

C-FR-F15B UL2388 (AC120V)

Introduction-PVC

C-FR-F15B, AC120V input, is a member of the Artist of Light series with smooth flat exterior that allows various monochromatic lighting solutions and produces superior homogenized illumination along its elongated running length.

Built-in protection circuit design which means each two LEDs as a unit is protected, one unit failure has no effect on other units working and the whole light can keep constant lighting. It's the brightest UL 120V neon flex light.

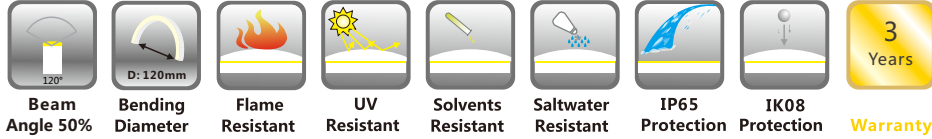
C-FR-F15B high voltage version is UL and RoHS compliant. Moreover, it has passed environmental resistance, optical, mechanical and electrical tests in our lab under the support of advanced experimental equipments and technology to ensure it meets the requirements of harsh environments. Also it has passed relevant tests of third party inspection authority.

Fully encapsulated in the flexible PVC chamber by utilizing consummate extrusion technology, and pre-installed with injection-molded connector and waterproof male & female connectors for absolute safety, easy for installation and applicable for indoor and outdoor various circumstances.

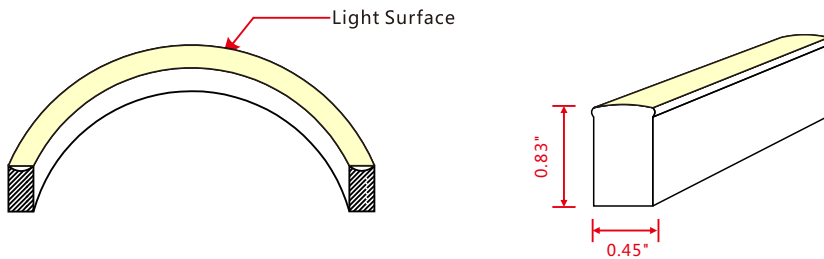
Applications:

1. Outdoor or Indoor Contour/Border Lighting
2. Architectural Outline/Decorative Lighting
3. Cove/Accent Lighting
4. Facade/Floor Lighting
5. Signage/Stage Lighting

1. Specifications & Parameters



1.1 Dimensions of Light



Note: Unless otherwise stated, the tolerance of the light is ± 0.01 ".

1.2 Technical Parameters

Code: C-FR-F15B-HB-AC120V-UL2388-30K

Technical Parameters

| | |
|----------------------------------|---------------------------------------|
| Article No. | C-FR-F15B-AC120 |
| Color | Red/Amber/Warm White/White/Green/Blue |
| Working Voltage | AC 120V, 60Hz |
| Rated Power/m | 6W |
| LED Qty/m | 84LEDs |
| LED Distance | 0.47" |
| Min. Cutting Unit | 42LEDs(1unit) |
| Min. Cutting Length | 19.7"(1unit) |
| Continuous Length | 131.2' |
| Weight/ft | 99.1g |
| Storage Temperature | -20~60°C |
| Ambient Working Temperature | -20~35°C |
| Ambient Installation Temperature | 5~35°C |
| IP Rating | Dry/ Damp/ Wet |

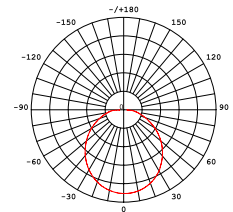


1.3 Optical Parameters

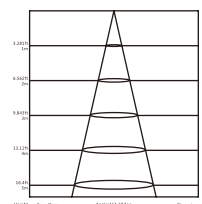
Photometric Data

| Article No. | C-FR-F15B-AC120 | | | | |
|----------------|-----------------|----------|-------|-----------|----------|
| LED Type | SMD | | | | |
| Beam Angle 50% | 120° | | | | |
| Color | Wavelength | Lumen/ft | Color | CCT | Lumen/ft |
| Red | 618-624nm | >75lm | 2200K | 2238±102K | >180lm |
| Green | 522-528nm | >200lm | 2700K | 2725±145K | >180lm |
| Blue | 468-474nm | >30lm | 3000K | 3045±175K | >200lm |
| Amber | 588-594nm | >75lm | 3500K | 3465±245K | >200lm |
| | | | 4000K | 3985±275K | >200lm |
| | | | 5700K | 5669±355K | >200lm |

