

NEONLED



F21 Multi Color RGBW Neon flex

Specification

Dimension



Gross weight:
0.52kg/m



Dimmable:
DALI, PWM, DMX



Installation Temp.:
0°C to +55°C



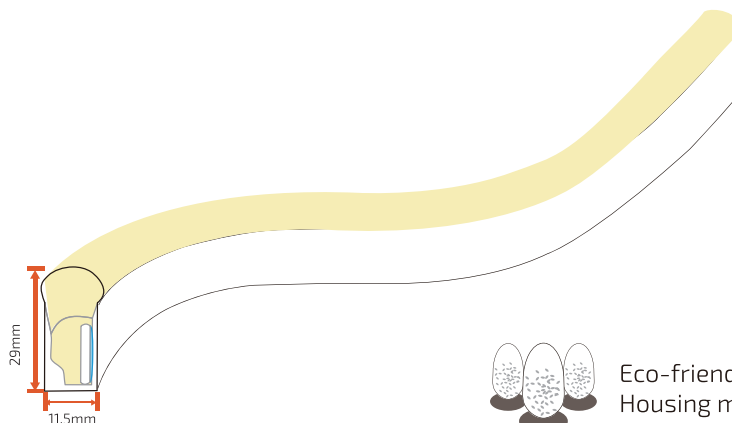
Ambient Temp.:
-25°C to +55°C



Min. Bending :
120mm



Beam Angle :
270 degree



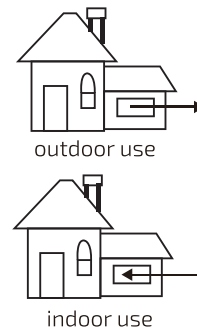
Eco-friendly PVC
Housing material

Features

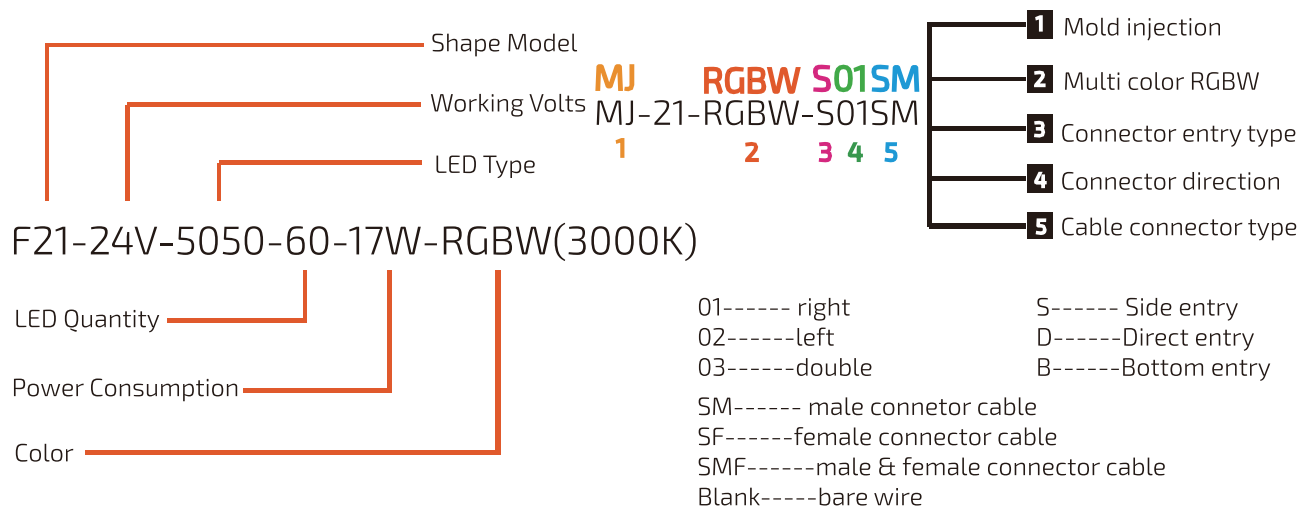
Uniform and even light output
Dome surface with 270 degree beam angle
2200K/3000K/4000K white color optional
Dimmable with Dali, DMX,PWM
Full encapsulated with IP68 Level
High Reliability
3 or 5 Years warranty

