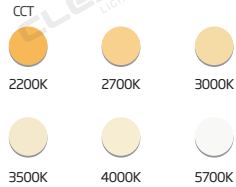


# Flexglo™ F22B Monochrome - AC230V Short Cut White Light (Silicone)



Certification Mark	CE	CE	CE	CE	CB	SAA
Test Standard/Directive	CE-LVD	CE-EMC	CE-LVD	CE-EMC	IEC 60598-1 IEC 60598-2-20	AS/NZS 60598.1 AS/NZS 60598.2.20
Certificate Serial Number	AN 50275368 0001	AE 50274407 0001	LCS19100814685	LCS1910081458E	DE 2-018301	TUV017540EA
Report Reference	17036967 001	17037105 001	LCS19100814685	LCS1910081458E	14713952 001	

**Ambient Working Temperature**  $\leq 10W/m$  -40 ~ 45°C / -40 ~ 113°F

**Ambient Installation Temperature** 0 ~ 45°C / 32 ~ 113°F

**Storage Temperature** -40 ~ 60°C / -40 ~ 140°F

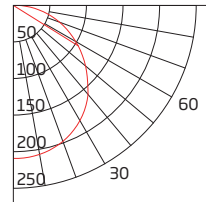
**Max. Mounting Surface Temperature** 85°C / 185°F  
*specified in the non-working state of light.*

**High Voltage** AC230V

## C-SFR-F22B-VB



C-SFR-F22B-VB-AC230V-30K-WM  
-84-80-10W-166.7

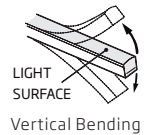
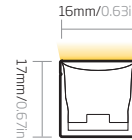


UNIT: cd  
-C90/270

AVERAGE BEAM ANGLE (50%): 113.2°

Min. Bending Diameter  
300mm/11.81in

Min. Cutting Length  
166.7mm/6.56in  
14LEDs



Bending-extreme  
2044 times

Tensile-instantaneous  
>100 kg.f

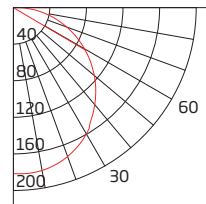
Twist-extreme  
4374 times

Warning: Extreme Destructive Tests in laboratory only, and it's forbidden to operate in practice.

## C-SFR-F22B-HB



C-SFR-F22B-HB-24CV-30K-WM  
84-80-10W-166.7

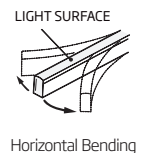
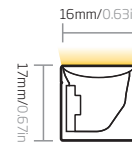


UNIT: cd  
-C90/270

AVERAGE BEAM ANGLE (50%): 112.3°

Min. Bending Diameter  
300mm/11.81in

Min. Cutting Length  
166.7mm/6.56in  
14LEDs



Bending-extreme  
2044 times

Tensile-instantaneous  
>100 kg.f

Twist-extreme  
5514 times

Warning: Extreme Destructive Tests in laboratory only, and it's forbidden to operate in practice.

Note:

- The illuminated light length shall be an integral multiple of min. cutting length.
- The waterproof reliability of the lighting fixture depends on the IP rating of connector, and please make sure connector is properly assembled before installation. The highest IP rating we can achieve is IP65.

## Item Code

C	SFR	F22B	VB	AC230	30K	WM	84	80	10W	166.7
Company	Material	Product Series	Bending Direction	Voltage & Circuit Type	CCT	Base & Lighting Surface	LEDs Qty/m	CRI	Power/m	Min. Cutting Length (mm)
Clear	SFR= (Silicone) Flex Ribbon	F22B= Monochrome	VB= Vertical Bending HB= Horizontal Bending	AC230V & High Voltage	22K=2200K 27K=2700K 30K=3000K 35K=3500K 40K=4000K 57K=5700K	WM= White & Milky	84	80	10W	166.7

## Feature

Flexglo™ F22B Monochrome - AC230V White Light (silicone) is CE certificated, and maximum length for each individual piece is up to 20m.