Candle Power Distribution



Illuminance Characteristics

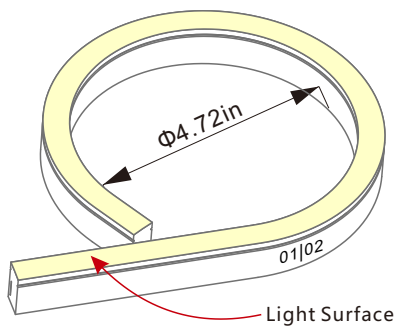


2. Functions & Features

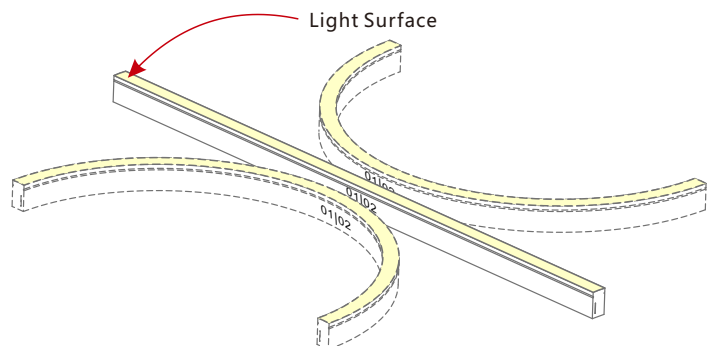
2.1 Product Features

1. High quality and high brightness SMD LED chip.
2. Protection Circuit: Each Two LEDs Protected.
3. Variety of monochromatic lights for option including Red, Green, Blue, Amber and White light.
4. UV & flame resistant construction(PVC).
5. Flat profile, good choice for recessed mounting.
6. High color consistency&smooth illumination with no light dots.
7. Flexible with 4.72in minimum bending diameter.
8. Use location: dry, damp, wet.
9. Continuous length up to 131.2ft by powering one end.
10. Environmentally friendly & energy efficient.
11. Automated production, high reliability & long warranty.
12. 5 years life span.

2.2 Minimum Bend Diameter



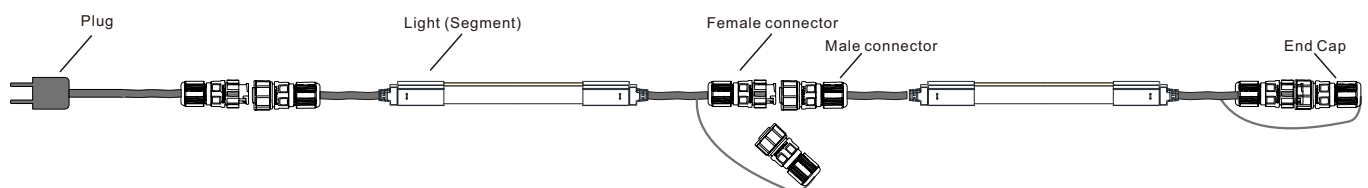
The light can only be bent laterally (opposite bend along to light surface).



Do not bend smaller than allowed minimum bend diameter.

3. Types of Connector

3.1 Extension Part C-FR-F15B-AC120-EX



Note: Unless otherwise stated, the tolerance of the connector is ± 0.02 ".



Power cord

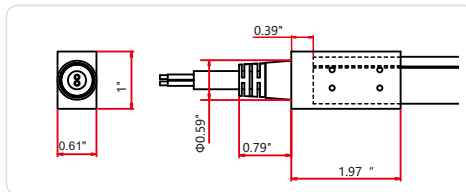
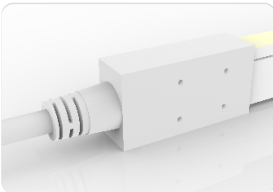
1. 4.59ft power cord with 5A backup fused plug. This plug only fit in indoor outlet or with weatherproof cover outlet.
2. The power cord is installed with female connector to connect with Extension Light.



