

FEATURES OF LED FLEX RIBBON NEON LIGHT

- Model: C-FR-F15B-DC24V-60
- Rated input voltage: DC 24V
- Rated Power: 12W/m
- Dimension: 11.5*21mm
- LED quantity: 60LEDs/mtr,
- LED Spacing: 16.67mm
- Min. cutting length: 10cm(6LEDs)
- Max. running length: 20mtrs
- Light color: Single Color
(Red/Green/Blue/Yellow/Warm White/Cool White/Daylight White)
- Min. bent diameter: 12cm
Do not twist the LED Neon Flex Ribbon Light .
- Protection rate: IP68/IP65/IP40
- Protection rate for IP68: Protected against dust and submersion in water (1meter above).
NOTE: All connector joints must be connected correctly to achieve IP68 rating.
- Can be cut and extended
- Long lifetime: 5 years
- Performance applicable ambient temperature: -10°C~45°C
- Certificate compliance: CE,ROHS,FCC,IC,C-Tick

ACCESSORIES(SALE SEPARATELY)

IP68 Accessories Kit

F15B Both Ends Connection Application Accessories Kit

01 Front Connector	1 pc
02 Front Connector	1 pc
Rubber Gasket	2 pcs
Aluminum Mounting Piece	2 pcs
Anti-skidding clip	2 pcs
Screws	8 pcs

F15B Single End Connection Application Accessories Kit

Front Connector Accessories Kit	
01 (or 02) Front Connector	1 pc
Rubber Gasket	1 pc
Aluminum Mounting Piece	1 pc
Anti-skidding Clip	1 pc
Screws	4 pcs

End Cap Accessories Kit

The Tail Plug	1pc
Aluminum Mounting Piece	1pc
Anti-skidding Clip	1pc
Rubber Gasket	1pc
Screws	4pcs

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IP65 Accessories Kit

F15B Both Ends Connection Application Accessories Kit

01 Front Connector	1 pc
02 Front Connector	1 pc
Cover	2 pcs
Anti-skidding clip	4 pcs
HST	2 pcs

F15B Both Ends Connection Auxiliary Accessories Kit

Glue	1 pc
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F15B Single End Connection Application Accessories Kit

Front Connector Accessories Kit

01 (or 02) Front Connector	1 pc
Cover	1 pc
Anti-skidding clip	2 pcs
HST	1 pc

Remark: HST--Heat Shrink Tube

End Cap Accessories Kit

End Cap	1pc
Shading Sheat	1pc
HST	1pc

F15B Single End Connection Auxiliary Accessories Kit

Glue	1 pc
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IP40 Accessories Kit

F15B Both Ends Connection Application Accessories Kit

01 Front Connector	1 pc
02 Front Connector	1 pc
Cover	2 pcs
Anti-skidding clip	4 pcs
HST	2 pcs

F15B Single End Connection Application Accessories Kit

Front Connector Accessories Kit

01 (or 02) Front Connector	1 pc
Cover	1 pc
Anti-skidding clip	2 pcs
HST	1 pc

Remark: HST--Heat Shrink Tube

End Cap Accessories Kit

End Cap	1pc
Shading Sheat	1pc
HST	1pc

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WARNING AND CAUTION

WARNING

- Before making any cuts, installation, maintenance or connection, be sure the mains is disconnected!
- NOTE: ALL CONNECTOR JOINTS MUST BE CONNECTED CORRECTLY TO ACHIEVE IP68/IP65/IP40 RATING.
- Please operate this flex light by instructions, and confirm the work voltage, it must be matched with product requirements
- Please confirm the polarity of connector before insertion front connection cable.
- Connect and cut this product correctly. Any wrong operation will damage this product.
- No pressing on this product during storage, long term pressing may lead to damage.
- Using qualified DC power supply.
- Min. bent diameter 12cm, see Fig. 1.
- Do not twist the LED Neon Ribbon Light as Fig. 2 and Fig. 3.
- Do not hang this flex light in sky as Fig.4.
- Cutting at wrong location will result in a failure of light! See Fig. 5.

CAUTION

- Suitable for mounting on normally flammable surfaces..
- Use only factory-recommended connectors and accessories.
- To ensure its long life span, operate the light properly in accordance with the instructions.
- Do not operate in more than 45°C ambient temperature.
- Assemble the Connector correctly as Fig. 6.
- Max. running length depends on the energizing way as Fig. 7 shown.
- Warm White, Cool White and Daylight color reference ANSI STANDARD.
- Do not operate light when ambient temperature is below 5°C that may injury the light .

