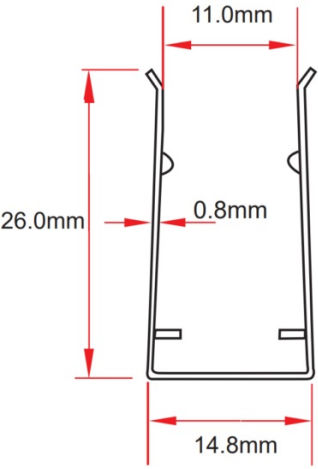
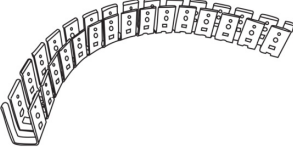
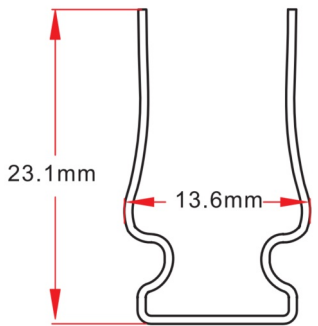
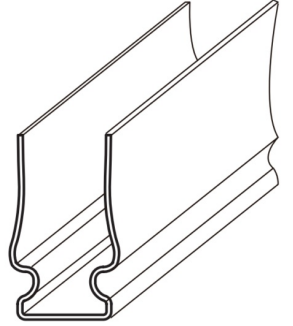


Assistant Tool
ACC-TOOL-C3

Mounting Channel

Model	Description	Dimension	Drawing
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ALC15S01	Use for : F15 & F21 Length option:1m,2m,35mm Material:Aluminum alloy Optional color:AS/AB/PW Type: Standard		
ALC15S01	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		

PC15/21S01-T	Use for : F15 & F21 Length option:1m,2m,35mm Material:Plastic Color: Transparent 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		

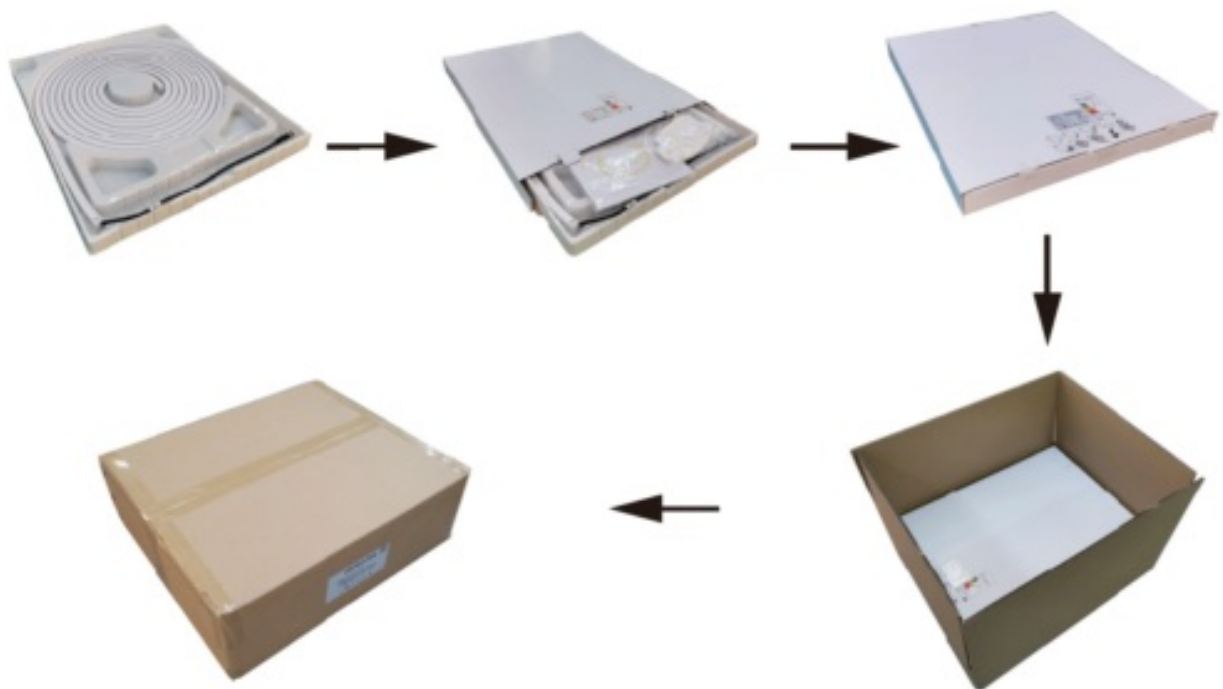
Packing

Standard: Carton (Paper reel inside)