Applications

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



Model Encoding



Technical Specification

Model	F21-24V-5050-60-RGBW	F21-24V-5050-72-RGBW	F21-12V-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		
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
2200K	2238± 102K
3000K	3045± 175K
4000K	3985± 275K

Lumen Output

F21-24V-5050-60-RGBW(3000K)

Red Color

Lumen : >35lm/m

3000K

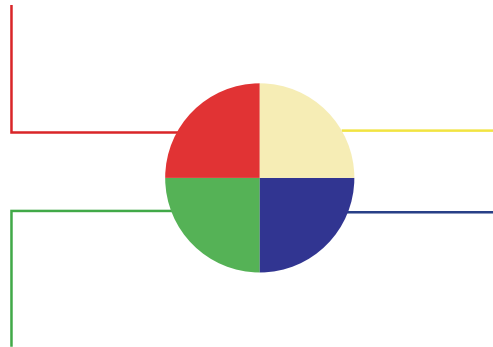
Lumen : >35lm/m

Green Color

Lumen : >100lm/m

Blue Color

Lumen : >25lm/m

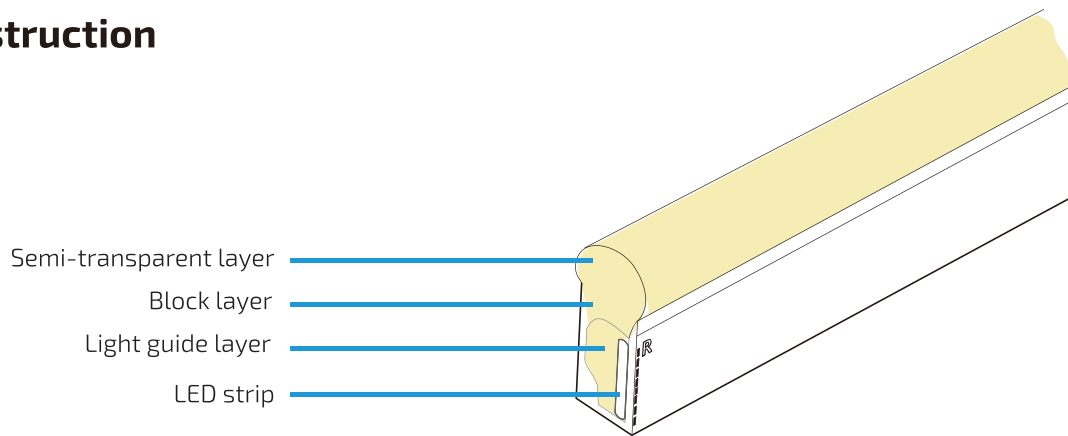


[For more information](#)

