fullwat®
professional *solutions*

side view neon
NL-0612H-BX

Flame Protected	Resistant to solvents	Saltwater resistant	UV resistant	IP67 Inmersion Protection	LK08 protection	120° Beam angle	Ø60mm Min. bending diameter

BRIEF PARAMETERS

Forward Voltage:	24VDC
Power:	<10W/m
Led color:	White
Wave length:	2700-6500K
Width:	6mm
Thickness:	12mm
Min. Bending diameter	≥60mm
IP grade	IP67 / IP65 (Depending on the connectors used: factory or mounted)

SIDE VIEW
Horizontal Bending
Horizontal bending against the light surface

12mm

6mm

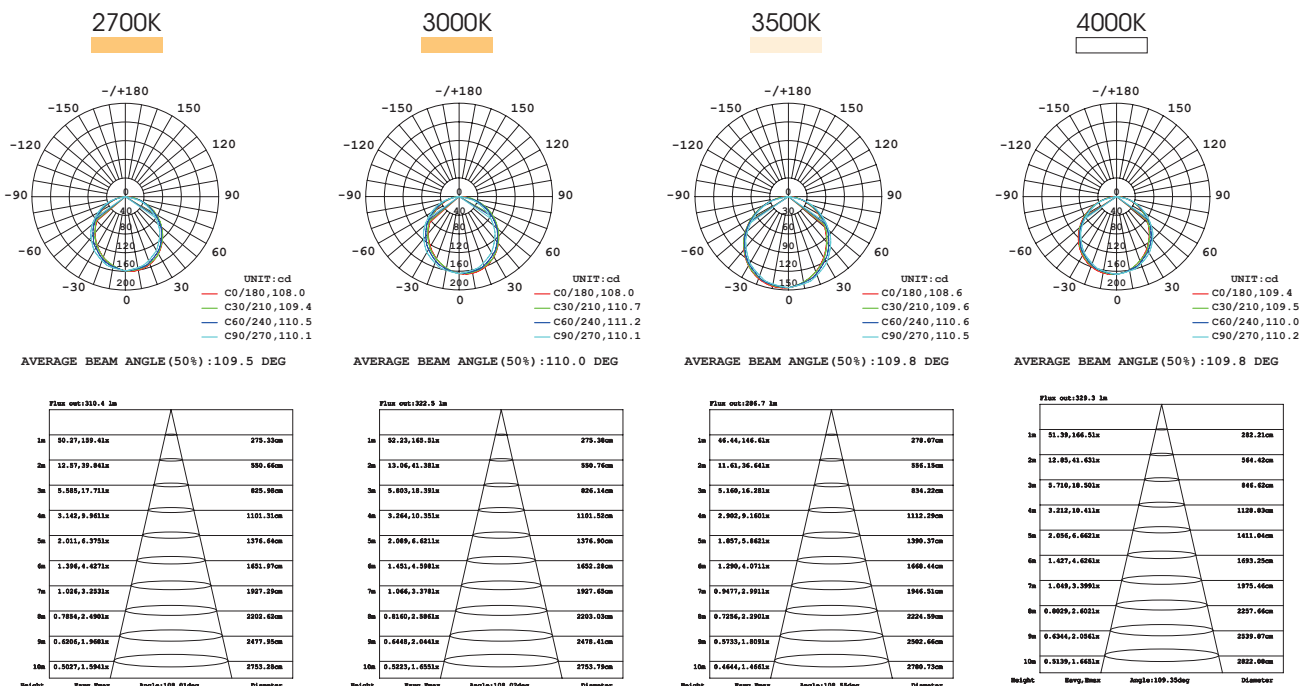Light surface
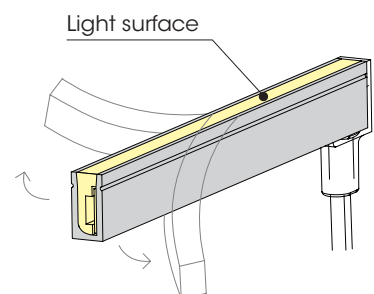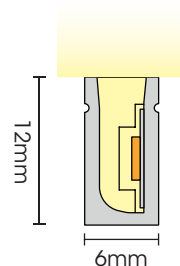
PRODUCT FEATURES