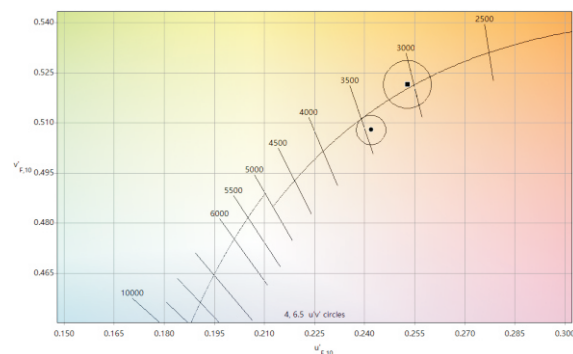
The IP65 High Voltage Injection-moulded Connector with SJTW cable is designed for outdoor use. Customized lengths with the Waterproof Male and Female Connectors improve the convenience of installation and maintenance. This product features a ultra long lifespan in outdoor application by leveraging ClearTech™ such as the Decentifier™ technology eliminating the failure risks of the whole electric circuit brought by the traditional external rectifier, the C-Mask™ technology retarding silicone discoloration and enabling consistent illumination.

## Electrical Parameter

Category	C-SFR-F22B-HB/VB
Voltage	230
Current (mA/m)	43.5
Power (W/m)	10
Circuit Type	AC
LED Type	5050
LEDs Qty/m	84
LEDs Qty/unit	14
Unit/m	6
Min. Cutting Length (mm)	166.7
Min. Cutting Length (in)	6.56

## Optical Parameter

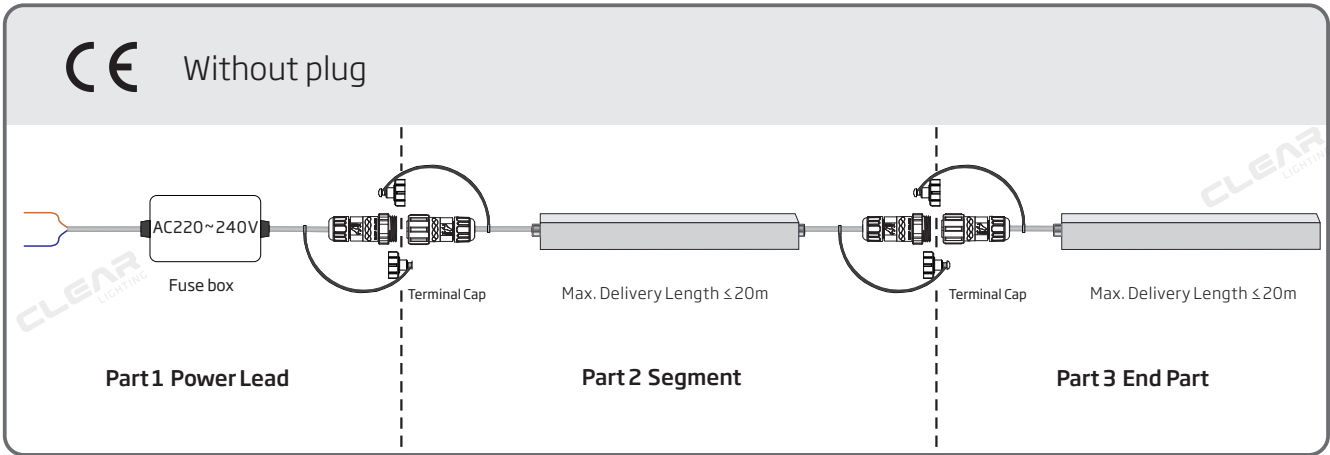
Item Code	Finished Product						LED	
	CCT	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F22B-VB-AC230V-22K-WM-84-80-10W-166.7	2200K	2238±102K	<6SDCM	80	500lm	152lm	<2.3SDCM	82~87
C-SFR-F22B-VB-AC230V-27K-WM-84-80-10W-166.7	3700K	2725±145K	<6SDCM	80	500lm	152lm	<2.3SDCM	82~87
C-SFR-F22B-VB-AC230V-30K-WM-84-80-10W-166.7	3000K	3045±175K	<6SDCM	80	500lm	152lm	<2.3SDCM	82~87
C-SFR-F22B-VB-AC230V-35K-WM-84-80-10W-166.7	3500K	3465±245K	<6SDCM	80	500lm	152lm	<2.3SDCM	82~87
C-SFR-F22B-VB-AC230V-40K-WM-84-80-10W-166.7	4000K	3985±275K	<6SDCM	80	500lm	152lm	<2.3SDCM	82~87
C-SFR-F22B-VB-AC230V-57K-WM-84-80-10W-166.7	5700K	5669±355K	<6SDCM	80	500lm	152lm	<2.3SDCM	82~87
C-SFR-F22B-HB-AC230V-22K-WM-84-80-10W-166.7	2200K	2238±102K	<6SDCM	80	450lm	137lm	<2.3SDCM	82~87
C-SFR-F22B-HB-AC230V-27K-WM-84-80-10W-166.7	2700K	2725±145K	<6SDCM	80	450lm	137lm	<2.3SDCM	82~87
C-SFR-F22B-HB-AC230V-30K-WM-84-80-10W-166.7	3000K	3045±175K	<6SDCM	80	450lm	137lm	<2.3SDCM	82~87
C-SFR-F22B-HB-AC230V-35K-WM-84-80-10W-166.7	3500K	3465±245K	<6SDCM	80	450lm	137lm	<2.3SDCM	82~87
C-SFR-F22B-HB-AC230V-40K-WM-84-80-10W-166.7	4000K	3985±275K	<6SDCM	80	450lm	137lm	<2.3SDCM	82~87
C-SFR-F22B-HB-AC230V-57K-WM-84-80-10W-166.7	5700K	5669±355K	<6SDCM	80	450lm	137lm	<2.3SDCM	82~87



