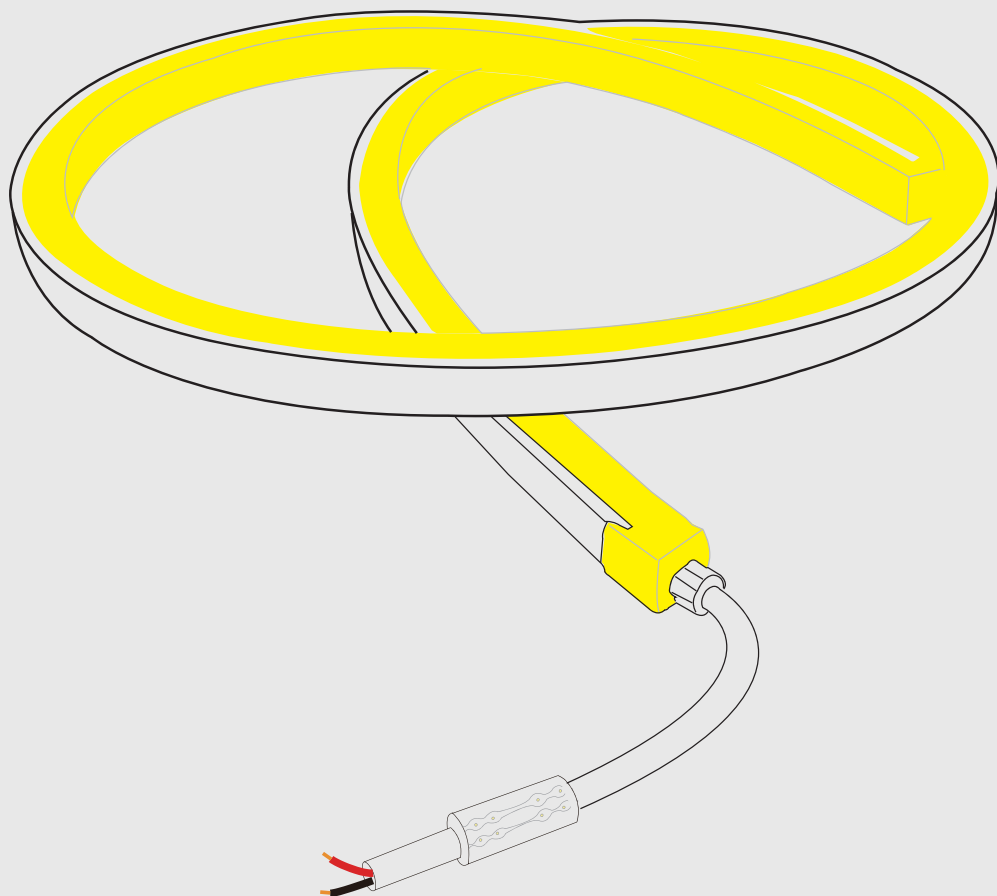


NEONLED



F18 Mono Color Series Neon flex

Specification

Dimension



Gross weight:
0.43kg/m



Dimmable:
DALI, 0-10V, DMX, Triac



Installation Temp.:
0°C to +55°C



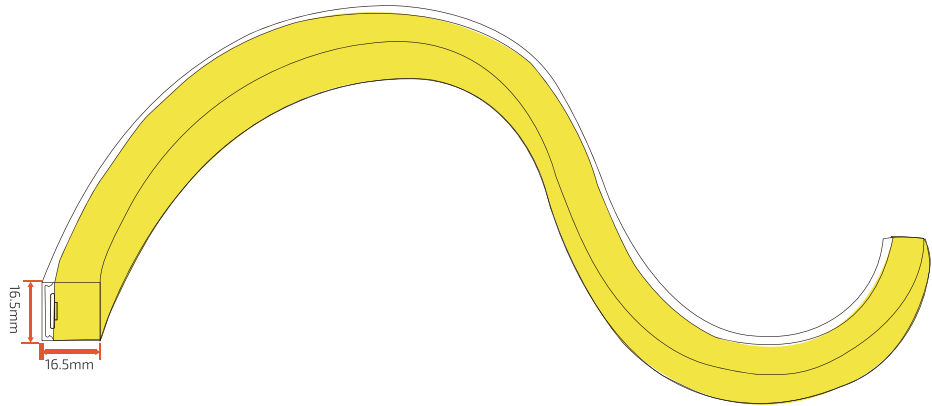
Ambient Temp.:
-25°C to +55°C



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
- Constant Current IC built in optional
- Dimmable with Dali, 0/1-10, DMX,PWM, Triac
- High Lumen output, up to 600lm/m for 10W version
- 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