Extension

1. With injection-moulded connectors on both ends, it can be used for light extension.
2. Multiple units can be electrically interconnected using pre-installed male connector in one end and female connector in another end for long running length (maximum 65.6ft). If no need to extend, install the attached end cap to the female connector.

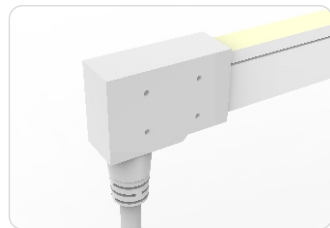
Injection-moulded
Front Connector (top end)



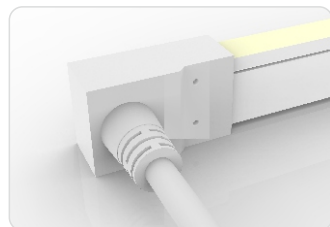
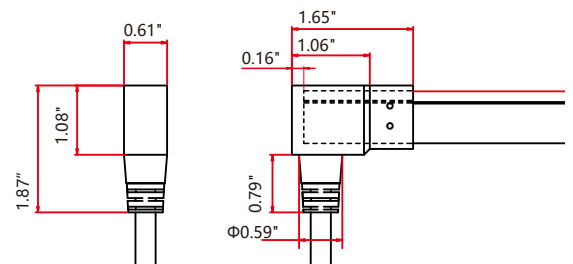
Female Connector



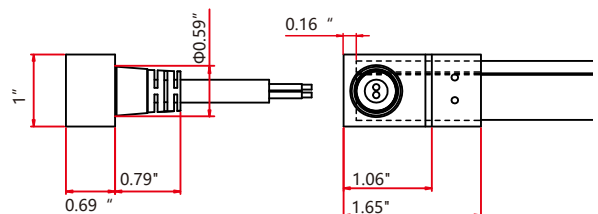
Male Connector



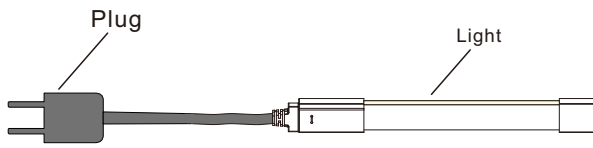
Injection-moulded
Front Connector (bottom)



Injection-moulded
Front Connector (side)



3.2 Plug & Terminal C-FR-F15B-AC120



Note: Unless otherwise stated, the tolerance of the connector is $\pm 0.02^{\circ}$.

Plug & terminal

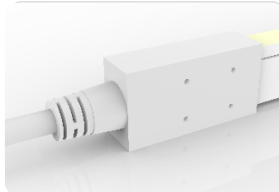
1. Factory installed injection-molded connectors, applicable for dry or wet environments.
2. 4.59ft power cord with 5A backup fused plug. This plug only fit in indoor outlet or with weatherproof cover outlet.



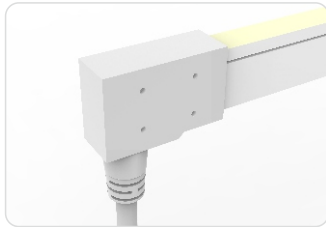
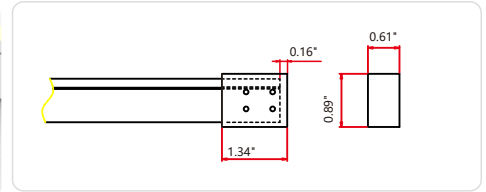
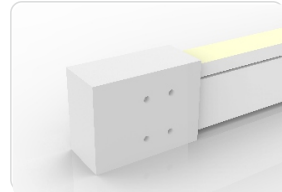
Plug