Email: info@neonled.sk

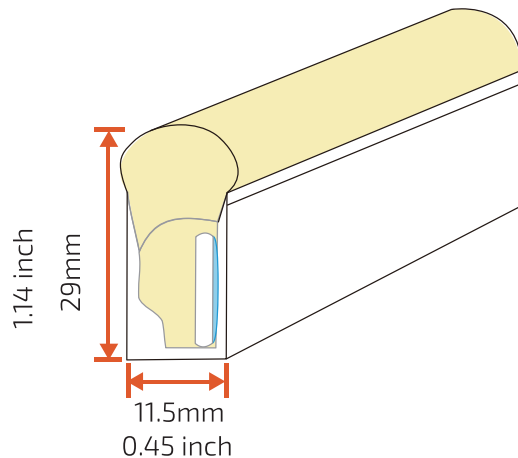
Or visit www.neonled.sk

Construction

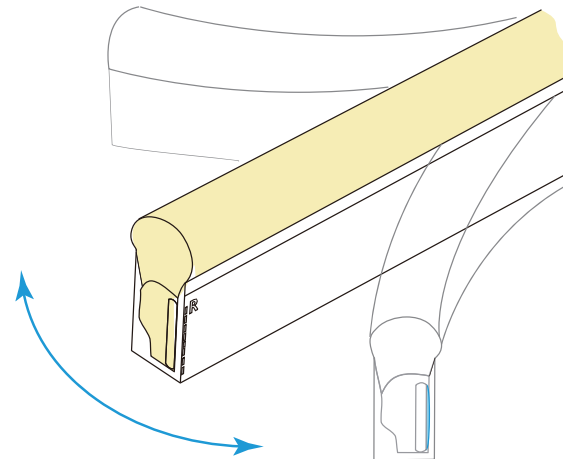


Physical Specification

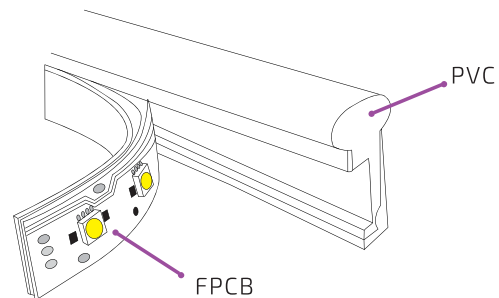
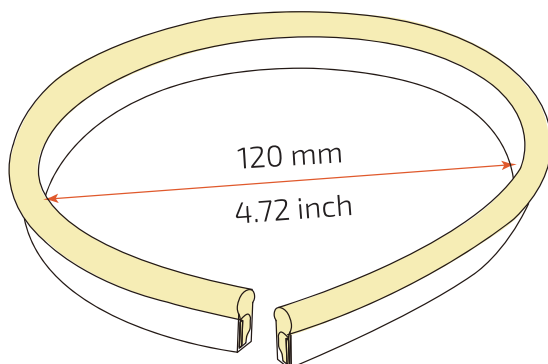
Light profile



Bending direction

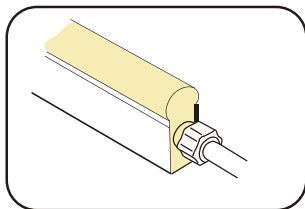


Min. bending diameter

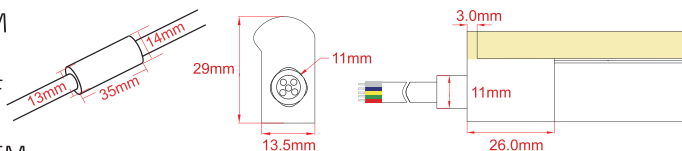


Mold injection connector

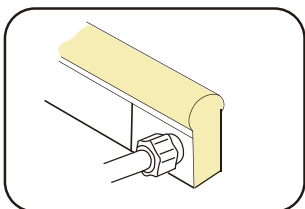
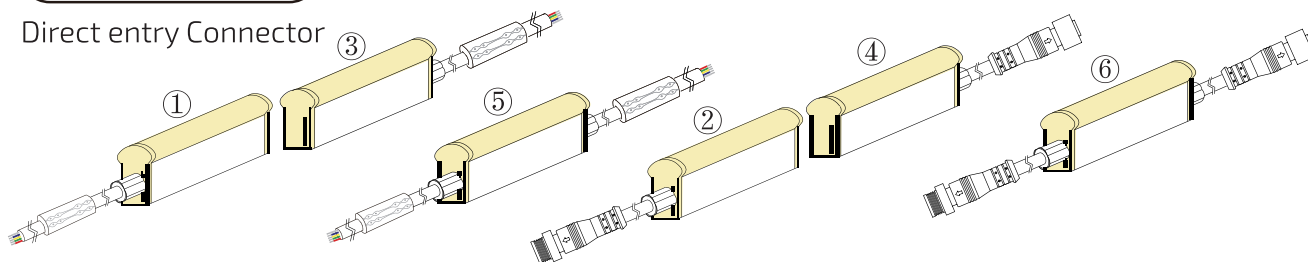
(IP68 Factory Assembly only)