Shape Model
Working Volts
LED Type

F18-24V-3528-144-10W-3000K

LED Quantity
Power Consumption
Color or CCT

MJ A S01SM
MJ-18-A-S01SM
1 2 3 4 5

- 1 Mold injection
- 2 Mono color
- 3 Connector entry type
- 4 Connector direction
- 5 Cable connector type

01----- right
02-----left
03-----double

S----- Side entry
D-----Direct entry
B-----Bottom entry

SM----- male connetor cable
SF-----female connector cable
SMF-----male & female connector cable
Blank-----bare wire

For more information

Email: info@neonled.sk

Or visit www.neonled.sk



F18 Mono color series led neon flex

Technical Specification

Model	F18-24V-3528-120	F18-24V-3258-144	F18-24V-2835-120-CC	F18-24V-2835-128
Operating voltage	24V	24V	24V	24V
Power consumption	9W/M	10W/M	10W/M	8W/M
Working Mode	CV	CV	CC	CV
LED type	SMD3528	SMD3528	SMD2835	SMD2835
LED Quantity	120 pcs/m	144 pcs/m	120 pcs/m	128 pcs/m
Available CCT	2200-6500K	2200-6500K	2200-6500K	2200-6500K
Available Color	G/B/R/P/A/O	G/B/R/P/A/O	G/B/P/LY	G/B/P/LY
Min. cutting Unit	12 LEDs	12 LEDs	6 LEDs	16 LEDs
Min. cutting length	10cm	8.33cm	5.0cm	12.5cm
Max. length single feed	10m	10m	15m	10m
Max. length double feed	20m	20m	30m	20m
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)	620-630nm
Green (G)	520-530nm
Blue (B)	465-475nm
Amber (A)	585-595nm
Orange (O)	600-610nm
Pink (P)	630-645nm
2200K	2238± 102K
2500K	2460± 120K
2700K	2725± 145K
3000K	3045± 175K
3500K	3465± 245K
4000K	3985± 275K
4500K	4503± 243K
5000K	5029± 283K
5700K	5669± 355K
6500K	6532± 510K

Lumen output

Model: F18-24V-3528-144-10W

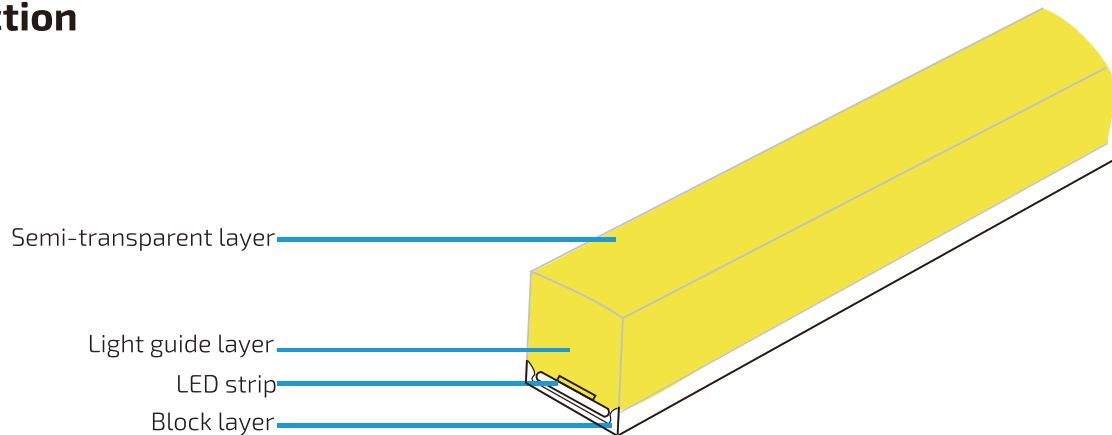
Color or CCT	Per foot	Per meter	Power consumption
Red	>76.21lm	>250lm	3.04W/ft (10W/M)
Green	>146.34lm	>480lm	3.04W/ft (10W/M)
Blue	>64.02lm	>210lm	3.04W/ft (10W/M)
Amber	>79.26lm	>260lm	3.04W/ft (10W/M)
Orange	>73.17lm	>240lm	3.04W/ft (10W/M)
Pink	>109.75lm	>360lm	3.04W/ft (10W/M)
2200K	>161.58lm	>530lm	3.04W/ft (12W/M)
2500K	>161.58lm	>530lm	3.04W/ft (10W/M)
2700K	>167.68lm	>550lm	3.04W/ft (10W/M)
3000K	>167.68lm	>550lm	3.04W/ft (10W/M)
3500K	>173.78lm	>570lm	3.04W/ft (10W/M)
4000K	>173.78lm	>570lm	3.04W/ft (10W/M)
4500K	>173.78lm	>570lm	3.04W/ft (10W/M)
5000K	>182.92lm	>600lm	3.04W/ft (10W/M)
5700K	>182.92lm	>600lm	3.04W/ft (10W/M)
6500K	>182.92lm	>600lm	3.04W/ft (10W/M)