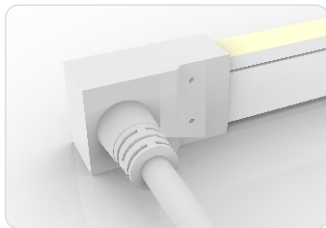
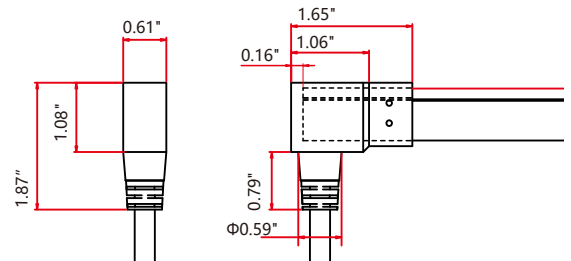
Injection-moulded Front Connector (top end)



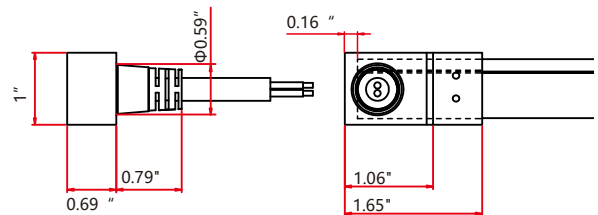
Injection-moulded End Cap



Injection-moulded Front Connector (bottom)

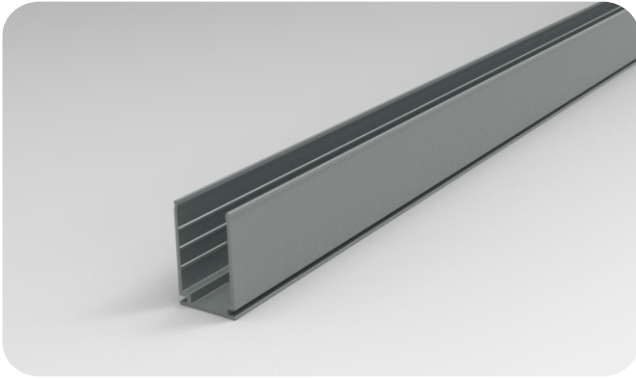


Injection-moulded Front Connector (side)



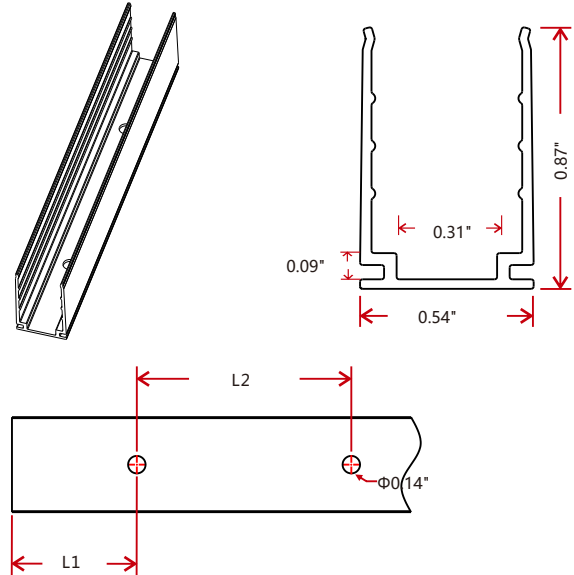
4. Mounting Profile

4.1 Standard Aluminum Profile



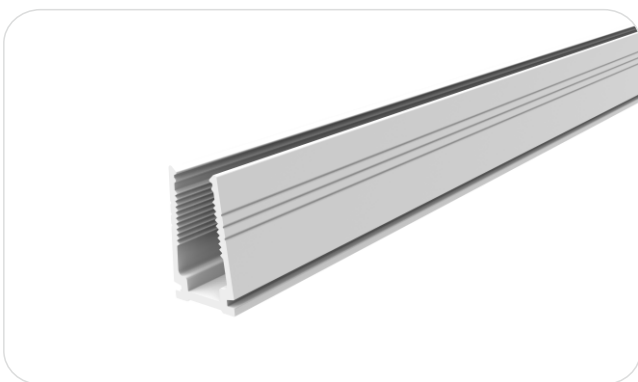
Note: Unless otherwise stated, the tolerance of the profile is $\pm 0.02"$.