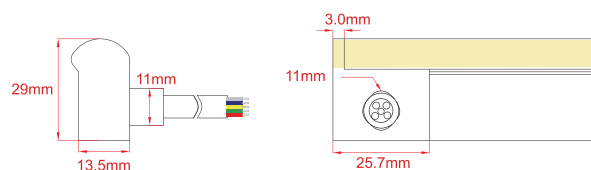
- ① MJ-Z1-RGBW-D01
- ② MJ-Z1-RGBW-D01SM
- ③ MJ-Z1-RGBW-D02
- ④ MJ-Z1-RGBW-D02SF
- ⑤ MJ-Z1-RGBW-D03
- ⑥ MJ-Z1-RGBW-D03SFM



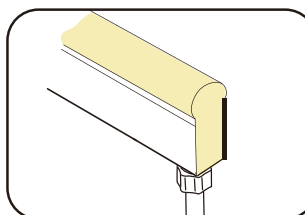
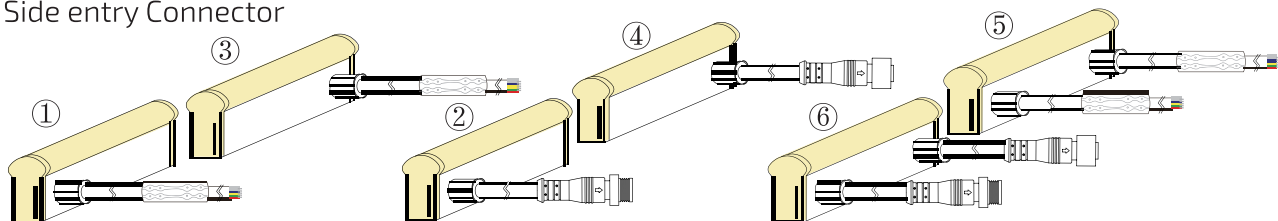
Direct entry Connector



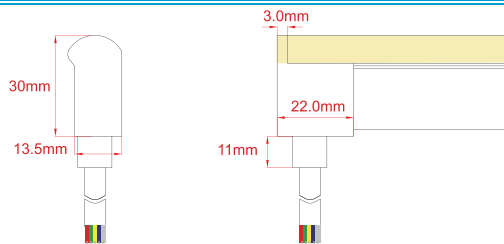
- ① MJ-Z1-RGBW-S01
- ② MJ-Z1-RGBW-S01SM
- ③ MJ-Z1-RGBW-S02
- ④ MJ-Z1-RGBW-S02SF
- ⑤ MJ-Z1-RGBW-S03
- ⑥ MJ-Z1-RGBW-S03SFM