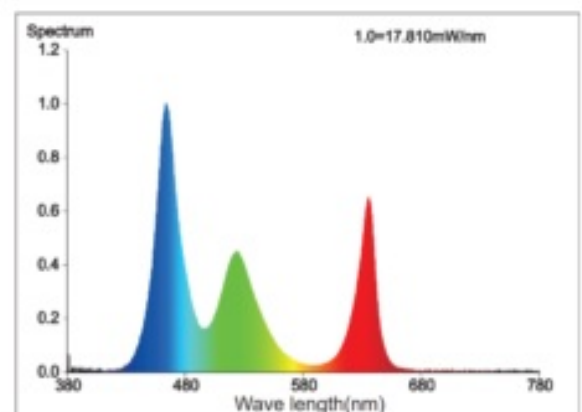
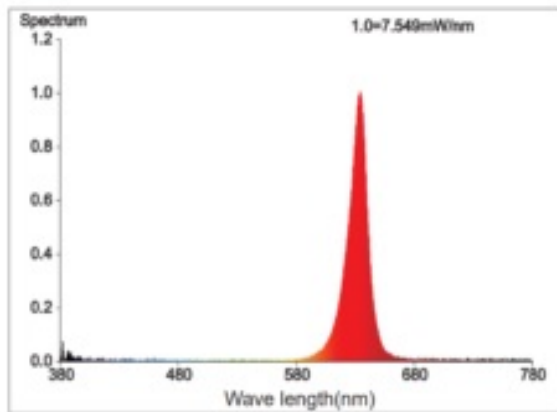
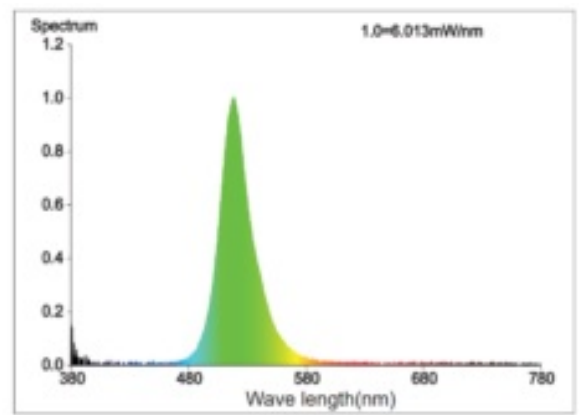
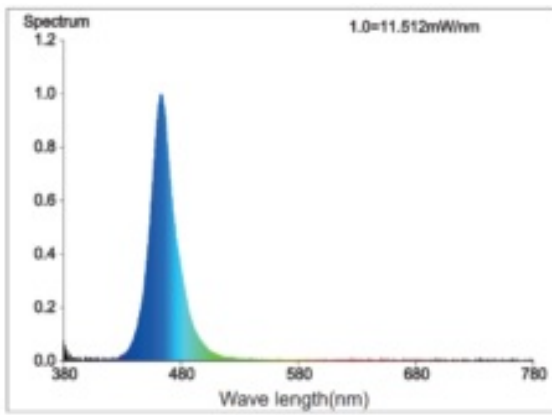
Fixture Length	Paper Reel	Carton Dimension	Gross Weight
787.4in(20m)	D12.99*H6.18in(33*15.7cm)	33*33*18cm	17.63 lbs (8 kg)
787.4in(30m)	D12.99*H6.18in(33*15.7cm)	33*33*18cm	26.45 lbs (12 kg)