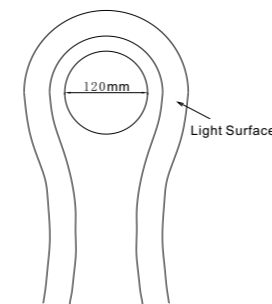
ASSEMBLY AND INSTALLATION

- Turn off the electricity before operation.
- Cutting the light at correct location (if need) .
- Assemble light according to Fig. 8, Fig. 9 or Fig. 10 or Fig. 11.
- Install U channel and light according to Fig. 12.
- Wiring all connectors to the power line and checking whole circuit wiring. Cable color coding basics Refer to Fig. 13.

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FIGURES

Fig. 1 Minimum bent diameter 120mm



Twist the light is forbidden and correct bending way

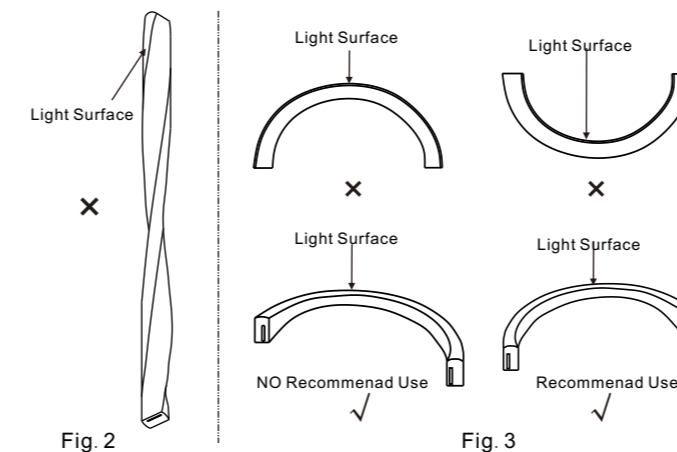
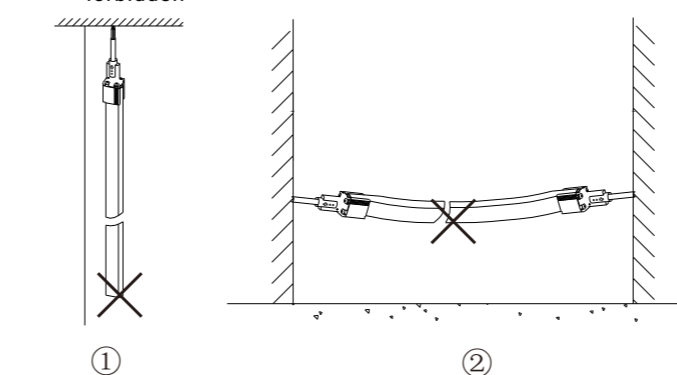


Fig. 2

Fig. 3

Fig. 4 Hang suspended installation as the picture illustrated is forbidden



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Fig. 5 Unit cutting guide

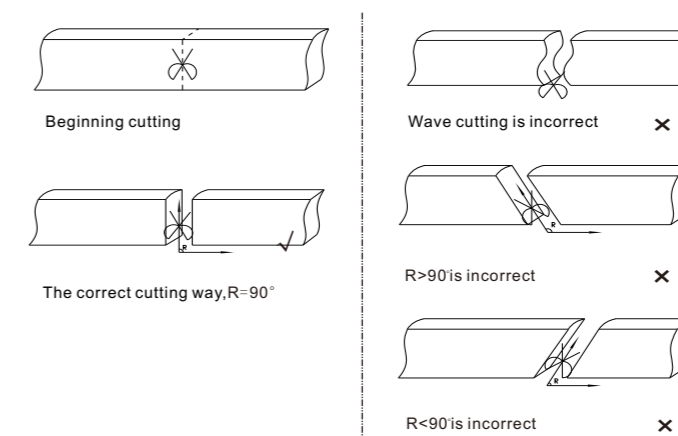
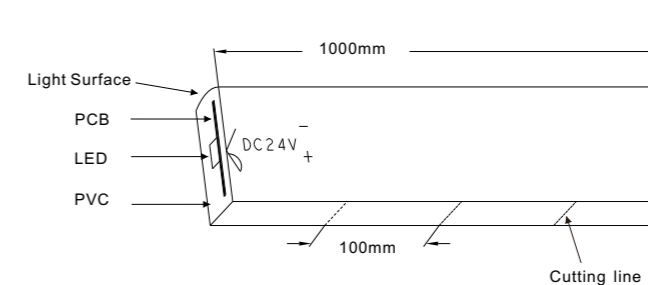
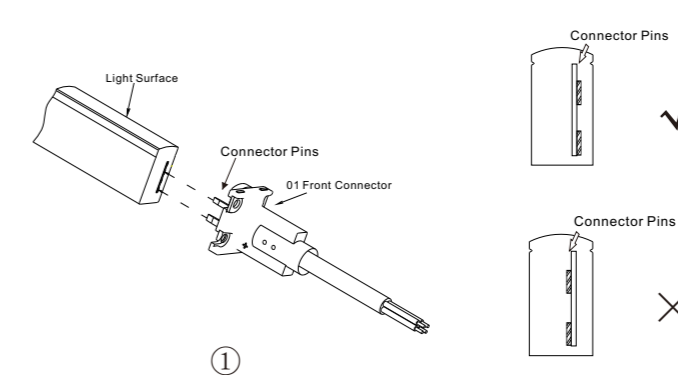


