Flexglo[™] F21E RGBW Light (Silicone)











IK10 Protection







Ambient Working Temperature ≤15W/m -40 ~ 45°C /-40~113°F



Ambient Installation Temperature **-40°C /**-40°F



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



Max. Mounting Surface Temperature **85°C** /185°F



Constant Voltage DC24V

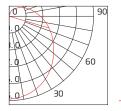


specified in the non-working state of light.

C-SFR-F21E-HB







UNIT: cd -090/270 Min. Bending Diameter 120mm/4.72in



Bending-extreme

1313 times

Min. Cutting Length 100mm/3.94in 6LEDs



Tensile-instantaneous







Twist-extreme 2003 times

AVERAGE BEAM ANGLE (50%): 151.1°

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

- 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™ F21E RGBW Light (Silicone) is a color changing product with qua-chip SMD5050 RGBW LEDs as light source, an ideal product for project where premium LED is required. RGBW color changing is achievable via a 4 channel PWM controller or any compatible DMX-512 controller, and 2700K and 4000K in white color are optional.

Thanks to the excellent weatherproof and UV-resistant performance of silicone material, it features a wide ambient working temperature range of -40-55 °C, especially suitable for harsh environment application.

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.

 $This product features \ a \ ultra \ long \ lifespan \ in \ outdoor \ application \ by \ leveraging \ other \ Clear Tech^{\ m} \ such \ as \ the \ PinBoost^{\ m} \ technology$ 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.

Item Code





Electrical Parameter

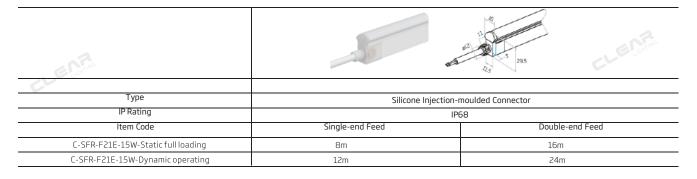
Category	C-SFR-F21E-HB
Voltage	24
Current (mA/m)	625.0
Power (W/m)	15
Circuit Type	CV
LED Type	5050
LEDs Qty/m	60
LEDs Qty/unit	6
Unit/m	10
Min. Cutting Length (mm)	100
Min. Cutting Length (in)	3.94

Optical Parameter

ltem Code	Finished Product				LED			
Item Code	Color	Wavelength /CCT	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
2	Red	618-624nm			60lm	18Im	<3nm	
C CED FOIE UP DAGY PERMITTIN NAME OF 1EW 100	Green	522-530nm			140lm	43lm	<3nm	
C-SFR-F21E-HB-24CV-RGBW(27K)-WM-60-15W-100-	Blue	468-474nm			30lm	9lm	<3nm	, Cinic
	White	2725±145K	<5SDCM	80	140lm	43lm	<2.3SDCM	82~87
	Red	618-624nm			60lm	18lm	<3nm	
- C CED F34F UD 346V DCDW/30V WM C0 15W 100	Green	522-530nm			140lm	43lm	<3nm	
C-SFR-F21E-HB-24CV-RGBW(30K)-WM-60-15W-100-	Blue	468-474nm			30lm	9lm	<3nm	
	White	3045±140K	<5SDCM	80	140lm	43lm	<2.3SDCM	82~87
	Red	618-624nm					<3nm	
C-SFR-F21E-HB-24CV-RGBW(40K)-WM-60-15W-100-	Green	522-530nm					<3nm	
	Blue	468-474nm	16HTING				<3nm	
	White	3985±275K	<5SDCM	80			<2.3SDCM	

