Flexglo[™] F21D Dynamic Light (Silicone)



2200K~5700k

C-SFR-F21D-HB

Certification Mark	(UL)	C€	
Test Standard/Directive	UL2108 Class 2	CE-EMC	Contract Contract
Certificate Serial Number	20180801-E360029	SZEM1712012372LMV	CL. W.
Report Reference	E360029-20130322	SZEM171201237201	
Ambient Working Temperature ≤12W/m -40 ~ 55°C/-40~131°F	Ambient Installat ≥ −40°C /-40°F	tion Temperature	Storage Temperature -40 ~ 60°C /-40~140°F
Max. Mounting Surface Temperature 85°C /185°F specified in the non-working state of light	LV DC24V	2	
2-SFR-F21D-HB-24CC-22~57K- WM-144-80-12W-83.3	 Min. Bending Diameter 120mm/4.72in Min. Cutting Length 83.3mm/3.28in 6+6LEDs 	29mm/114is 11.5mm/0.45in	LIGHT SURFACE
120 150 30 UNIT: cd -C90/270 0	Bending-extreme 401 times	Tensile-instantaneous >60 kg.f	Twist-extreme 9844 times

AVERAGE BEAM ANGLE (50%); 147.9°

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

Note

1. The illuminated light length shall be an integral multiple of min. cutting length.

2. 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 IP68.

Feature

Flexglo™ F21D Dynamic Light (Silicone) is tunable from 2200K to 5700K or other colors, and dim to warm are optional, setting the harmonious tone for the surrounding space. Thanks to the excellent weatherproof and UVresistant performance of silicone material, it features a wide ambient working temperature range of -40-55 °C, especially suitable for harsh environment application.

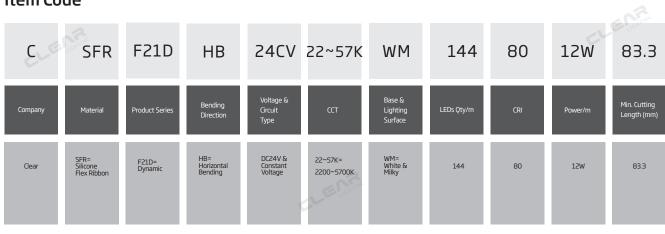
Are- V State

Item Code

Multiple connector options are available for different applications. Combined with the adoption of the DryWire™ technology, *The IP68 Injection-moulded Connector is engineered for outdoor use, owing to its elegant appearance and strong adhesiveness acquired by the liquid silicone injection workmanship.

*The IP67 Field Assembly Connector, which is underpinned by the Insulfit™ technology that enables quick assembly in the field along with waterproof reliability (proper assembly required).

This product features a ultra long lifespan in outdoor application by leveraging other ClearTech™ such as the PinBoost™ technology enhancing physical reliability of light engine, the TwinFlex[™] technology improving the conductivity and optimizing heat dissipation performance, the C-Mask[™] technology making the light body self-cleaning and anti-UV and enabling consistent illumination.



Electrical Parameter

Category	C-SFR-F21D-HB	
Voltage	24	
Current (mA/m)	500.0	
Power (W/m)	12	Elication
Circuit Type	CV	CC
LED Type	3014	
LEDs Qty/m	144	
LEDs Qty/unit	12(6+6)	
Unit/m	12	
Min. Cutting Length (mm)	83.3	
Min. Cutting Length (in)	3.28	
	-LC unine	

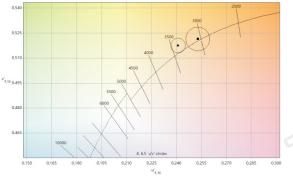
Optical Parameter

Item Code	Finished Product					LED		
	ССТ	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F21D-HB-24CV-22~57K-WM-144-80-12W-83.3 -	2200K	2238±102K	<5SDCM	80	170lm	52lm	<2.3SDCM	82~87
	5700K	5669±355K	<5SDCM	80	210lm	64lm	<2.3SDCM	82~87

Note:

1. CCT Tolerance refers to target CCT and tolerance (ANSI C78.377).

2. Color Tolerance refers to CLEAR standard for finished product and LED.



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.