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

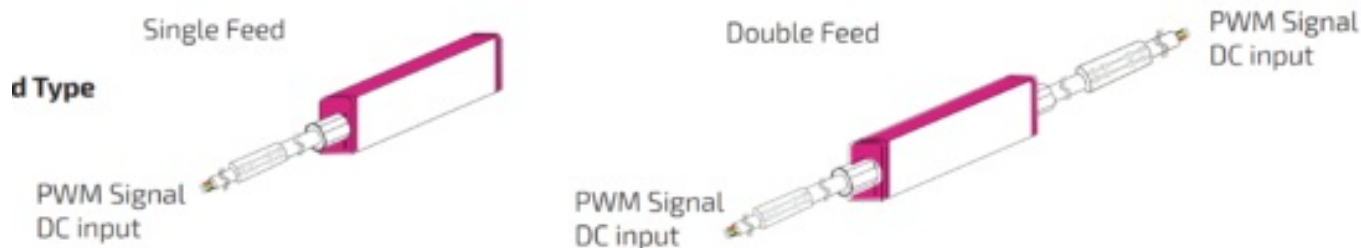


1. Please note it is under normal range if there is 20-30% yellowing of PVC housing material when the product is used under direct sunlight or long-term high temperature & wet enviroment in 3 years.
2. About the tolerance range of optical parameters (luminance, CCT, Watt, RA) for all product, the volume is plus and minus 10% fluctuation refering 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

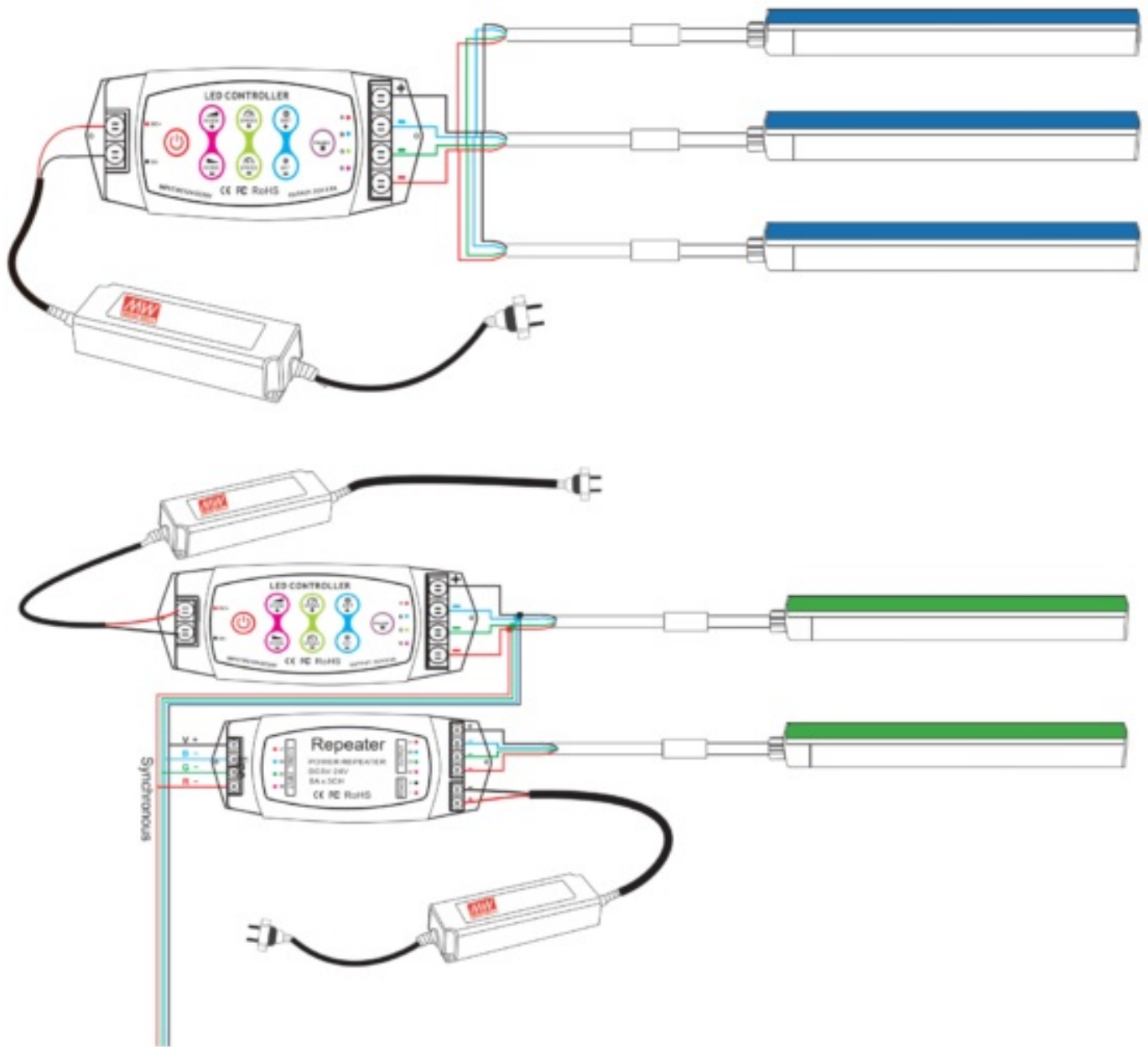
Watts of light	22AWG	20AWG	18AWG	17AWG	16AWG	14AWG	12AWG	10AWG
	0.34mm ²	0.53mm ²	0.82mm ²	1.04mm ²	1.38mm ²	2.07mm ²	3.29mm ²	5.62mm ²
10W	36m	60m	100m	120m	140m	240m	400m	600m
20W	18m	30m	50m	60m	70m	120m	200m	300m
30W	12m	20m	30m	38m	45m	80m	130m	200m
40W	8m	15m	22m	28m	35m	60m	95m	140m
50W	6m	12m	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:

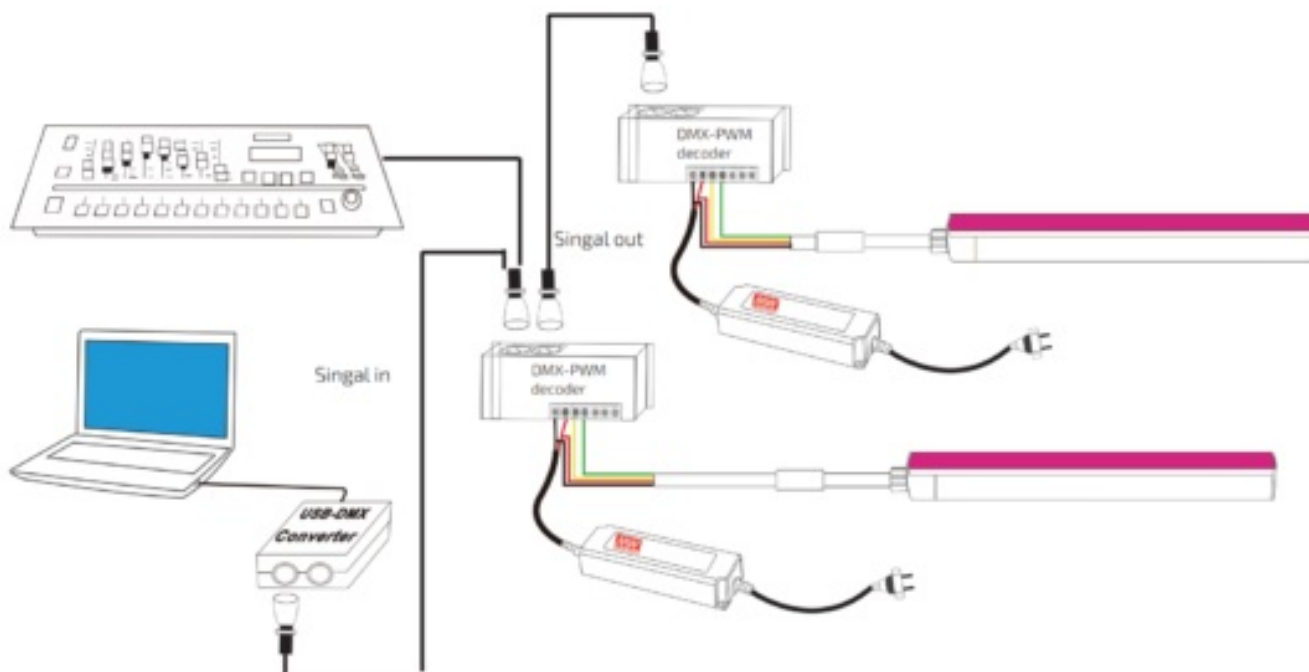
1. The values doesn't include the 0.6m cable connected to the front connector.
2. To ensure the reliability of wire connection and avoid problem of voltage drop, the extension wire length should be smaller than the above recommended values.

Connection Diagram

Connect with CTR-361 PWM controller



Connect with DMX512 controller or DMX Console



For more information

Email: info@olympialed.com

Or visit www.olympialed.com

Lighting OLYMPIA

Documents / Resources

	Lighting Olympia F5 Multi color RGB series LED neon flex [pdf] Installation Guide Multi color RGB, LED neon flex
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References

- [0 Olympia Lighting | Flexible LED Solutions | Outdoor & Architectural – IP68 LED Linear Flex | LED Neon Strip](#)