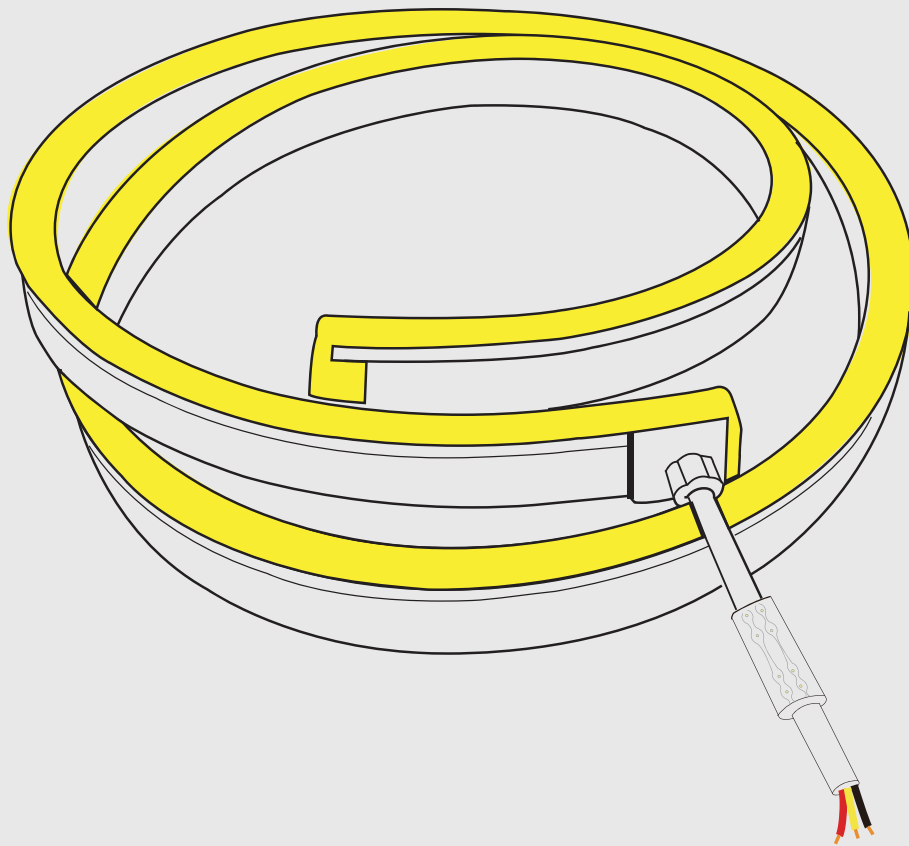


NEONLED



F15 Tunable white Neon Flex

Specification

Dimension



Gross weight:
0.4kg/m



Dimmable:
DALI, PWM, DMX, Triac



Installation Temp.:
0°C to +55°C



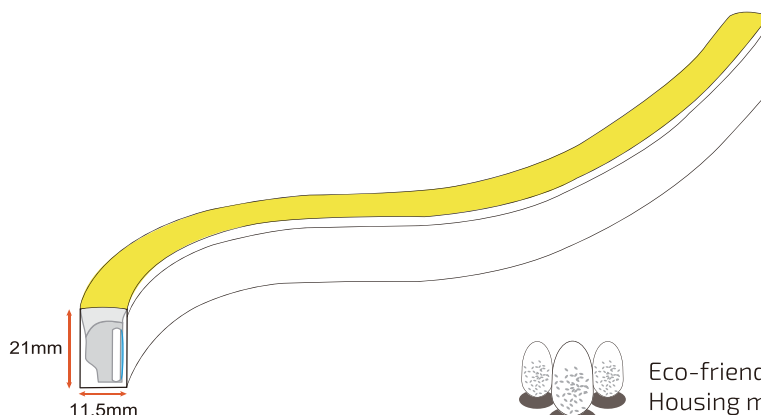
Ambient Temp.:
-25°C to +55°C



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

Dimmable with Dali, PWM, DMX, Triac

Available color both warm white and cold white

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



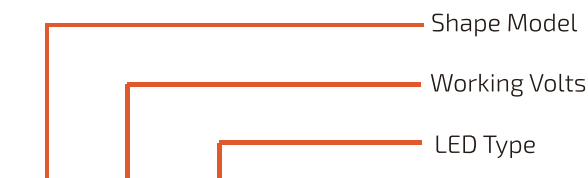
outdoor use



indoor use



Model Encoding



F15-24V-2835-120-12W-DW

LED Quantity

Power Consumption

Color or CCT

MJ DW S01SM
MJ-15-DW-S01SM
1 2 3 4 5

- 1 Mould injection
- 2 Turnable white
- 3 Connector entry type
- 4 Connector direction
- 5 Cable connector type