[For more information](#)

Email: info@neonled.sk

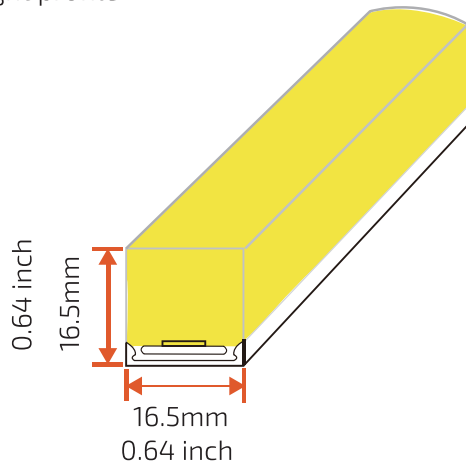
Or visit www.neonled.sk

Construction

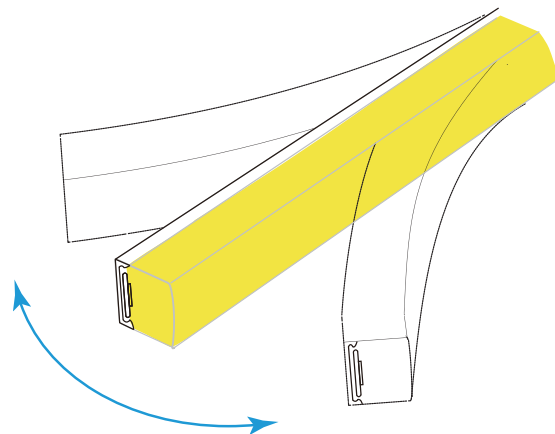


Physical Specification

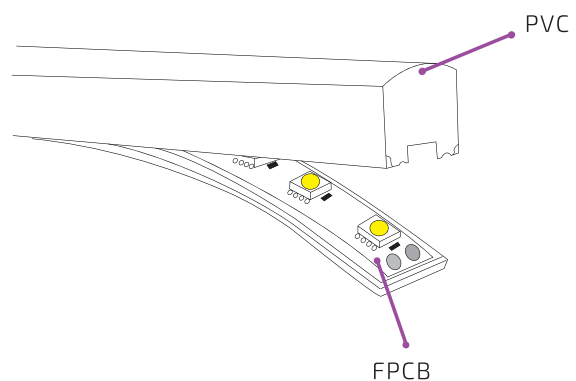
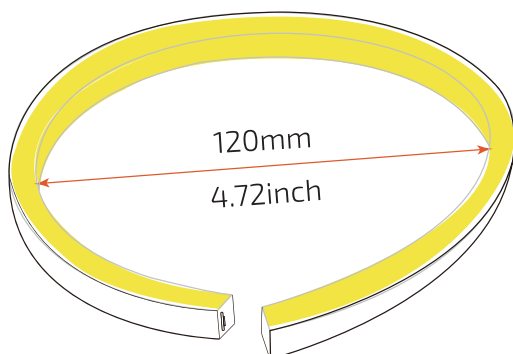
Light profile



Bending direction



Min. bending diameter



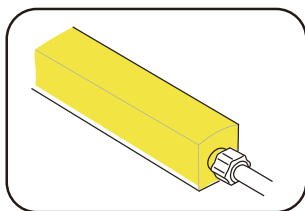
[For more information](#)

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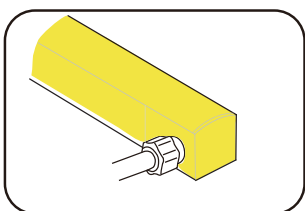
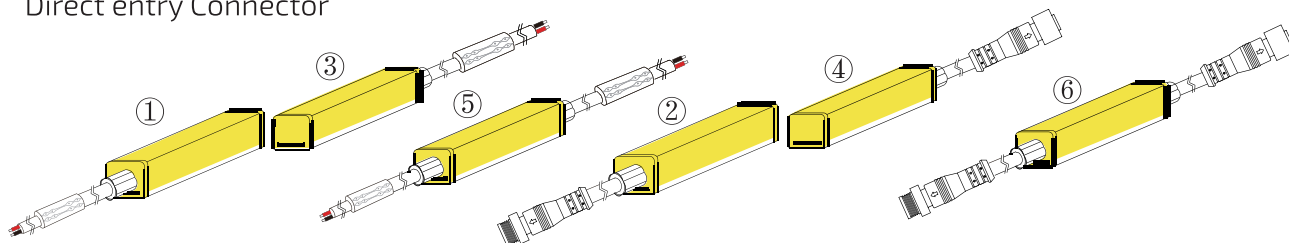
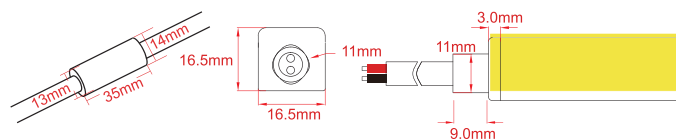
Mold injection connector