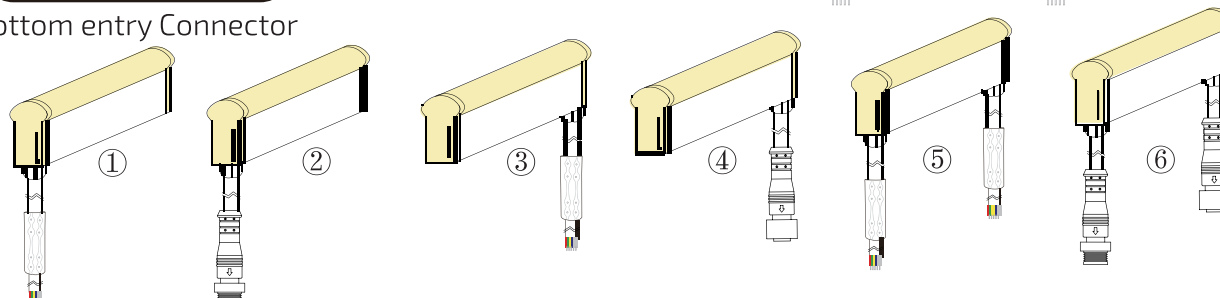
Side entry Connector



- ① MJ-Z1-RGBW-B01
- ② MJ-Z1-RGBW-B01SM
- ③ MJ-Z1-RGBW-B02
- ④ MJ-Z1-RGBW-B02SF
- ⑤ MJ-Z1-RGBW-B03
- ⑥ MJ-Z1-RGBW-B03SFM



Bottom entry Connector

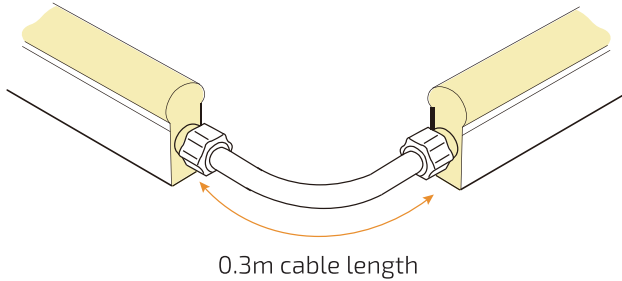


For more information

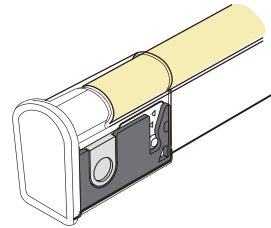
Email: info@neonled.sk

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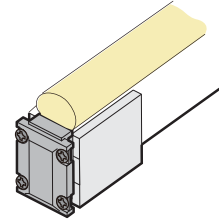
Mold injection Jumper
(IP68 Factory Assembly only)



(IP67 Only)