### Color Matching

Color temperature value stated on all CLEAR's documents refers to finished products. LED's color temperature would be shifted by the light diffuser made of PVC or silicone material. CLEAR calibrates color temperature and color coordinate of tailor-made LEDs with proprietary color-matching algorithms to produce a precise color temperature and color coordinate close to black body locus for finished products. All LEDs would be strictly tested and tightly controlled to ensure finished products can meet ANSI standard.

# Flexglo™ F22B-AC230V Wiring Diagram (Silicone)

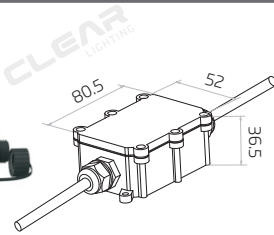


## Part 1 Power Lead



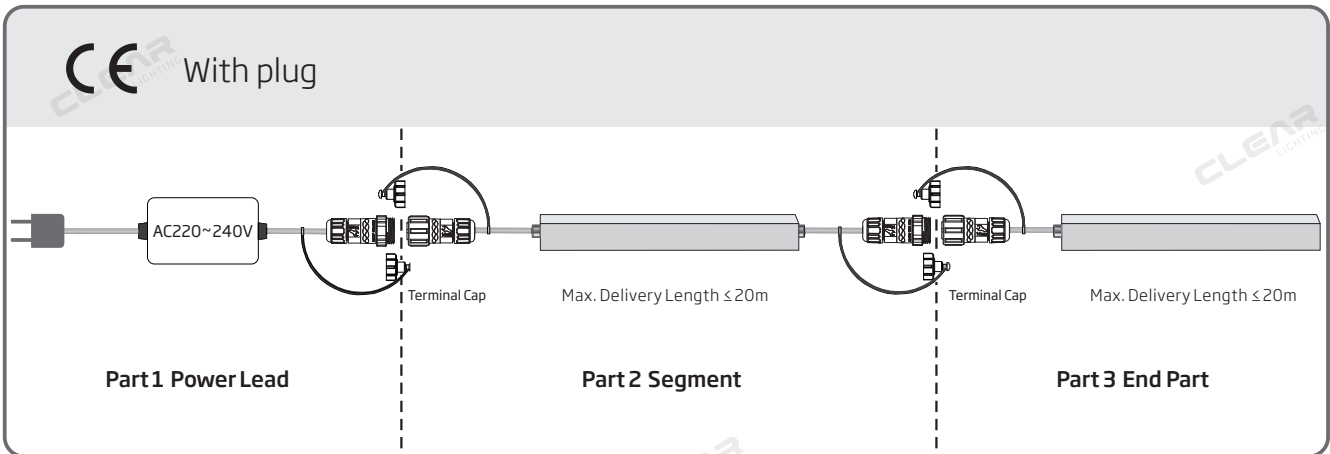
### Item Code

PL-AC230-FBox-1800MM



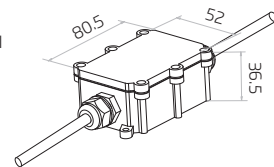
Tolerance: ±2mm

1. It's H05RN-F 2x1.0mm<sup>2</sup> cable. 1.4m and 0.3m standard cable lengths before and after the fuse box correspondingly, and custom cable length is optional, while total length of cable and light shall be within 82m considering the voltage drop.
2. Fuse box is connected with junction box and light at both ends.
3. It's forbidden to open the fuse box in the process of installation and use.