(IP68 Factory Assembly only)



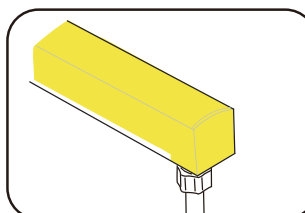
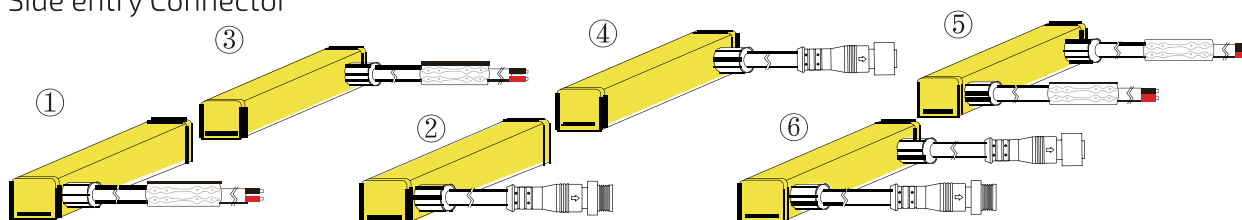
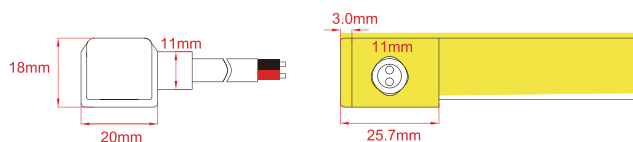
Direct entry Connector

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



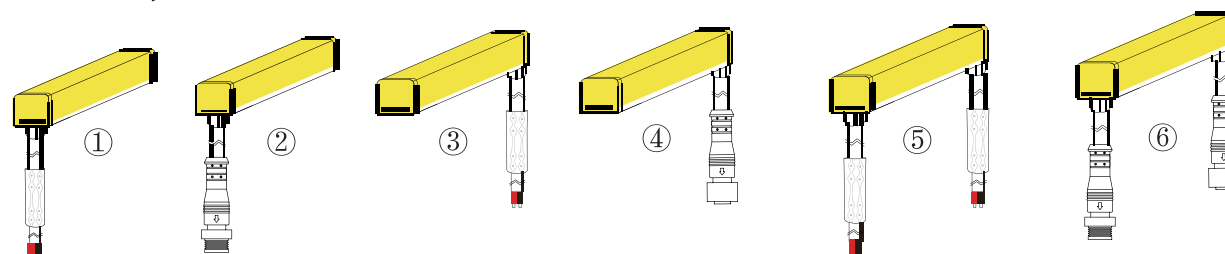
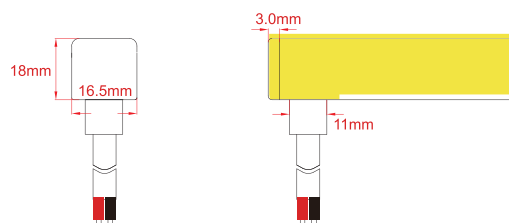
Side entry Connector

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



Bottom entry Connector

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



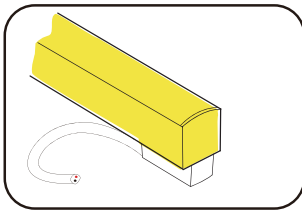
For more information

Email: info@neonled.sk

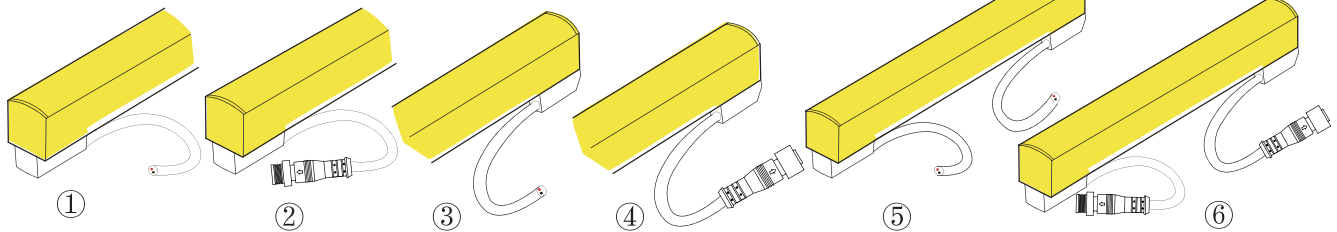
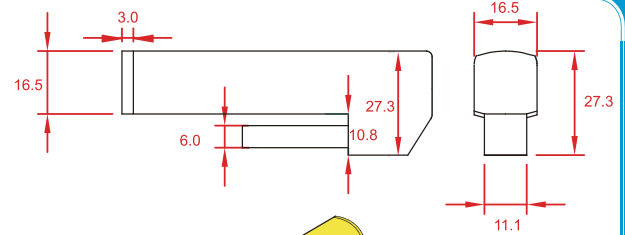
Or visit www.neonled.sk