01----- right

02-----left

03-----double

SM----- male connector cable

SF-----female connector cable

SMF-----male & female connector cable

Blank----- bare wire

S----- Side entry

D-----Direct entry

B-----Bottom entry

Technical Specification

Model	F15-24V-2835-120-DW
Operating voltage	24V
Power consumption	15W/M
Working Mode	PWM CV
LED type	SMD2835
LED Quantity	120 pcs/m
Available Color	2200K/2700K/3000K+5700K
Min. cutting Unit	12 LEDs
Min. cutting length	10cm
Max. length single feed	10m
Max. length double feed	20m
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

Color Combination

warm white

cold white



+



.....

2200K+5700K



+



.....

2700K+5700K



+



.....

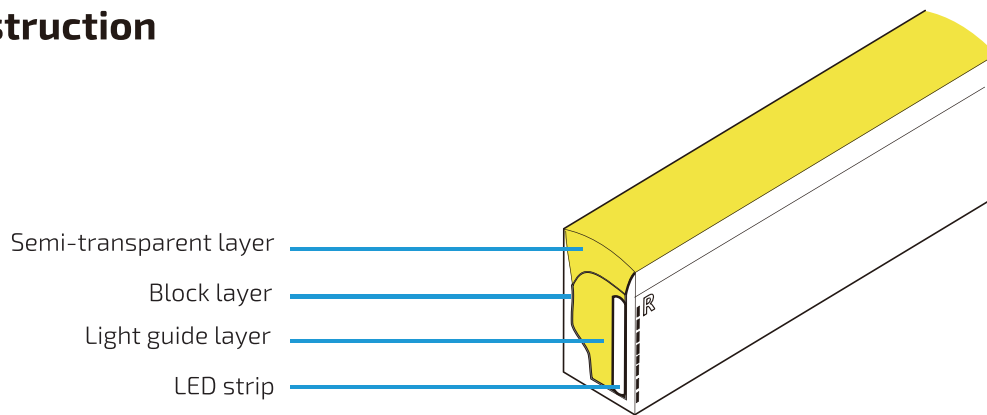
3000K+5700K

[For more information](#)