- IP67 silicon extrusion neon flex, horizontal bending; dimension: 6x12mm .
- Led strip inside: 160led/m SMD2835.
- Perspective marking precisely with 100% accurate: neonflex in error-free cutting point.
- With matte treatment, smooth surface and dustproof.
- Same width end cap as the strip.
- Power cord with 2 directions: straight powered, side powered.
- In one cuttable group, if one LED broken, others will still working without dark area.
- Special design, still works however inner FPC board damaged in one or more pieces.
- Constant voltage design, Max.run (single end feed): 5m/pcs, 100mm as a min. section with the fast connectors.
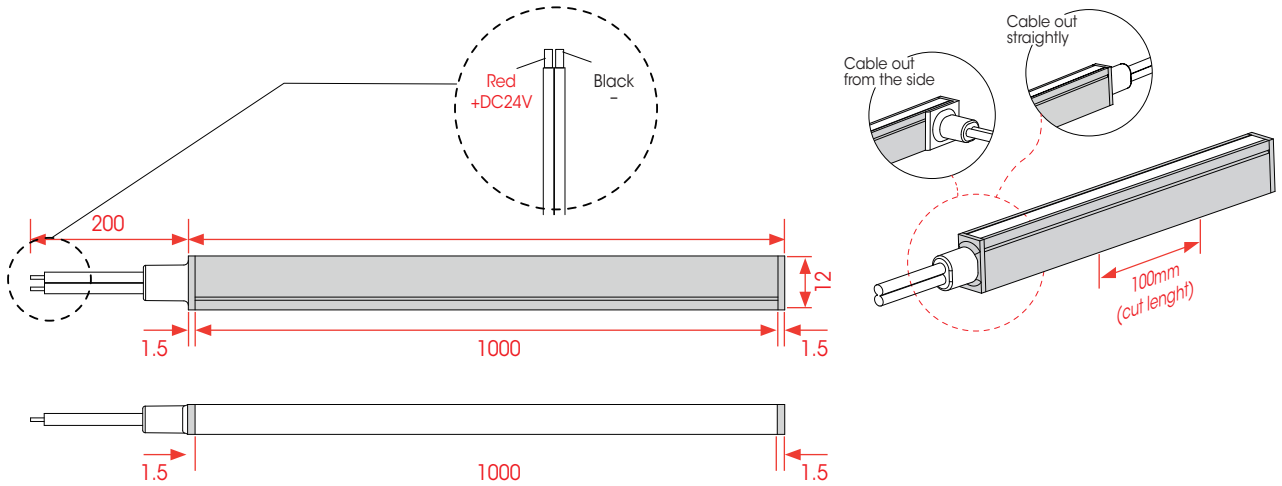
OPTICAL PARAMETER

Item	Color/CCT	Lumen/m	Power/m	Voltage	Light efficiency	CRI (Ra)	Max. Run (single end feed)	Minimum section	Color tolerance
NL-0612H-BH	2700K	480Lm	<10W	24VDC	48Lm/W	95+	5m	100mm	SDCM<6
NL-0612H-BC	3000K	510Lm	<10W	24VDC	51Lm/W	95+	5m	100mm	SDCM<6
NL-0612H-BCN*	3500K	540Lm	<10W	24VDC	54Lm/W	95+	5m	100mm	SDCM<6
NL-0612H-BN	4000K	630Lm	<10W	24VDC	63Lm/W	95+	5m	100mm	SDCM<6
NL-0612H-BF	6500K	630Lm	<10W	24VDC	63Lm/W	95+	5m	100mm	SDCM<6

* Available under request.

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

2700K

UNIT:cd
- C0/180,108.0
- C30/210,109.4
- C60/240,110.5
- C90/270,110.1

AVERAGE BEAM ANGLE(50%):109.5 DEG

Flux out:310.4 lm

Height	Eavg,Emax		Diameter
1m	50.27,159.61x		275.33cm
2m	12.57,39.861x		550.66cm
3m	5.585,17.711x		825.98cm
4m	3.142,9.961lx		1101.31cm
5m	2.011,6.375lx		1376.64cm
6m	1.396,4.427lx		1651.97cm
7m	1.026,3.253lx		1927.29cm
8m	0.7854,2.490lx		2202.62cm
9m	0.6206,1.968lx		2477.95cm
10m	0.5027,1.594lx		2753.28cm

Angle:108.01deg

3000K

UNIT:cd
- C0/180,108.0
- C30/210,110.7
- C60/240,111.2
- C90/270,110.1

AVERAGE BEAM ANGLE(50%):110.0 DEG

Flux out:322.5 lm

Height	Eavg,Emax		Diameter
1m	52.23,165.51x		275.38cm
2m	13.06,41.381x		550.76cm
3m	5.803,18.381x		826.14cm
4m	3.264,10.351x		1101.52cm
5m	2.089,6.621lx		1376.90cm
6m	1.451,4.598lx		1652.28cm
7m	1.066,3.378lx		1927.65cm
8m	0.8160,2.586lx		2203.03cm
9m	0.6448,2.044lx		2478.41cm
10m	0.5223,1.655lx		2753.79cm