Installation Way



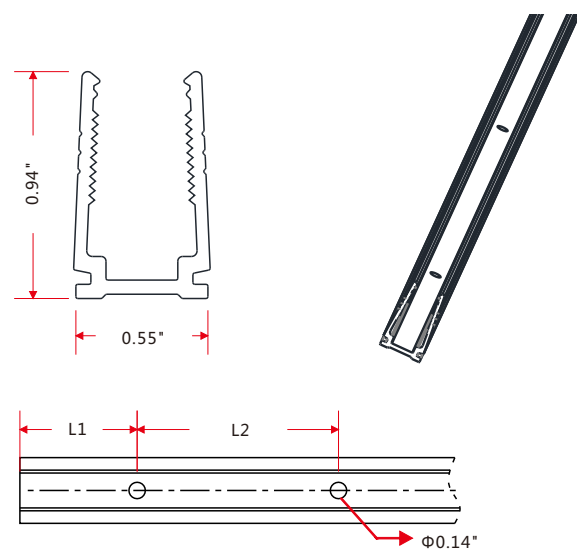
| Model | W*H(in) | Standard Length (L:in) | L1 (in) | L2 (in) | Screw Hole (Φ:in) | Hole Number |
|----------|-----------|------------------------|---------|---------|-------------------|-------------|
| F15-A/PL | 0.54*0.87 | 1.38 | 0.69 | / | Φ0.14 | 1 |
| | | 19.68 | 1.97 | 7.87 | Φ0.14 | 3 |
| | | 39.37 | 3.94 | 7.87 | Φ0.14 | 5 |
| | | 78.74 | 3.94 | 7.87 | Φ0.14 | 10 |

4.2 Plastic Profile



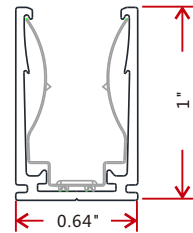
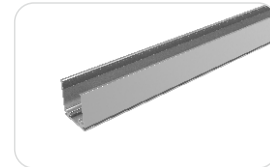
Note: Unless otherwise stated, the tolerance of the profile is $\pm 0.02"$.

Installation Way



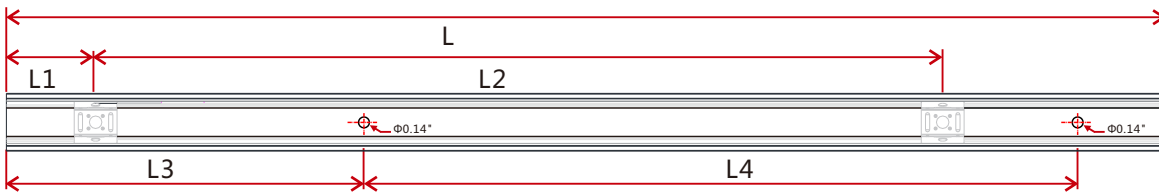
| Model | W*H(in) | Standard Length (L:in) | L1 (in) | L2 (in) | Screw Hole (Φ:in) | Hole Number |
|----------|-----------|------------------------|---------|---------|-------------------|-------------|
| F15-P/PL | 0.55*0.94 | 19.68 | 1.97 | 7.87 | Φ0.14 | 3 |
| | | 39.37 | 3.94 | 7.87 | Φ0.14 | 5 |
| | | 78.74 | 3.94 | 7.87 | Φ0.14 | 10 |

4.3 Spring Clip Aluminum Profile



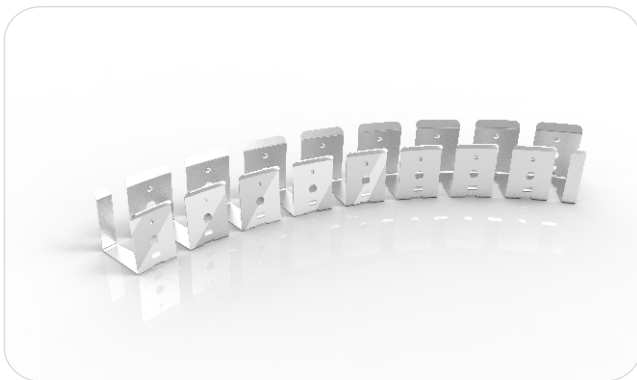
Note: Unless otherwise stated, the tolerance of the profile is ± 0.02 ".