Email: info@neonled.sk

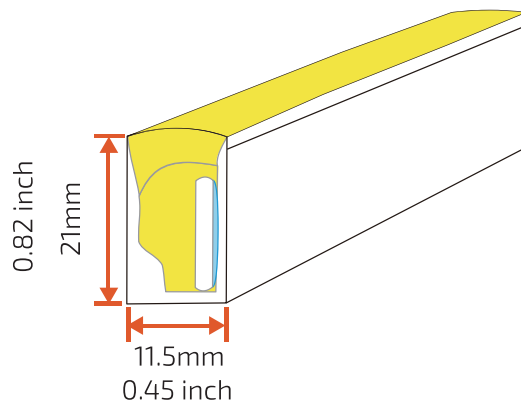
Or visit www.neonled.sk

Construction

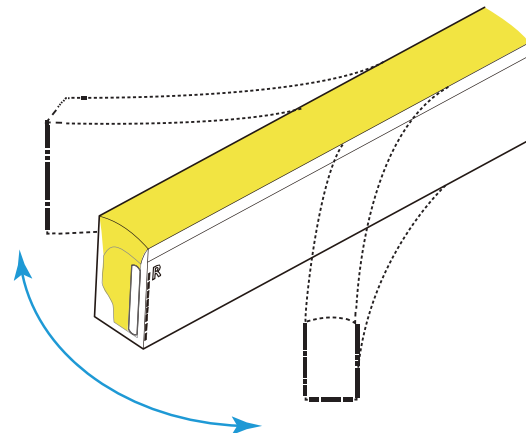


Physical Specification

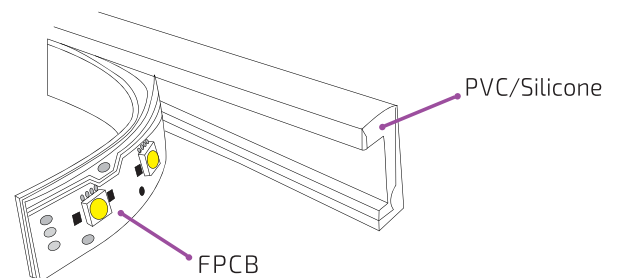
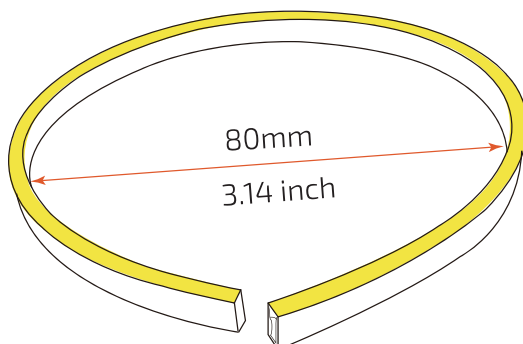
Light profile



Bending direction



Min. bending diameter



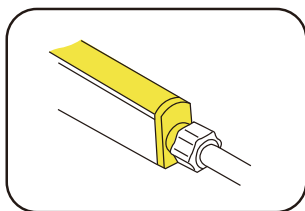
[For more information](#)

Email: info@neonled.sk

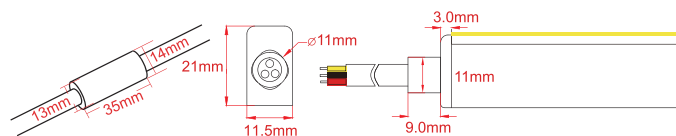
Or visit www.neonled.sk

Mold injection connector

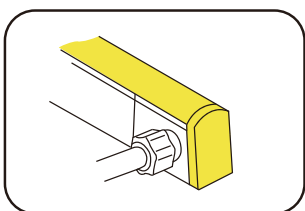
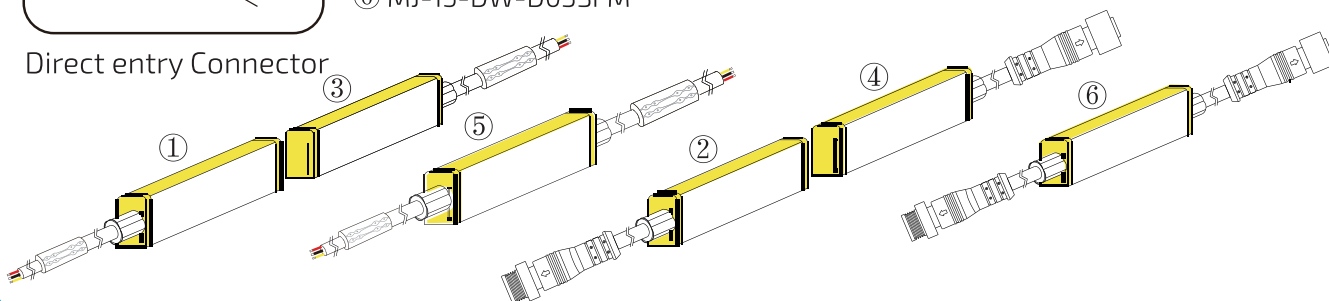
(IP68 Factory Assembly only)



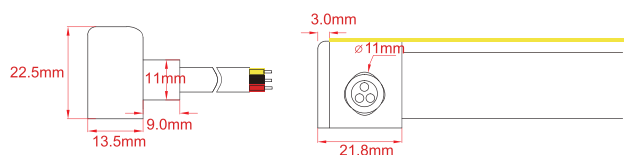
- ① MJ-15-DW-D01
- ② MJ-15-DW-D01SM
- ③ MJ-15-DW-D02
- ④ MJ-15-DW-D02SF
- ⑤ MJ-15-DW-D03
- ⑥ MJ-15-DW-D03SFM