Fig. 6 Correct insert position of connector pins



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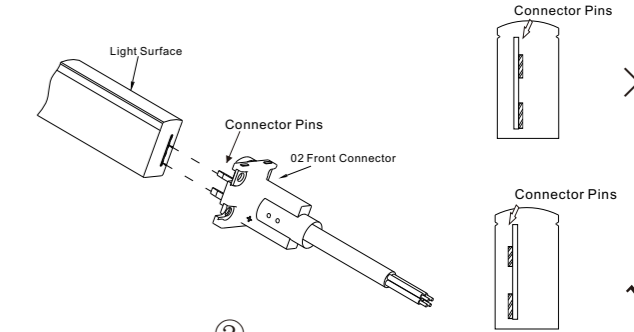


Fig. 7 Energizing Way

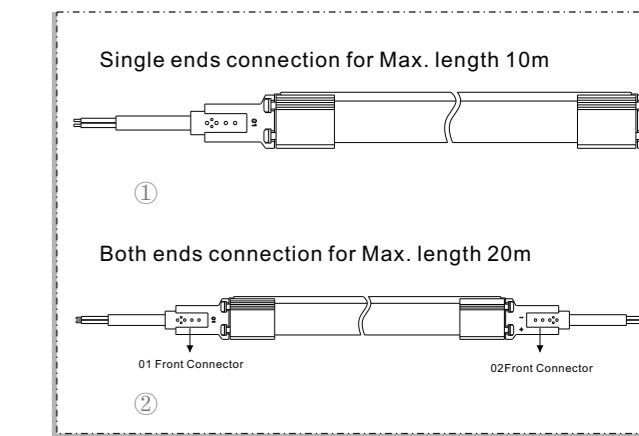
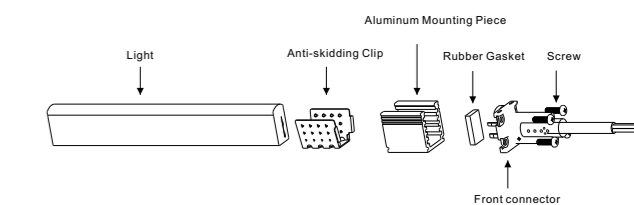


Fig. 8 IP68 Front Connector Assemble

Diagram



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ANSI STANDARD

Nominal CCT Categories

Nominal CCT	Target CCT and tolerance(K)	Target Duv and tolerance
2700K	2725 ± 145	0.000 ± 0.006
3000K	3045 ± 175	0.000 ± 0.006
3500K	3465 ± 245	0.000 ± 0.006
4000K	3985 ± 275	0.001 ± 0.006
4500K	4503 ± 243	0.001 ± 0.006
5000K	5028 ± 283	0.002 ± 0.006
5700K	5665 ± 355	0.002 ± 0.006
6500K	6530 ± 510	0.003 ± 0.006

Flexible CCT (2700-6500K)	T ² +ΔT ³	DuvT ² ±0.006
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Remark:

- Six of the nominal CCTs correspond to those in the fluorescent lamp specification [2]: 2700K, 3000K (Warm White), 3500K (White), 4100K (Cool White), 5000K and 6500K (Daylight), respectively.
- T is chosen to be at 100K steps (2800, 2900, ..., 6400K), excluding those eight nominal CCTs listed in Table 1.
- ΔT is given by $\Delta T = 0.0000108 \times T^2 + 0.0262 \times T + 8$.
- Duv is given by $Duv = 57700 \times (1/T)^2 - 44.6 \times (1/T) + 0.0085$.