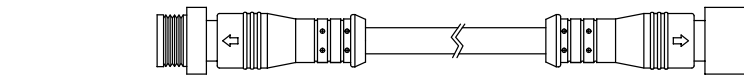
DIY snap end cap
DIY-SN-END-01/02-21



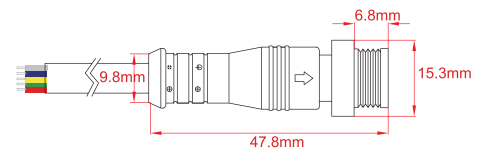
DIY screw end cap
DIY-SC-END-15

Other Accessories

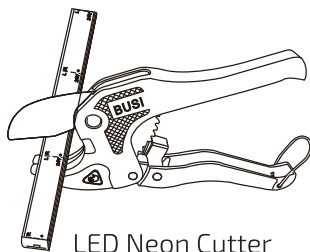
Female & Male Connector



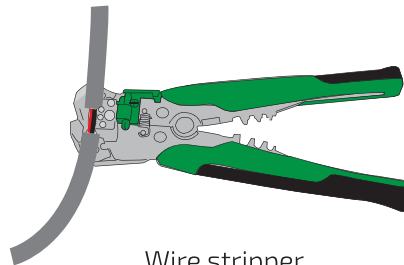
Female connector wire
SYZ-M12-F-5C-05-W



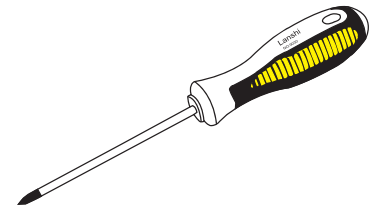
Male connector wire
SYZ-M12-M-5C-05-W



LED Neon Cutter
ACC-TOOL-C1



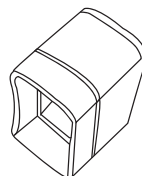
Wire stripper
ACC-TOOL-WS01



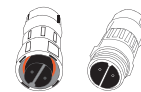
Screwdriver
ACC-TOOL-C2



Silicone Rubber
K-5905



PVC End Cap
DIY-PVC-END-15



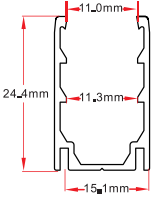
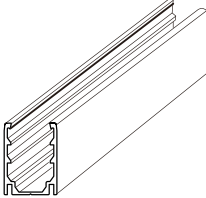
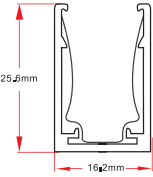
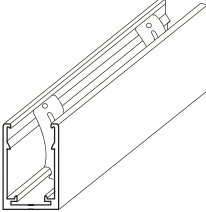
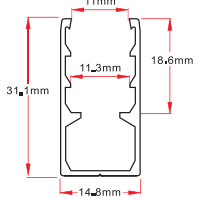
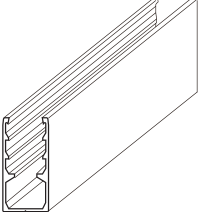
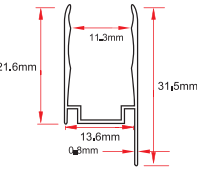
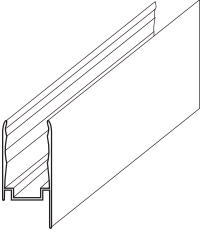
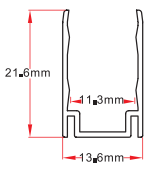
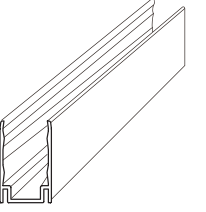
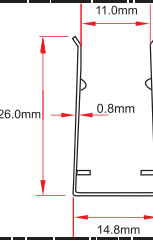
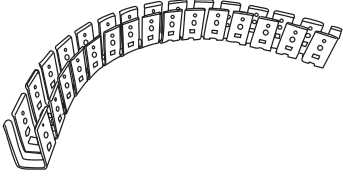
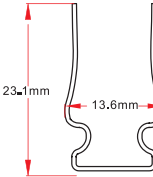
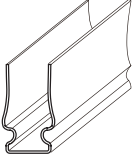
Female & male wire connector
KJ-M12-5P-F/ KJ-M12-5P-M

For more information

Email: info@neonled.sk

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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

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Packing

Standard: Carton (Paper reel inside)



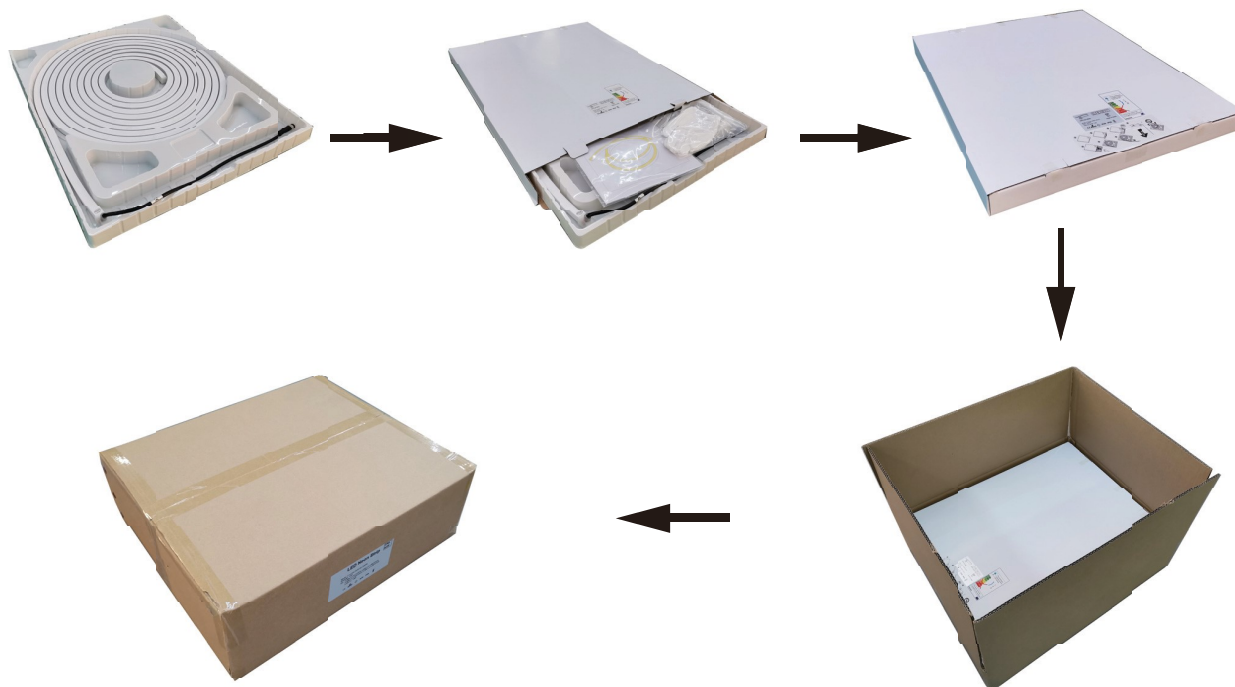
Fixture Length
787.4in(20m)

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)



F21 Multi color RGBW led neon flex

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.