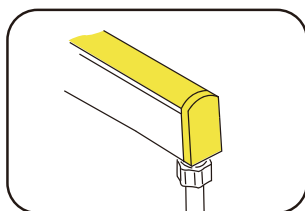
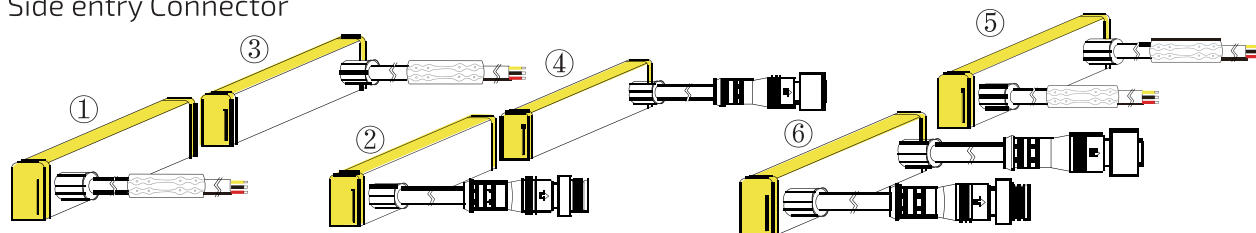
Direct entry Connector



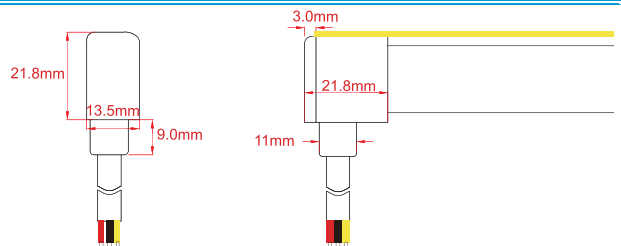
- ① MJ-15-DW-S01
- ② MJ-15-DW-S01SM
- ③ MJ-15-DW-S02
- ④ MJ-15-DW-S02SF
- ⑤ MJ-15-DW-S03
- ⑥ MJ-15-DW-S03SFM



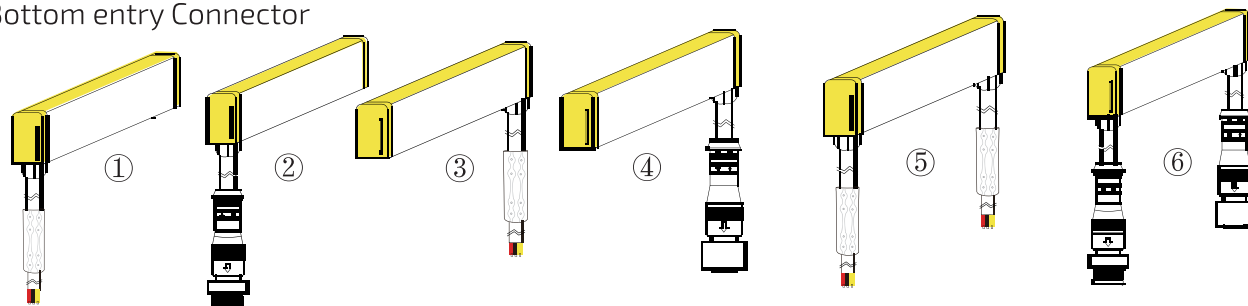
Side entry Connector



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



Bottom entry Connector



For more information

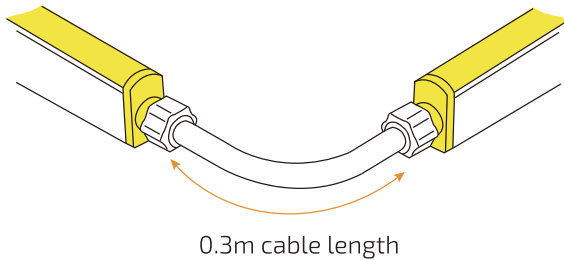
Email: info@neonled.sk

Or visit www.neonled.sk

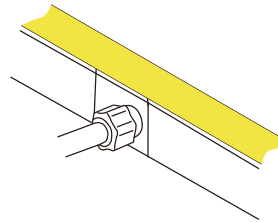
Mold injection connector

(IP68 Factory Assembly only)