Mold injection Connector

(IP68 Factory Assembly only)

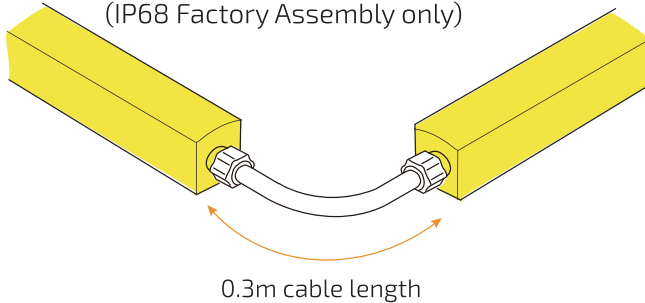


- ① MJ-18-A-L01
- ② MJ-18-A-L01SM
- ③ MJ-18-A-L02
- ④ MJ-18-A-L02SF
- ⑤ MJ-18-A-L03
- ⑥ MJ-18-A-L03SMF



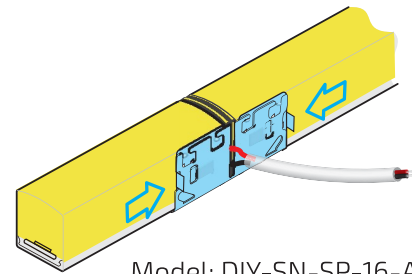
Mold injection Jumper

(IP68 Factory Assembly only)



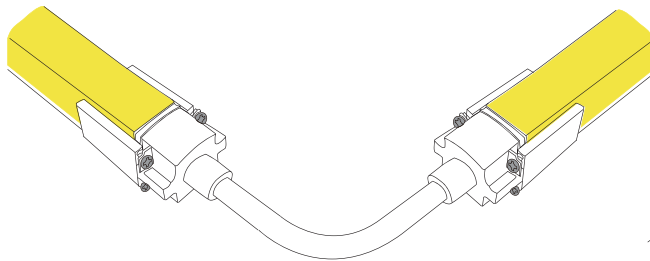
DIY snap splice connector

(IP67 Only)



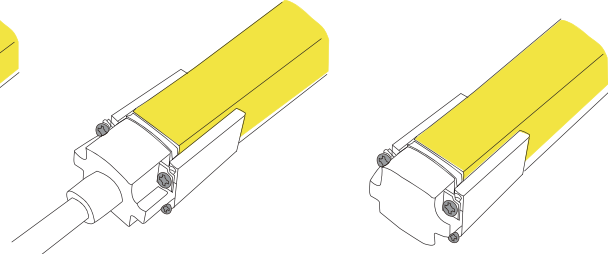
DIY Screw & Snap Connector Kit (IP67 Only)