Angle:108.03deg

3500K

UNIT:cd
- C0/180,108.6
- C30/210,109.6
- C60/240,110.6
- C90/270,110.5

AVERAGE BEAM ANGLE(50%):109.8 DEG

Flux out:286.7 lm

Height	Eavg,Emax		Diameter
1m	46.44,146.61x		270.07cm
2m	11.61,36.641x		556.15cm
3m	5.160,16.281x		834.22cm
4m	2.902,9.160lx		1112.29cm
5m	1.857,5.862lx		1390.37cm
6m	1.290,4.071lx		1668.44cm
7m	0.9477,2.991lx		1946.51cm
8m	0.7256,2.290lx		2224.59cm
9m	0.5733,1.809lx		2502.66cm
10m	0.4644,1.466lx		2780.73cm

Angle:108.55deg

4000K

UNIT:cd
- C0/180,109.4
- C30/210,109.5
- C60/240,110.0
- C90/270,110.2

AVERAGE BEAM ANGLE(50%):109.8 DEG

Flux out:329.3 lm

Height	Eavg,Emax		Diameter
1m	51.39,166.51x		282.21cm
2m	12.85,41.631x		564.42cm
3m	5.710,18.501x		846.62cm
4m	3.212,10.411x		1128.83cm
5m	2.056,6.662lx		1411.04cm
6m	1.427,4.6261x		1693.25cm
7m	1.049,3.399lx		1975.46cm
8m	0.8029,2.602lx		2257.66cm
9m	0.6344,2.056lx		2539.87cm
10m	0.5139,1.665lx		2822.08cm

Angle:109.35deg

DIMENSIONS AND OUTLET DIRECTION
Unit:mm

Red +DC24V

Black −

Cable out from the side

Cable out straightly

200

12

1.5

1000

1.5

100mm (cut lenght)

1.5

1000

1.5

Notice: End cap with the same width as the tape light.

CONNECTING ACCESSORIES
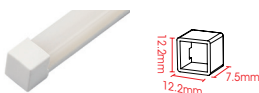### (IP65)

Initial cap with straight cable hole
NL-0612H-CAP1

7.8mm
13.8mm
12mm

Straight initial connection
NL-0612H-WIRE-I

(wire length) 200mm
17.8mm
12.2mm
38mm

Bottom initial connection angled
NL-0612H-WIRE-LI

38mm
17.8mm
12.2mm
(wire length) 200mm
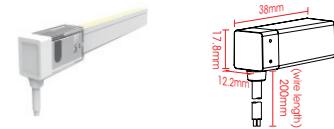
Assembly end cap
NL-0612H-CAP2

12.2mm
7.5mm
12.2mm

Intermediate connection
NL-0612H-JOIN
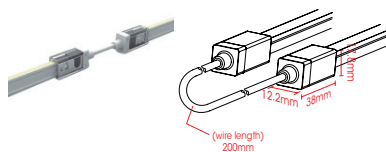
12.2mm
38mm
(wire length) 200mm

Left side initial connection angled
NL-0612H-WIRE-LL

(wire length) 300mm
17.8mm
12.2mm
38mm

Right side initial connection angled
NL-0612H-WIRE-LR

38mm
17.8mm
12.2mm
(wire length) 300mm
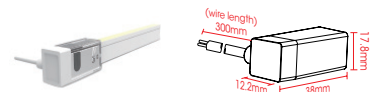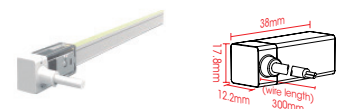
INSTALLATION ACCESORIES

Aluminium Buckle - **NL-0612H-CLIP**
8.6x14.6x25mm

14.6mm
25mm 8.6mm
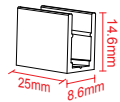
Screw
16x3mm

3mm
16mm
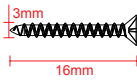
Lenght	1000mm
Buckle	4pcs
Screw	4pcs
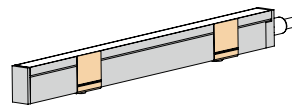
Aluminium profile - **NL-0612H-PF-AL**
8.6x14.6x2440mm