Mold injection Jumper

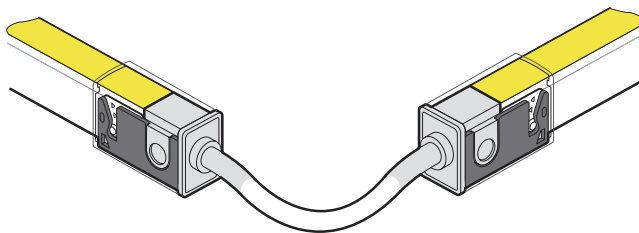


Middle injection Connector

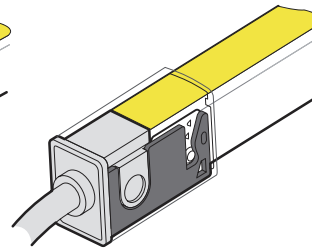


DIY Snap Front Connector & End Cap Kit (IP67 Only)

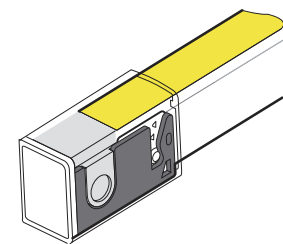
DIY snap splice connector kit



DIY snap connector kit



DIY snap front connector



DIY snap end cap

Type	Model
Middle injection Connector	MJ-15-DW-M01-06
DIY snap splice connector	DIY-SC-Middle-15
DIY snap front connector	DIY-SN-FR-15-D-01/02-D3
DIY snap end cap kit	DIY-SN-END-01/02-15

Noted:
01- Right direction
02- Left direction

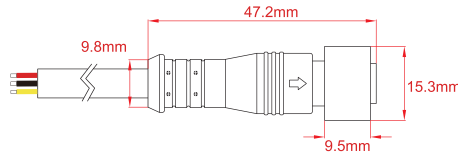
[For more information](#)

Email: info@neonled.sk

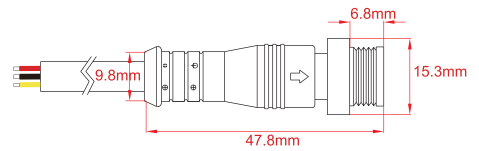
Or visit www.neonled.sk

Other Accessories

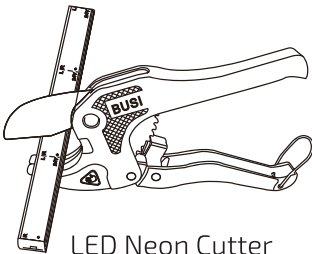
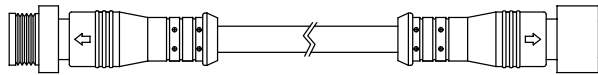
Female & Male Connector



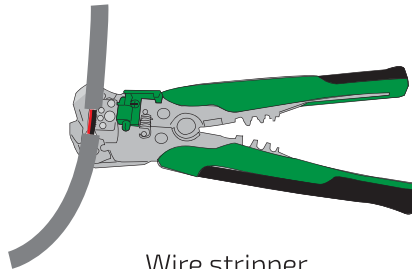
Female connector wire
SYZ-M12-F-3C-05-W



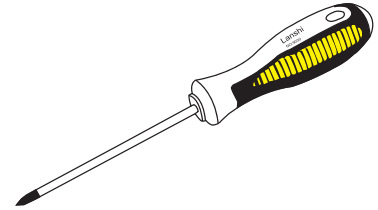
Male connector wire
SYZ-M12-M-3C-05-W



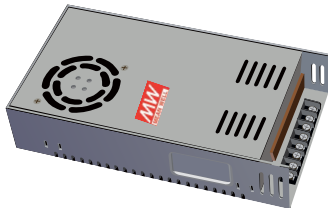
LED Neon Cutter
ACC-TOOL-C1



Wire stripper
ACC-TOOL-WS01



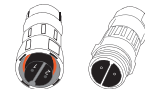
Screwdriver
ACC-TOOL-C2



Mean Well Transformer
Non-waterproof Series



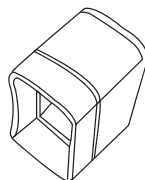
Mean Well Transformer
Waterproof Series



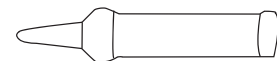
Female & male wire connector
KJ-M12-3P-F/ KJ-M12-3P-M