Max. Running Length Input: DC24V

CLE Com			8 ² 11 12 13 12 13 12 15 12 15 12 15 12 15	CLE Part
Туре	Silicone Injection	-moulded Connector		
IP Rating	IP	68		
Item Code	Single-end Feed	Double-end Feed		
C-SFR-F21D-12W-Static full loading	15m	30m		
C-SFR-F21D-12W-Dynamic operating	20m	40m		

Note:

connector.

Above conclusion is based on voltage drop testing result of the light with 0.3m cable only.

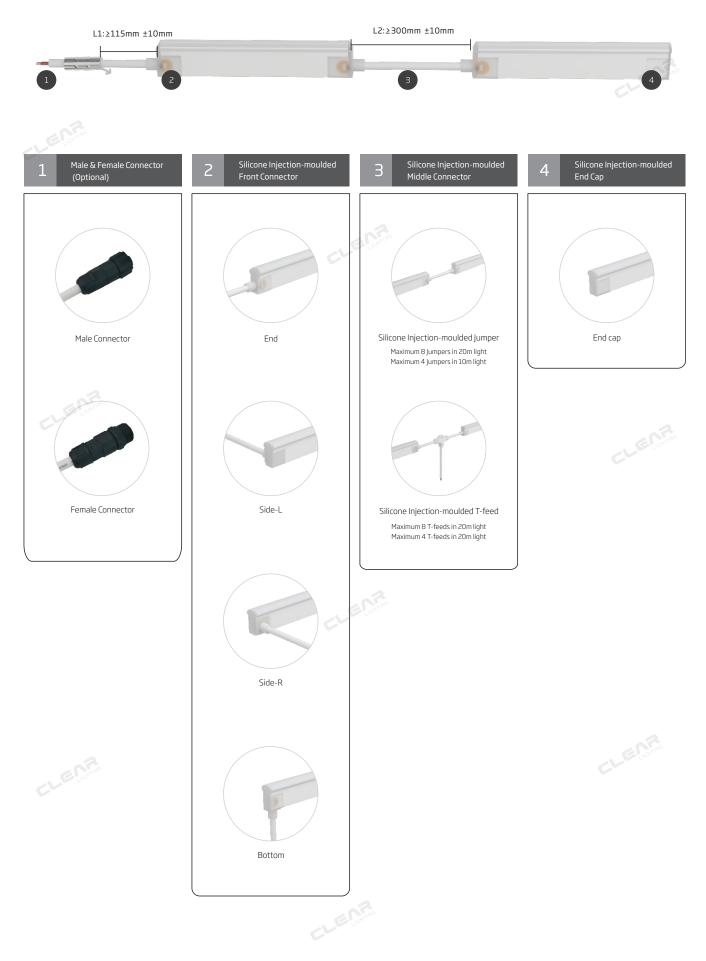
^{2.} The maximum running length is based on the light in static full loading status exceptionally stated dynamic operating.

^{3.} Above running length is only the light length excluding lengths of connectors. Please refer to the specific dimension of each

^{4.} The delivery length might be subject to the maximum packing length.

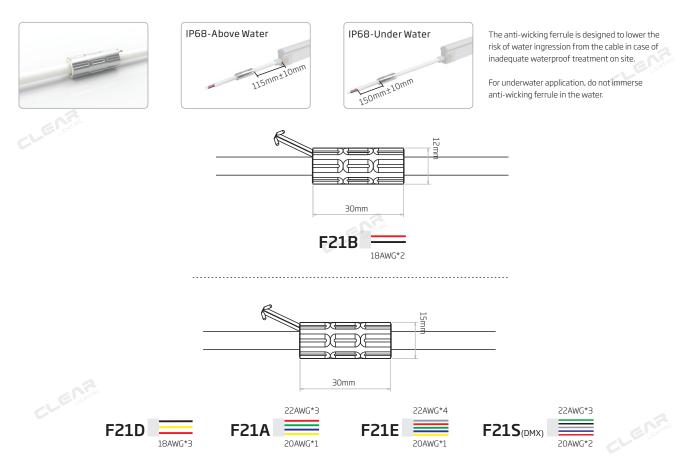
Connector Type





Anti-wicking Ferrule





Note:

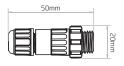
1. Unless otherwise stated, the tolerance is ± 0.5 mm.