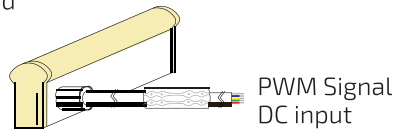
Loading Chart

Power supply

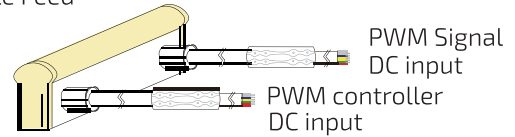
Rated power	35W	60W	75W	80W	100W	120W	150W	185W	240W	320W
17W	1.5m	2.5m	3.5m	3.8m	4.5m	5.5m	7m	8.5m	10m	/

Lead Type

Single Feed



Double Feed



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:

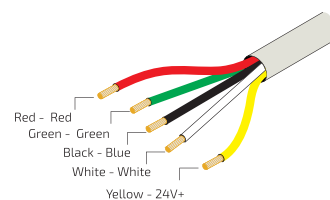
- 1.The values doesn't include the 0.6m cable connected to the front connector.
- 2.To ensure the reliability of wire connection and avoid problem of voltage drop, the extension wire length should be smaller than the above recommended values.

[For more information](#)

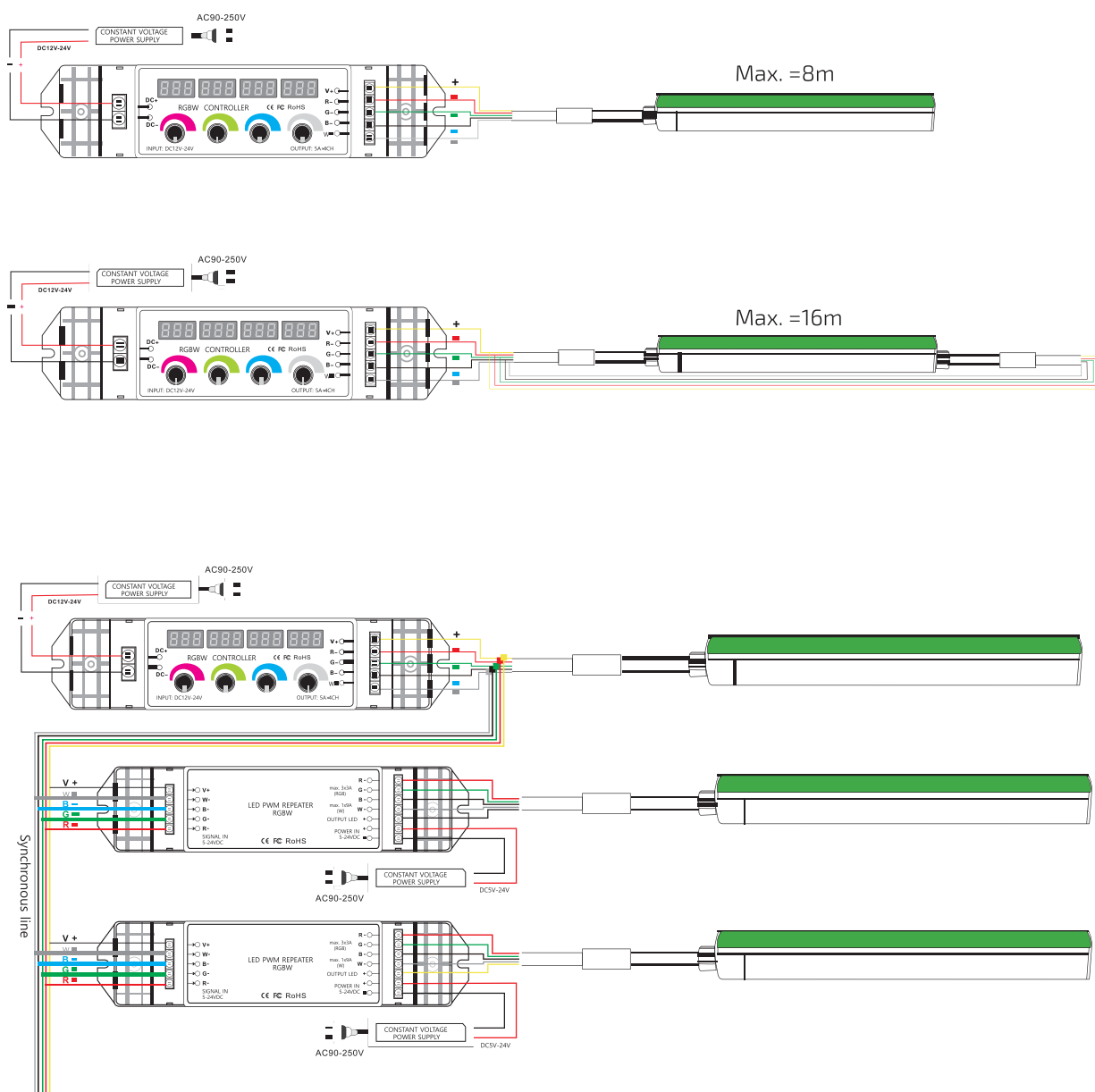
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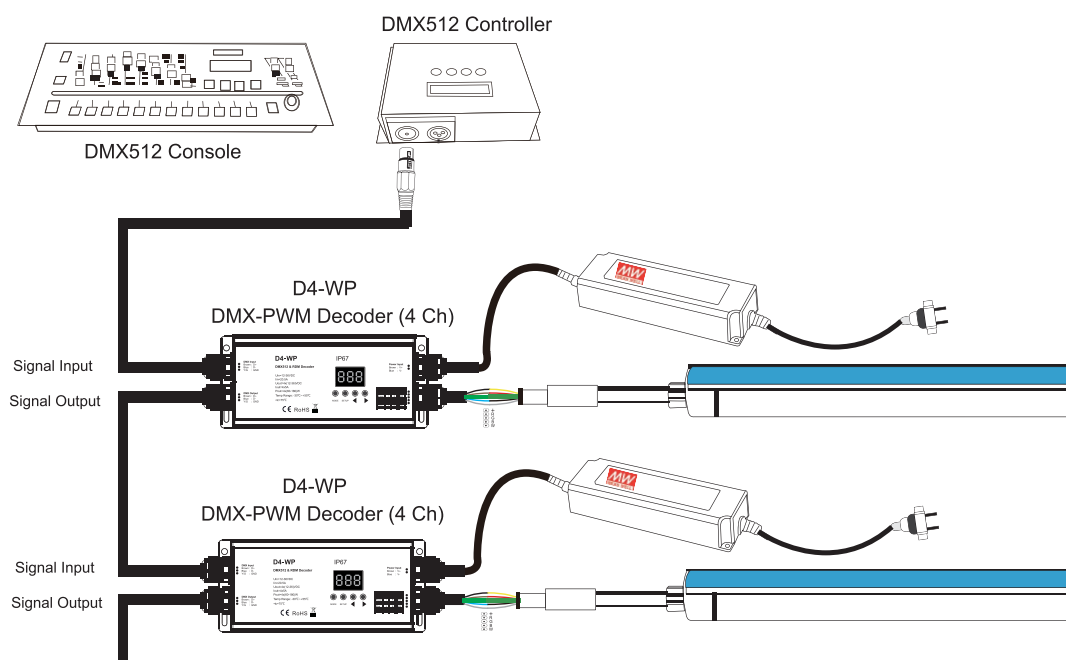
Connection diagram



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



Connection with DMX512 console or DMX512 Controller



Connection with DALI control Systems