Silicone Rubber
K-5905



PVC End Cap
DIY-PVC-END-15



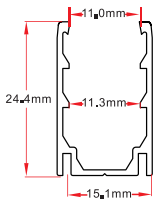
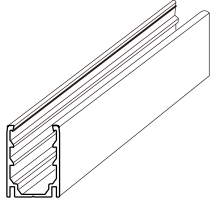
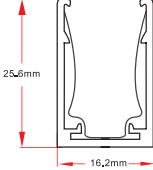
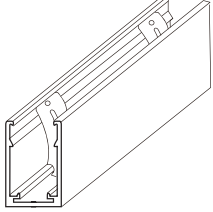
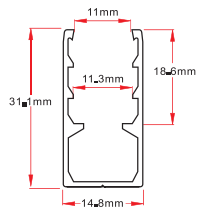
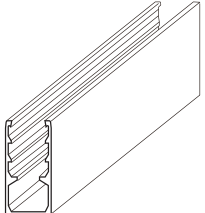
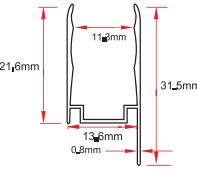
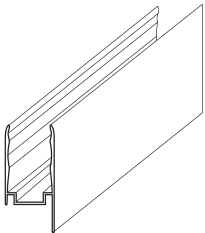
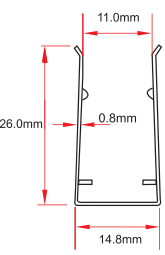
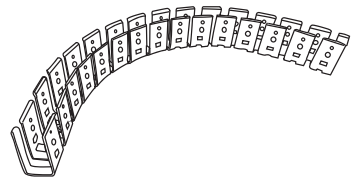
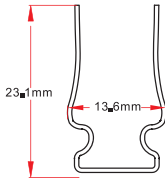
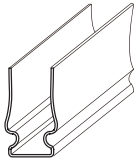
Assistant Tool
ACC-TOOL-C3

For more information

Email: info@neonled.sk

Or visit 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		
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