GUARANTEE

- The product can keep use over 5 years under an application environment temperature -10°C~45°C and worked based on typical 8hrs/day operation.
- This product is guaranteed for a period of 2 years. The "Warranty Period" will begin at the date of original product purchase from either Clear, or an authorized Clear Distributor/Dealer.
- Clear will repair or replace product covered under this warranty with components of Clear's election or discretion. Advances technology for the products will be selected firstly for replacement.
- Warranty is only to apply for products that are properly installed. This includes proper assembly, wiring and connection to proper approved components and product working environments.
- This Warranty is void and does not apply to products that fail as a result of neglect, mistake, misuse, alteration, or that is improperly assembly, installation and implemented. This includes but is not limited to: improper assembly, improper wiring, installation under improper and non-approved operation environments such as temperature or voltage conditions; improper installation using components that are not approved or are not manufacture products, improper installation not in according with any labels or instructions.

USER MANUAL

LED NEON RIBBON LIGHT

F15B

PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLATION LEAVE A COPY FOR THE END USER/MAINTENANCE ENGINEER FOR FUTURE REFERENCE

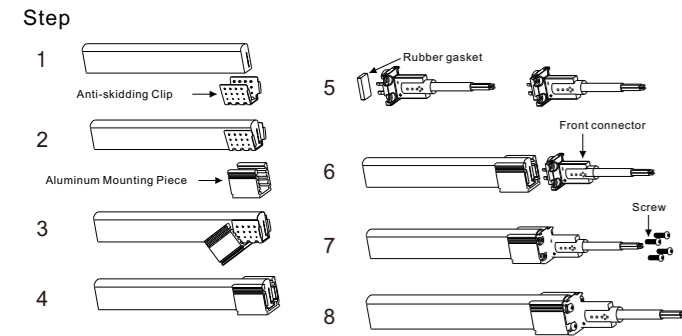


Fig. 9 IP68 End Cap Assemble

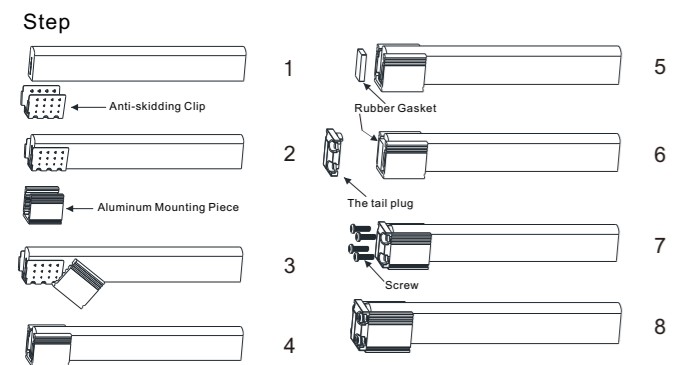
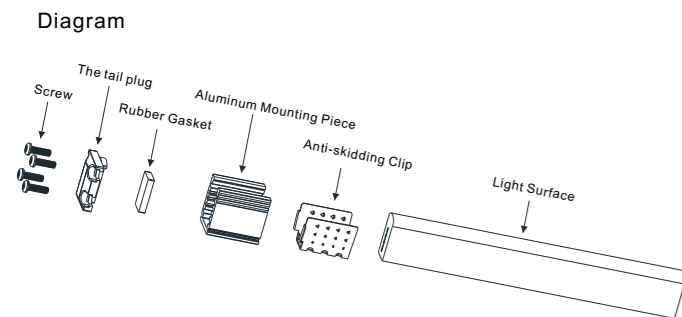


Fig. 10 IP65 Accessories Assemble

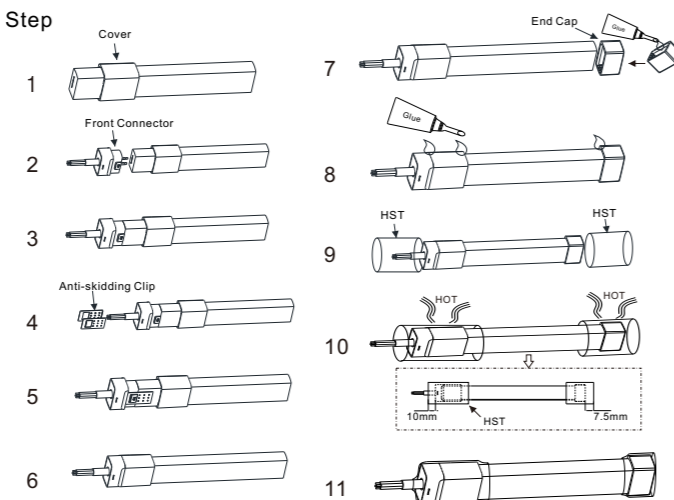
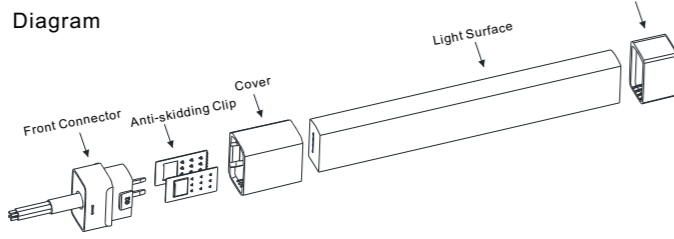