## Part 1 Power Lead

1. It's H05RN-F 2x1.0mm<sup>2</sup> cable. 1.4m and 0.3m standard cable lengths before and after the fuse box correspondingly, and custom cable length is optional, while total length of cable and light shall be within 82m considering the voltage drop.
2. Fuse box is connected with junction box and light at both ends.
3. It's forbidden to open the fuse box in the process of installation and use.
4. 3 types of power plugs including Europe, Australia and United Kingdom are available.



Tolerance: ±2mm



### Item Code (Europe)

PL-AC230-GER-Plug-FBox-1800MM



### Item Code (Australia)

PL-AC240-AU-Plug-FBox-1800MM



### Item Code (United Kingdom)

PL-AC240-UK-Plug-FBox-1800MM



### ● Part 1

Two types of certifications are optional. Please connect this part with Part 2 or Part 3 according to the specific certification of the product.

### ● Part 2

The both ends are attached with high voltage injection-moulded front connectors and respectively equipped with male and female connectors, which can be used as an extension for Part 1.

### ● Part 3

The both ends are attached with high voltage injection-moulded front connector (same cable entry as Part 2) equipped with female connector and end cap respectively. The overall IP rating is secured up to IP65 after the assembly is finished.

### Note:

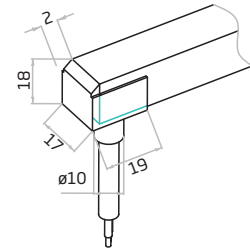
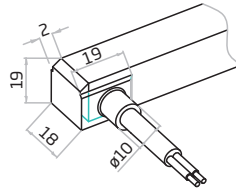
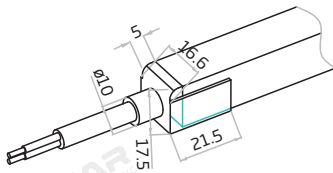
1. The products will be made and preassembled in compliance with the required certificate and lengths, and any cutting or disassembly on site is forbidden.
2. Attention should be paid that all unconnected female connectors shall be sealed with terminal caps.

## Part 2 Segment



1. Out of the convenience of installation and maintenance, max. delivery length is 20m each light, and up to 80m in series connection.
2. It's H05RN-F 2x1.0mm<sup>2</sup> cable. 0.3m standard or custom cable length is optional, while total length of cable and light shall be within 82m considering the voltage drop.
3. Please seal the last connector by the terminal cap to make it waterproof.
4. 3 types of cable entry including End, Side, and Bottom are available.

End Cable Entry	Side Cable Entry	Bottom Cable Entry
Item code	Item code	Item code
F22B-SIM/MC-HV-CE&ETL-E-300MM	F22B-SIM/MC-HV-CE&ETL-S-300MM	F22B-SIM/MC-HV-CE&ETL-B-300MM



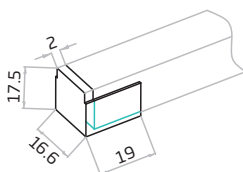
Note: unless otherwise stated, the tolerance is  $\pm 0.5\text{mm}$ . To avoid damage from the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

## Part 3 End Part



1. Out of the convenience of installation and maintenance, max. delivery length is 20m each light.
2. It's H05RN-F 2x1.0mm<sup>2</sup> cable. 0.3m standard or custom cable length is optional, while total length of cable and light shall be within 82m considering the voltage drop.
3. 3 types of cable entry including End, Side, and Bottom are available.

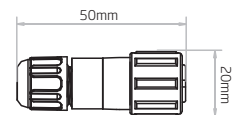
End Cable Entry	Side Cable Entry	Bottom Cable Entry
Item code	Item code	Item code
F22B-SIM/EC-HV-CE&ETL-E-300MM	F22B-SIM/EC-HV-CE&ETL-S-300MM	F22B-SIM/EC-HV-CE&ETL-B-300MM



Female Connector



Male Connector



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

For plug and play cable junction, IP65

Tolerance  $\pm 2\text{mm}$