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

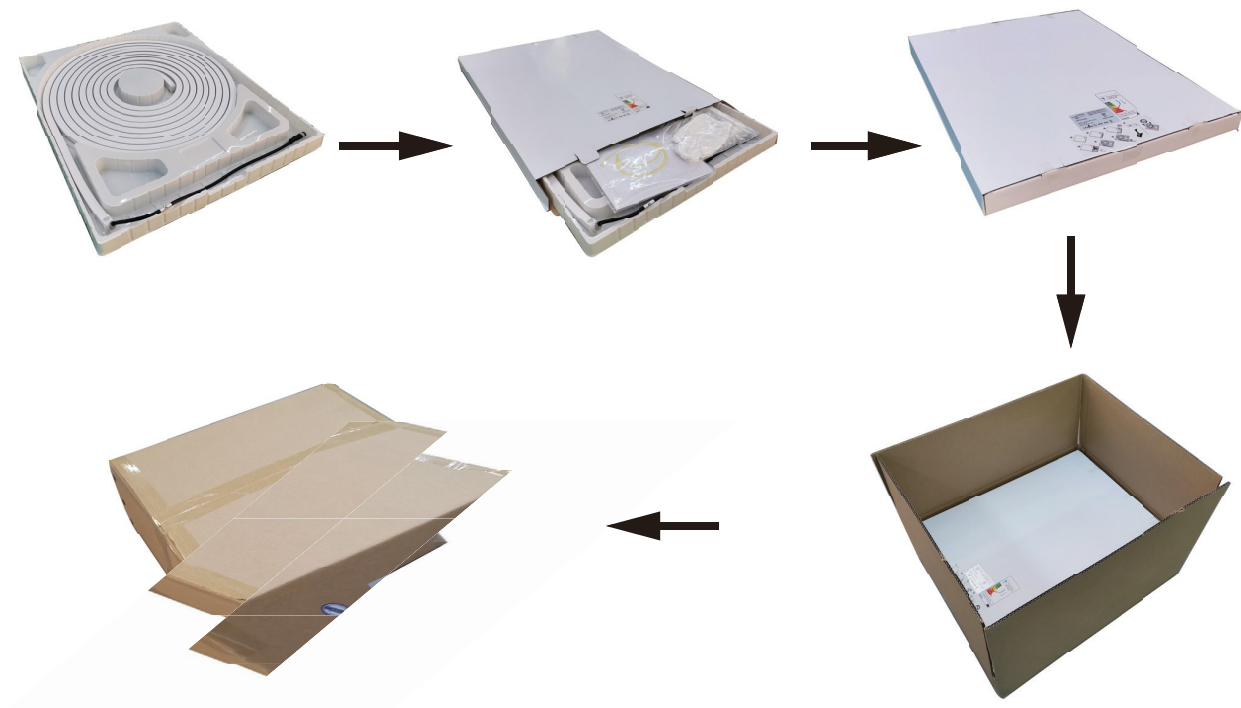
33*33*18cm

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)

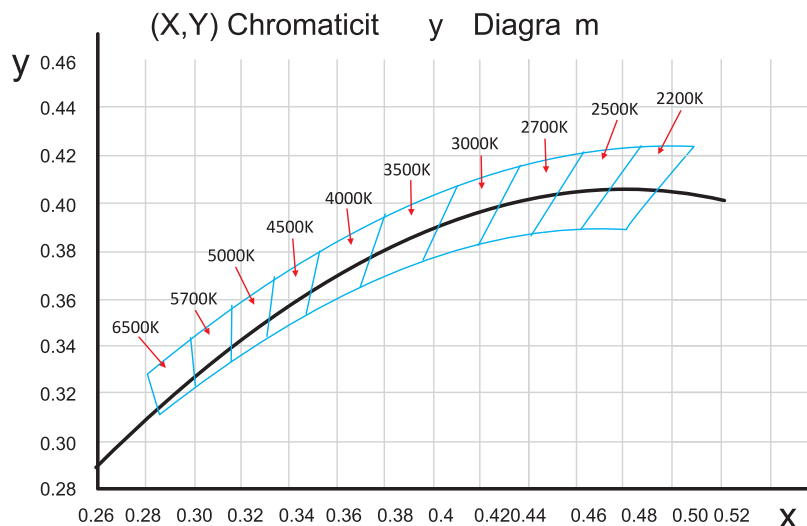
Testing

ANSI Standard

Nominal CCT Categories (2200-6500K)

Nominal CCT	Target CCT & tolerance(K)	Target D_{uv}	D_{uv} Tolerance Range
2200K	2238±102	0.0000	T_x : CCT of the source for $T_x < 2870K$ 0.000 ± 0.0060
2500K	2460±120	0.0000	For $T_x \geq 2870K$ $D_{uv}(T_x) \pm 0.0060$
2700K	2725±145	0.0000	where
3000K	3045±175	0.0001	$D_{uv}(T_x) = 57700x(1/T_x)^2$ $-44.6x(1/T_x)$ $+0.00854$
3500K	3465±245	0.0005	Remark:
4000K	3985±275	0.0010	1) T_F is chosen to be at 100K steps (2300,2400.....6400K) the ten nominal CCTs listed in table 1.
4500K	4503±243	0.0015	2) $\Delta T = 1.1900 \times 10^8 \times T^{-3}$ $1.5434 \times 10^4 \times T^{-2} + 0.71648 \times T - 902.55$
5000K	5029±283	0.0020	3) Same as in the DUV tolerance range
5700K	5667±355	0.0025	
6500K	6532±510	0.0031	
Flexible CCT	$T_F^{(1)} \pm \Delta T^{(2)}$	$D_{uv} T_F^{(3)}$	

White Color Charts



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±7mm, 5.1-10M±15mm, 10.1-20M±30mm.