2. The removal of anti-wicking ferrule will void the warranty if any water ingression caused by it.

Male & Female Connector



For plug and play cable junction, IP67





Note: Unless otherwise stated, the tolerance is ±2mm.



Aluminum Profile



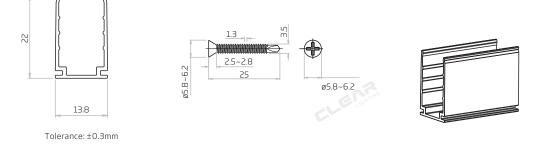


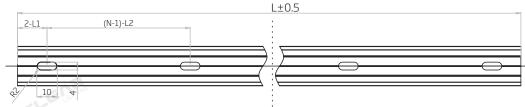
It uses high-quality 6063 aluminum with thin-wall, light- weight design to fit tightly the light body. It is deformation and rust resistant, and cost-effective.

Please refer to the applicable installation ways.

Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined
Dimension: mm			CLE Com

Dimension: mm







Note:

1. 2-L1 refers to two of symmetric L1 in each piece of profile.

2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.

Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
F21-A/PL-35MM-AL	35mm/1.38in	17.5mm/0.69in	/	4*10mm/0.16*0.39in	1
F21-A/PL-500MM-AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
F21-A/PL-1000MM-AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
F21-A/PL-2000MM-AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

Flange Aluminum Profile

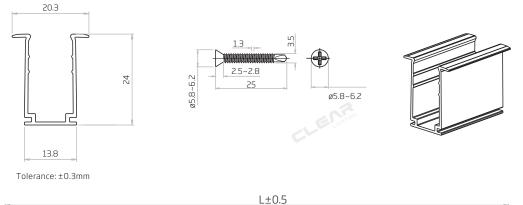


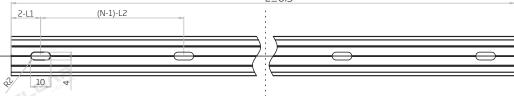
It uses high-quality 6063 aluminum with thin-wall, light- weight design to fit tightly the light body. It is deformation and rust resistant, and cost-effective. The "Flange" design is more suitable for recessed installation, better fits with the mounting groove and minimizes the operation tolerance during construction to some extent, like shielding the rough edges and the gaps of oversized groove.

Please refer to the applicable installation ways.

Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined
Dimension: mm			ELE Cortac

Dimension: mm







Note:

1. 2-L1 refers to two of symmetric L1 in each piece of profile.

2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.

Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
F21-FA/PL-35MM-AL	35mm/1.38in	17.5mm/0.69in	/	4*10mm/0.16*0.39in	1
F21-FA/PL-500MM-AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	З
F21-FA/PL-1000MM-AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
F21-FA/PL-2000MM-AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

Serrated Aluminum Profile

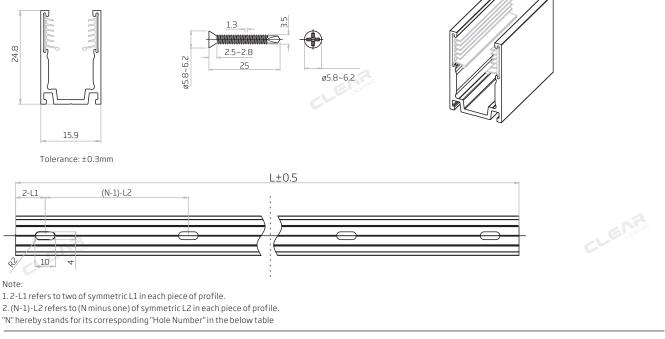


Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large friction in the process of installation and dismantlement.

Please refer to the applicable installation ways.

Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined

Dimension: mm



Item Code	Standard Length	Ц1	L2	Slotted Hole	Hole Number
F21-SA/PL-20MM-AL	20mm/0.787in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
F21-SA/PL-500MM-AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	З
F21-SA/PL-1000MM-AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
F21-SA/PL-2000MM-AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

Flange Serrated Aluminum Profile



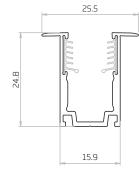
Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large friction in the process of installation and dismantlement.

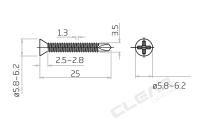
The "Flange" design is more suitable for recessed installation, better fits with the mounting groove and minimizes the operation tolerance during construction to some extent, like shielding the rough edges and the gaps of oversized groove.

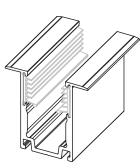
Please refer to the applicable installation ways.

		Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined

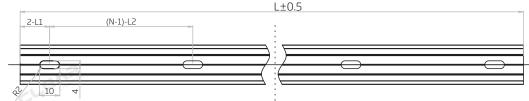
Dimension: mm







Tolerance: ±0.3mm





Note:

1. 2-L1 refers to two of symmetric L1 in each piece of profile.

2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.

Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
F21-FSA/PL-20MM-AL	20mm/0.787in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
F21-FSA/PL-500MM-AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	З
F21-FSA/PL-1000MM-AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
F21-FSA/PL-2000MM-AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

F21 Thickened Plastic Profile



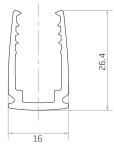
It uses thickened PC profile to 3mm thickness, specialized for underwater application up to 2m depth, and has excellent properties in rust, corrosion and fracture resistance.

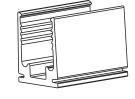
Please refer to the applicable installation ways.

Test Object	No.	Experiment Item	Standard
Mounting profile	1	Clamping force	CLEAR-defined
CLE Com			

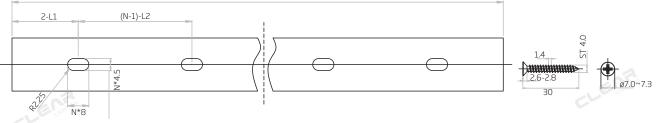
Dimension: mm











Note:

1. 2-L1 refers to two of symmetric L1 in each piece of profile.

2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.

F21-TP/PL-35MM-TT 35mm/1.38in 17.5mm/0.69in / 4.5*8mm/0.18*0.31in 1 F21-TP/PL-500MM-TT 500mm/19.68in 50mm/1.97in 200mm/7.87in 4.5*8mm/0.18*0.31in 3 F21-TP/PL-1000MM-TT 1000mm/39.37in 100mm/3.93in 200mm/7.87in 4.5*8mm/0.18*0.31in 5 F21-TP/PL-2000MM-TT 2000mm/78.74in 100mm/3.93in 200mm/7.87in 4.5*8mm/0.18*0.31in 5	Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
F21-TP/PL-1000MM-TT 1000mm/39.37in 100mm/3.93in 200mm/7.87in 4.5*8mm/0.18*0.31in 5	F21-TP/PL-35MM-TT	35mm/1.38in	17.5mm/0.69in	/	4.5*8mm/0.18*0.31in	1
	F21-TP/PL-500MM-TT	500mm/19.68in	50mm/1.97in	200mm/7.87in	4.5*8mm/0.18*0.31in	3
F21-TP/PL-2000MM-TT 2000mm/78.74in 100mm/3.93in 200mm/7.87in 4.5*8mm/0.18*0.31in 10	F21-TP/PL-1000MM-TT	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4.5*8mm/0.18*0.31in	5
	F21-TP/PL-2000MM-TT	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4.5*8mm/0.18*0.31in	10

F21 Stainless Steel Profile

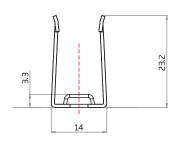


It uses grade 316 stainless steel with excellent property of deformation and rust resistance. The material makes it suitable for humid coastal surroundings and weak acid-base industrial environments that other mounting profiles can't accommodate. The structural design and material characteristics collectively ensure a tight clamping force. It's very convenient and reliable even for suspended installation in the curve shape.