DIY screw splice connector kit



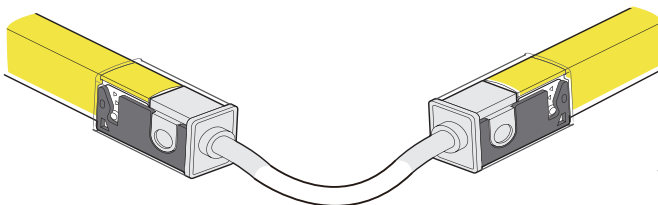
Model: DIY-SC-FR-16-D-01/02-A

DIY screw connector & end cap kit



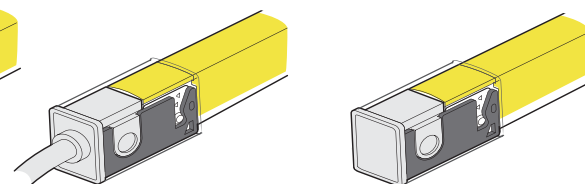
Model: DIY-SC-END-16

DIY snap splice connector kit



Model: DIY-SN-FR-16-D-01/02-A

DIY snap connector & end cap kit



DIY-SN-END-16

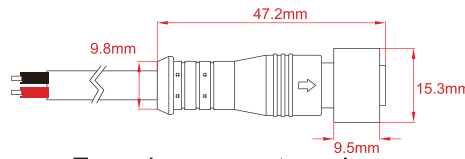
For more information

Email: info@neonled.sk

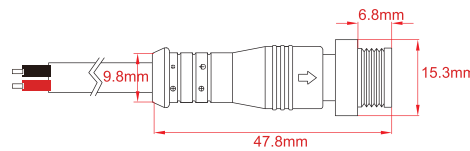
Or visit www.neonled.sk

Other Accessories

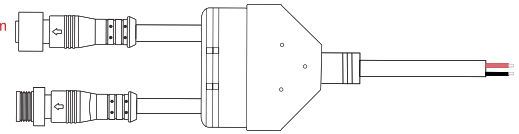
Female & Male Connector



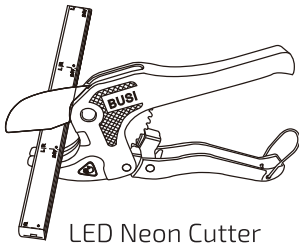
Female connector wire
SYZ-M12-F-2C-075-W



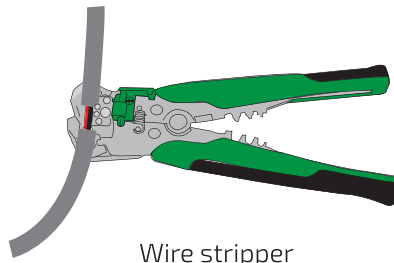
Male connector wire
SYZ-M12-M-2C-075-W



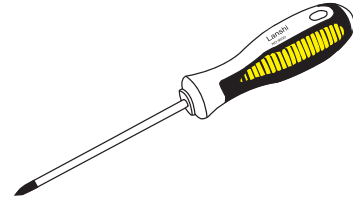
Middle power connector
MID-CNR-A-1T2



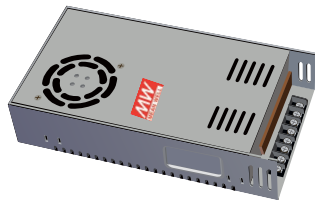
LED Neon Cutter
ACC-TOOL-C1



Wire stripper
ACC-TOOL-WS01



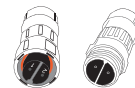
Screwdriver
ACC-TOOL-C2



Mean Well Transformer
Non-waterproof Series



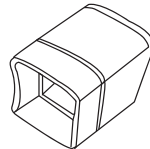
Mean Well Transformer
Waterproof Series



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



Silicone Rubber
K-5905



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		

[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)

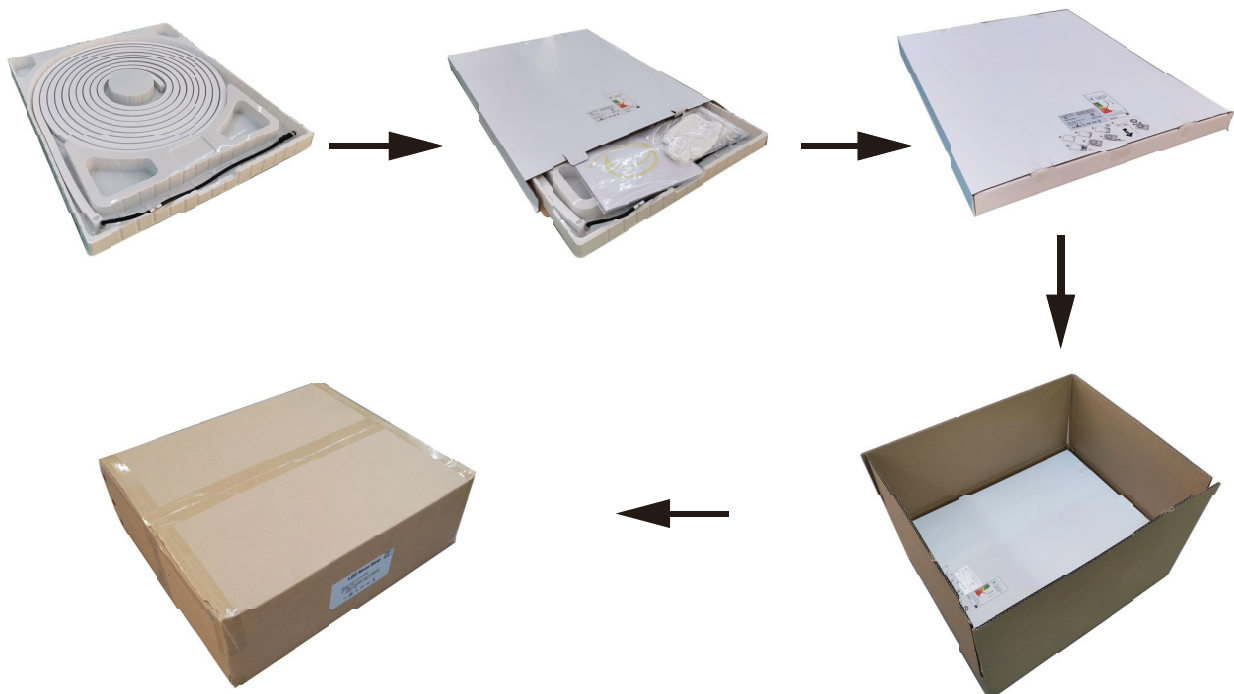
Carton Dimension

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)