[For more information](#)

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Loading Chart

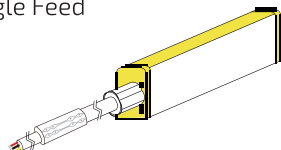
Power supply

Rated power	35W	60W	75W	80W	100W	120W	150W	185W	240W	320W
15W	1.5m	3m	4m	4.2m	5m	6m	8m	9.8m	12.5m	17m

Lead Type

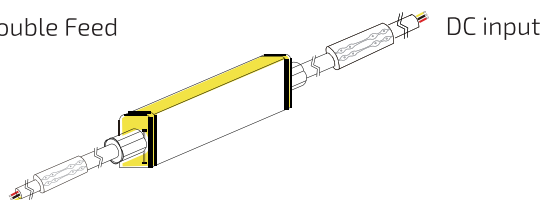
Single Feed

DC input



Double Feed

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 4.2m at 15W/m.

Recommendation of extension wire

Maximum extension wire length according to Light power

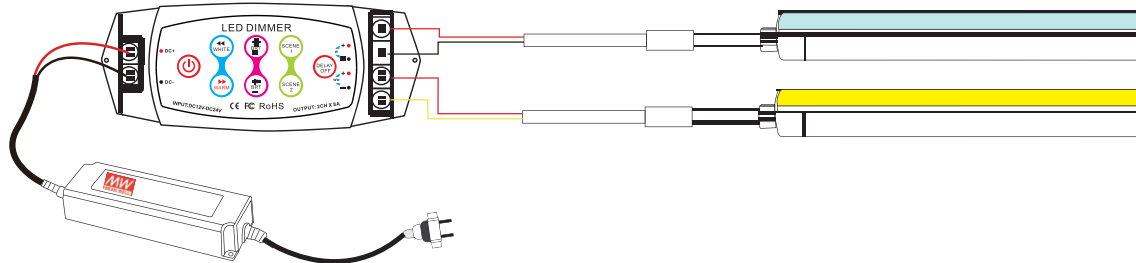
Watts of light	22AWG 0.34mm ²	20AWG 0.53mm ²	18AWG 0.82mm ²	17AWG 1.04mm ²	16AWG 1.38mm ²	14AWG 2.07mm ²	12AWG 3.29mm ²	10AWG 5.62mm ²
10W	36m	60m	100m	120m	140m	240m	400m	600m
20W	18m	30m	50m	60m	70m	120m	200m	300m
30W	12m	20m	30m	38m	45m	80m	130m	200m
40W	8m	15m	22m	28m	35m	60m	95m	140m
50W	6m	12m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

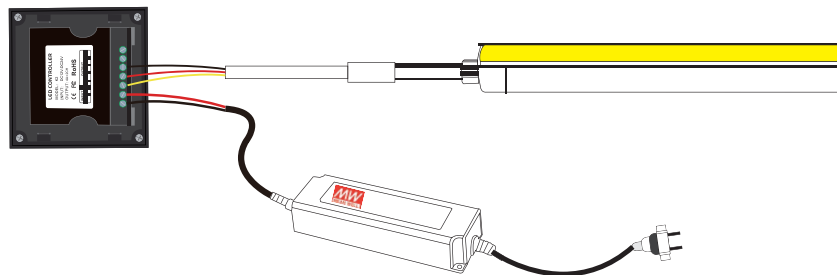
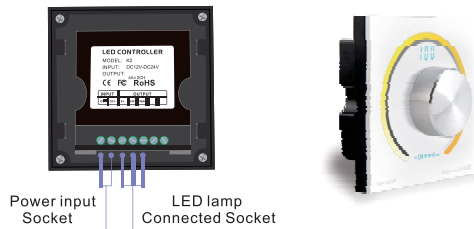
- 1.The values doesn't include the 0.6m cable connected to the front connector.
- 2.To ensure the reliability of wire connection and avoid problem of voltage drop, the extension wire length should be smaller than the above recommended values.

Controller Diagram

BC-310 LED CCT Controller



K2 CCT Rotary Controller



BC-422 Constant Voltage CCT Controller