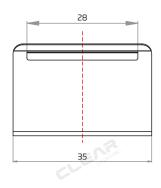
Please refer to the applicable installation ways.

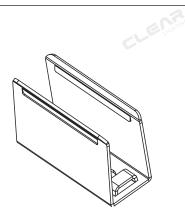
Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined

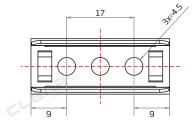
Dimension: mm

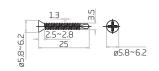


Tolerance: ±0.3mm





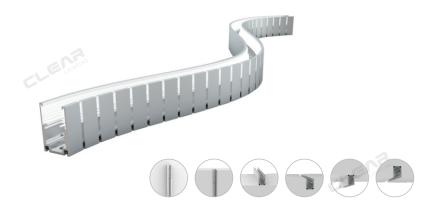






Item Code	Standard Length	Screw Hole	Hole Number	
F21-SS/PL-35MM-SSL	35mm/1.378in	ø4.5mm/0.18in	3	

Bendable Serrated Aluminum Profile

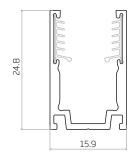


It is an expanded design of the serrated aluminum profile, and caters for the continuously streamlined aesthetics of curve shape. The secondary precision cutting process, not only maintains the advantage of clamping force, but also enables the two-way horizontal bending directions with super shape memory.

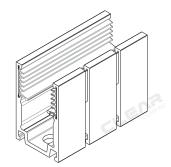
Please refer to the applicable installation ways.

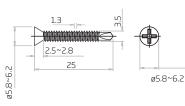
Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined
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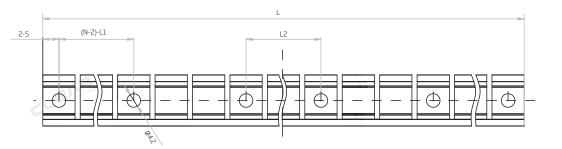
Dimension: mm



Tolerance: ±0.3mm









Note:

1. 2-5 refers to two of symmetric 5mm in each piece of profile.

2. (N-2)-L1 refers to (N minus two) of symmetric L1 in each piece of profile. "N" hereby stands for its corresponding "Hole Number" in the below table

Item Code Standard Length L2 Screw Hole Hole Number L1 F21-BSA/PL-500MM-AL 500mm/19.68in 110.3mm/4.34in 48.9mm/1.92in ø4.2mm/0.17in 6 F21-BSA/PL-1000MM-AL 1000mm/39.37in 116.5mm/4.59in 98.8mm/3.89in ø4.2mm/0.17in 10

Installation Instructions

Friendly Reminder: please read instructions carefully before operation.

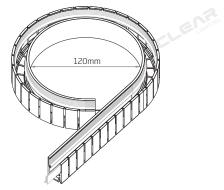
Bending Diameter

Min. Bending Diameter (Toothed Side inwards)





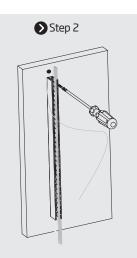
Min. Bending Diameter (Toothed Side outwards)



Installation



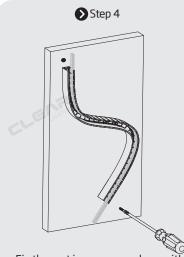
Mark the required shape on the mounting surface or print the sketch in the scale of 1:1 if complicated.



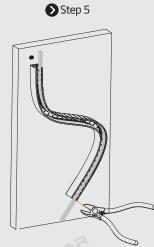
Get the front connector outside of profilel and keep at least 10mm more apart. Fix the screw starting from the power input end.



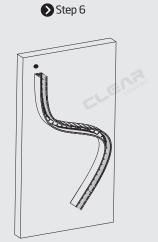
Use cylinder or disc-like object you have to assist with shaping.



Fix the rest in sequence along with the marks.



Adjust the serrate silicone tape and remove the redundant lengths at both ends.



Finish and fix the light in.