14.6mm
2440mm 8.6mm
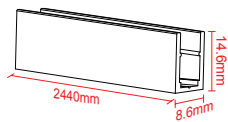
Lenght	2440mm

PACKAGING

Top cover

Bottom bracket
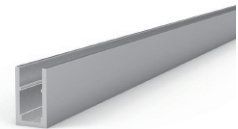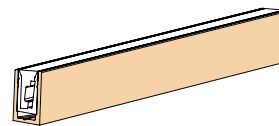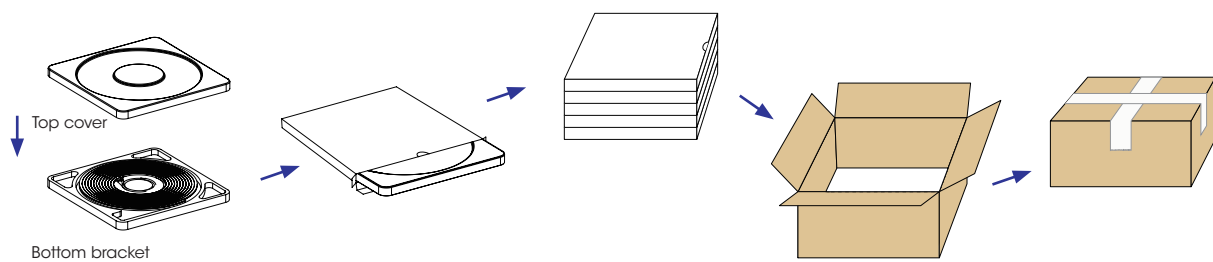
Light length	Plastic box dimension	White box dimension	Numbers of white box	Carton dimension
1m	275×275×30.5mm	275×35×275mm	40pcs	570×570×380mm
5m	385×385×35.5mm	385×39×385mm	10pcs	405×405×420mm
10m	480×480×35.5mm	480×39×480mm	5pcs	500×500×225mm

NEON LED STRIP INSTRUCTION AND CAUTION

Light Profile

12mm
6mm

Correct bending way

Light surface
60mm
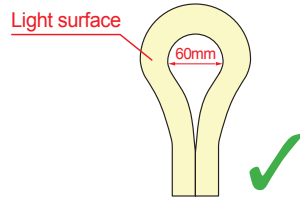
60mm

Face to the light surface
fold the strip, the minimum
bending diameter is 60mm.
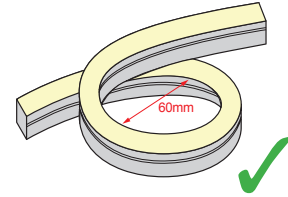
Light surface upwards, the
strip is bendable to right or
left naturally, the minimum
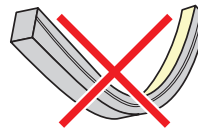bending diameter is 60mm.

Bending direction Profile
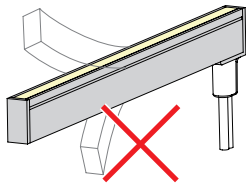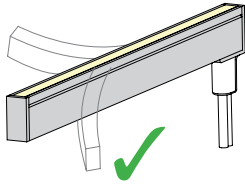
Incorrect bending way

Face to the side surface,
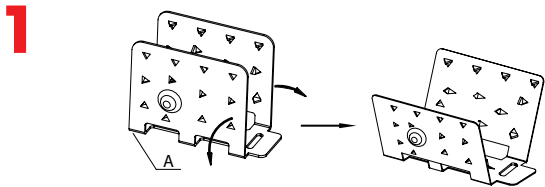(as the picture shows)
Do not bend downward to
damage the strip.

Face to the side surface,
(as the picture shows)
Do not bend upward to
damage the strip.

(as the picture shows)
please do not twist
the strip, or it will be
damaged.

CUTTING AND CONNECTING METHOD OF SIDE-VIEW NEONFLEX LED STRIP
### End cap with cables | Size 6x12mm

1

Force apart the two sides of metal clip A outwards around 20 degree according to the direction of arrow with hands.

2
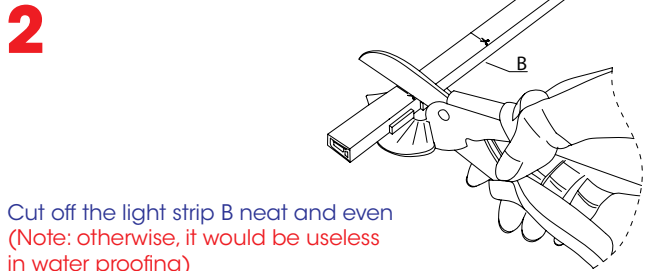
Cut off the light strip B neat and even
(Note: otherwise, it would be useless in water proofing)
with a flat scissor following the cutting line.