Installation Way



| Model | W*H(in) | Standard Length(in) | L1(in) | L2(in) | L3(in) | L4(in) | Hole Screw(in) | Hole Number | Clip Number |
|------------|---------|---------------------|--------|--------|--------|--------|----------------|-------------|-------------|
| F15-SCA/PL | 0.64*1 | 1.38 | 0.67 | / | 0.19 | 0.99 | Φ0.14 | 2 | 1 |
| | | 19.69 | 0.99 | 8.86 | 1.97 | 7.87 | Φ0.14 | 3 | 3 |
| | | 39.37 | 0.99 | 9.35 | 3.94 | 7.87 | Φ0.14 | 5 | 5 |
| | | 78.74 | 0.99 | 9.6 | 3.94 | 7.87 | Φ0.14 | 10 | 9 |

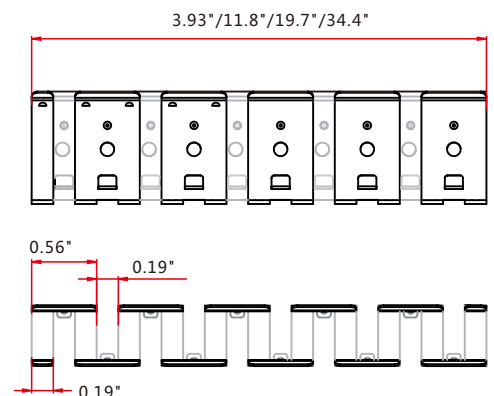
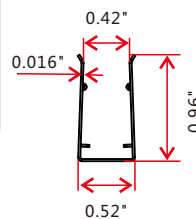
4.4 Bendable Stainless Steel Profile



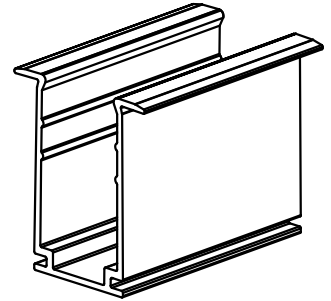
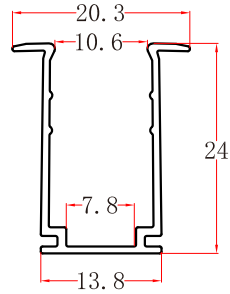
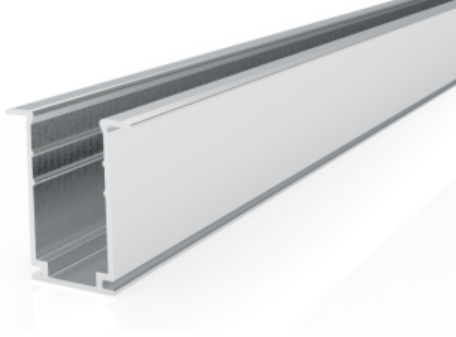
Model: F15-CS/PL

Note: Unless otherwise stated, the tolerance of the profile is ± 0.02 ".

Installation Way

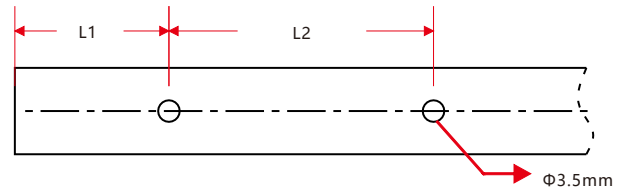


4.5 Recessed Mounting Profile



Note: Unless otherwise stated, the tolerance of the profile is $\pm 0.5\text{mm}$.

Installation Way



| Model | W*H(mm) | Standard Length (mm) | L1 (mm) | L2 (mm) | Screw Hole (mm) | Hole Number |
|------------|---------|----------------------|---------|---------|-----------------|-------------|
| F15-RMA/PL | 20.3*24 | 35 | 5 | 25 | Φ3.5 | 2 |
| | | 500 | 50 | 200 | Φ3.5 | 3 |
| | | 1000 | 100 | 200 | Φ3.5 | 5 |
| | | 2000 | 100 | 200 | Φ3.5 | 10 |