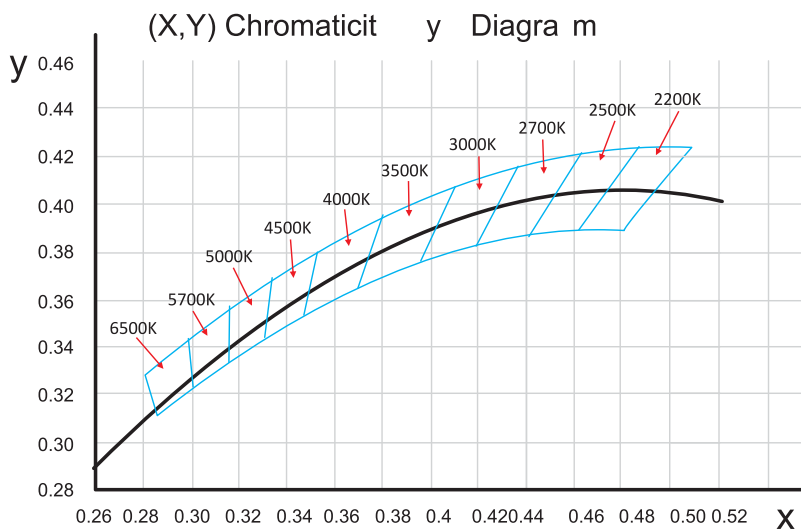
Testing

ANSI Standard

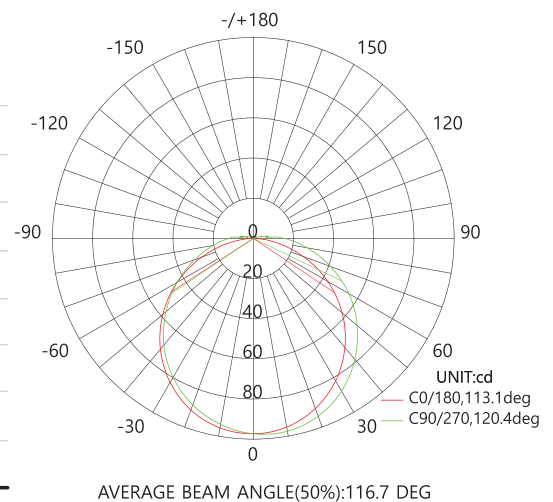
Nominal CCT Categories (2200-6500K)

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

White Color Charts



Photometric



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

Email: info@neonled.sk

Or visit www.neonled.sk

Loading Chart

Power supply

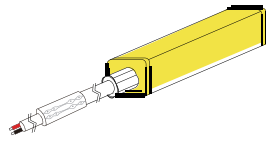
Rated power	35W	60W	75W	80W	100W	120W	150W	185W	240W	320W
9W	2.5m	5m	6.5m	7m	8.5m	10m	13m	16m	20m	28m
10W	2.5m	4.5m	6m	6.5m	8m	9m	12m	14m	19m	25.5m

Single Feed

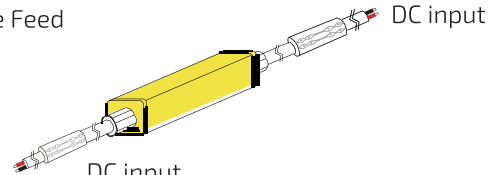
Double Feed

Lead Type

DC input



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 7m at 9W/m.