Fig. 11 IP40 Accessories Assemble

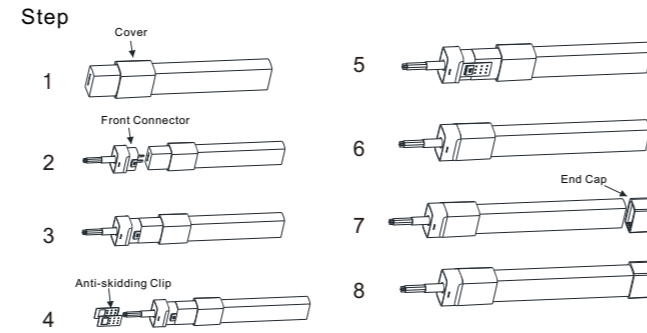
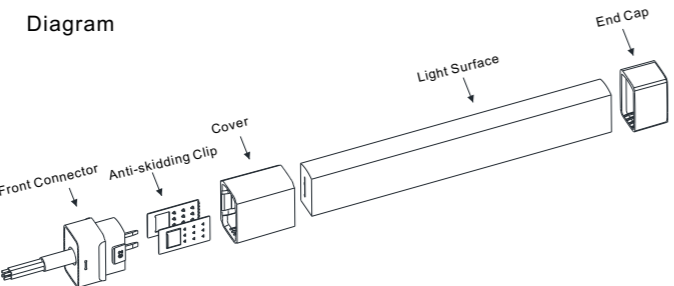
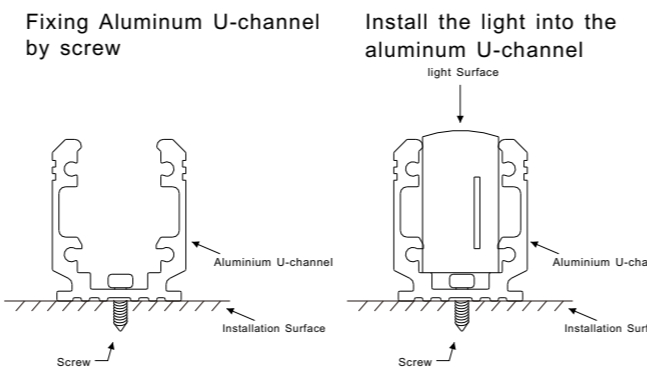
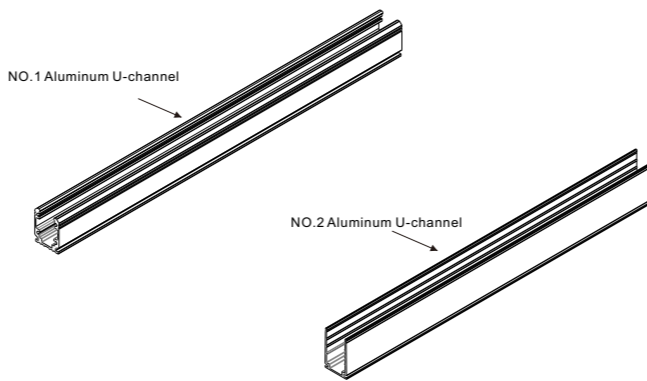
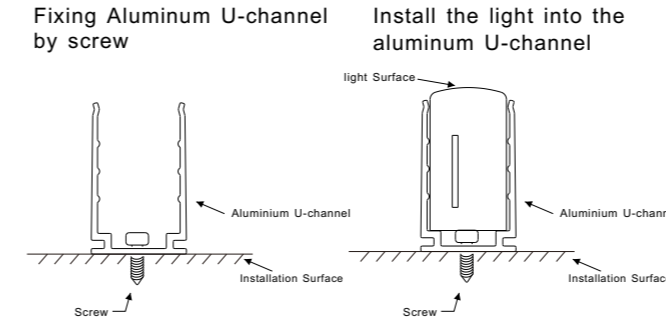


Fig. 12 Installation Guide



NO.1 Aluminum U-channel Installation Guide



NO.2 Aluminum U-channel Installation Guide

Fig. 13 Cable color coding basics