3

FPC

Make sure the cutting surface neat and event.
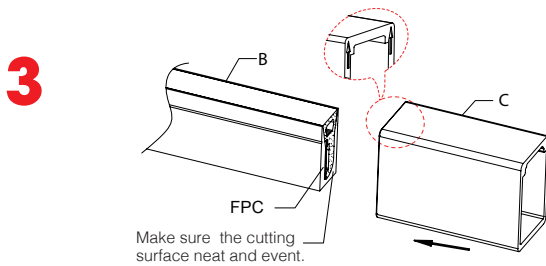
Stick transparent kit C in Neon light strip B according to the direction of arrow, pay more attention to the position of FPC of Neon light strip and the direction of arrow on transparent kit.

4
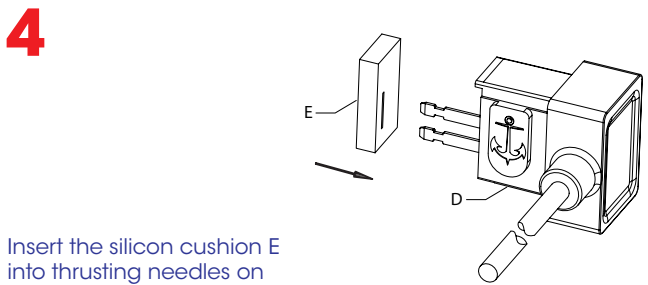
Insert the silicon cushion E into thrusting needles on plug D according to the direction of arrow.

5

LEDs
FPC lamp panel
The cooper pln should be inserted on the back of FPC
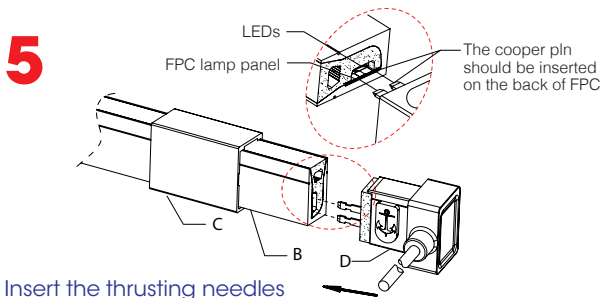
Insert the thrusting needles D on plug into the bottom of FPC of Neon light strip B.

6
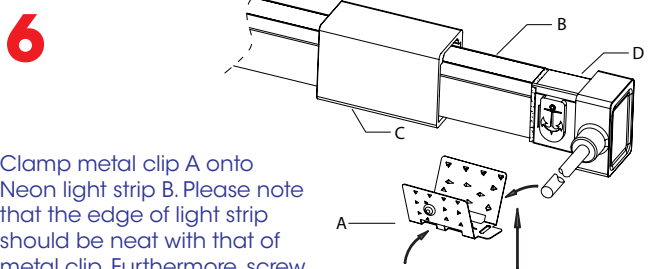
Clamp metal clip A onto Neon light strip B. Please note that the edge of light strip should be neat with that of metal clip. Furthermore, screw up metal clip A according to the direction of arrow.

7
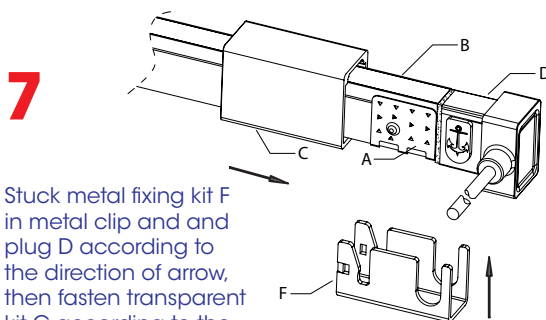
Stuck metal fixing kit F in metal clip and and plug D according to the direction of arrow, then fasten transparent kit C according to the direction of arrow towards the location of plug.

8
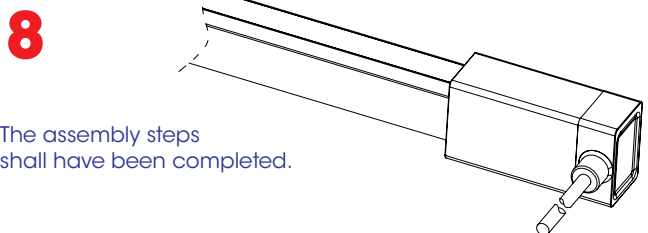
The assembly steps shall have been completed.