Recommendation of extension wire

Maximum extension wire length according to Light power

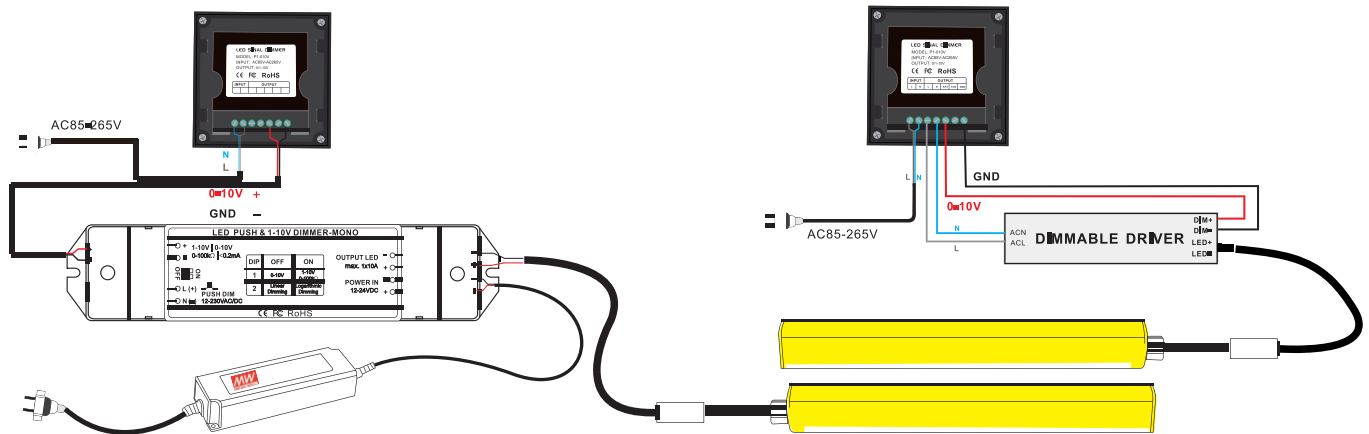
Watts of light	22AWG 0.34mm ²	20AWG 0.53mm ²	18AWG 0.82mm ²	17AWG 1.04mm ²	16AWG 1.38mm ²	14AWG 2.07mm ²	12AWG 3.29mm ²	10AWG 5.62mm ²
10W	36m	60m	100m	120m	140m	240m	400m	600m
20W	18m	30m	50m	60m	70m	120m	200m	300m
30W	12m	20m	30m	38m	45m	80m	130m	200m
40W	8m	15m	22m	28m	35m	60m	95m	140m
50W	6m	12m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

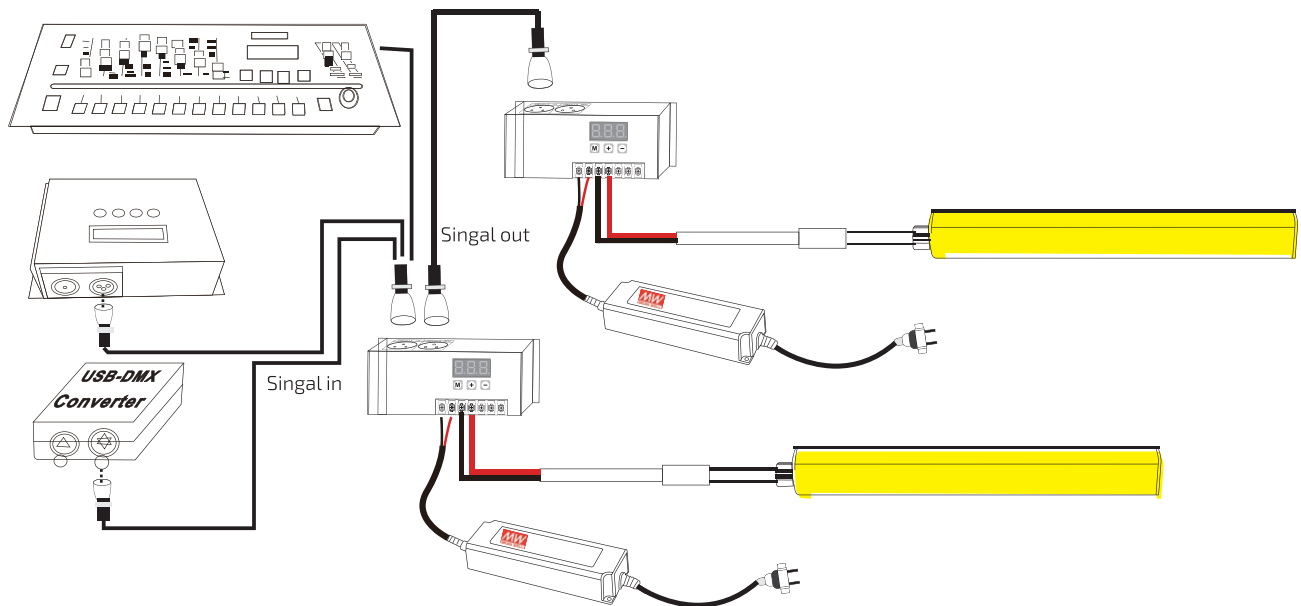
- 1.The values doesn't include the 0.6m cable connected to the front connector.
- 2.To ensure the reliability of wire connection and avoid problem of voltage drop, the extension wire length should be smaller than the above recommended values.

Dimming system Connection

0-10V dimming system



DMX512 dimming system



DALI dimming system