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

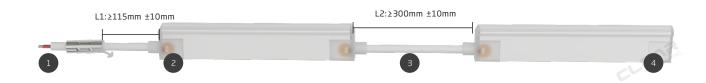
Max. Running Length Input: DC24V

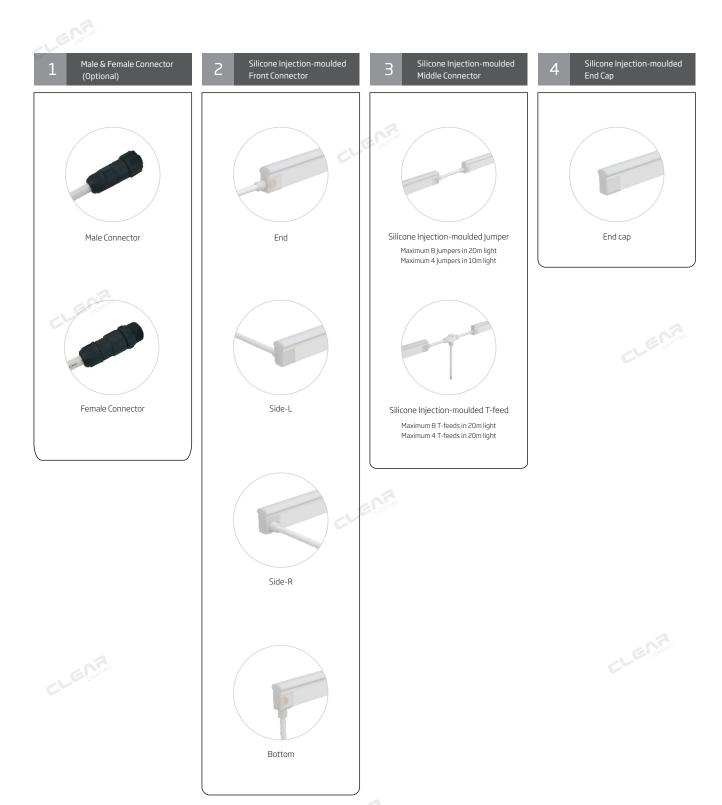


- Above conclusion is based on voltage drop testing result of the light with 0.3m cable only.
 The maximum running length is based on the light in static full loading status exceptionally stated dynamic operating.
 Above running length is only the light length excluding lengths of connectors. Please refer to the specific dimension of each
- 4. The delivery length might be subject to the maximum packing length.

Connector Type

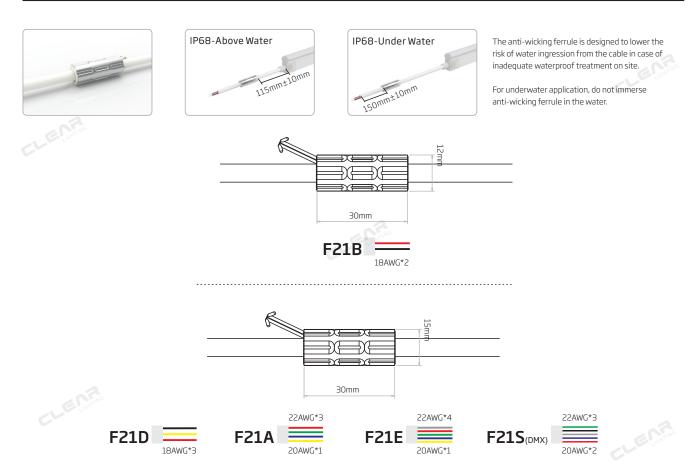






CLE

Anti-wicking Ferrule



Note:

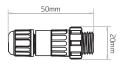
- 1. Unless otherwise stated, the tolerance is ± 0.5 mm.
- $2. The \ removal \ of \ anti-wicking \ ferrule \ will \ void \ the \ warranty \ if \ any \ water \ ingression \ caused \ by \ it.$

Male & Female Connector



For plug and play cable junction, IP67









Aluminum Profile



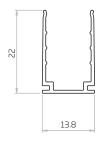


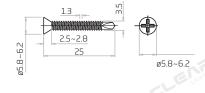
It uses high-quality 6063 aluminum with thin-wall, light- weight design to fit tightly the light body. It is deformation and rust resistant, and cost-effective.

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 MAR

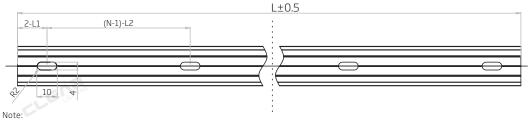
Dimension: mm







Tolerance: ±0.3mm



- 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.
- "N" hereby stands for its corresponding "Hole Number" in the below table

Item Code	Standard Length	Ц	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

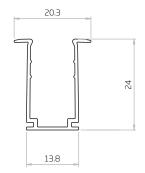


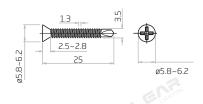


Please refer to the applicable installation ways.

Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined
C			TEVE
)imension: mr	n		

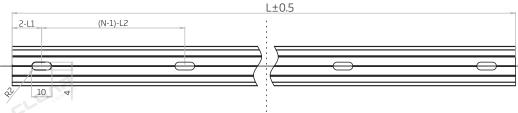
Dimension: mm







Tolerance: ±0.3mm



- 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. "N" hereby stands for its corresponding "Hole Number" in the below table

	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	3
-	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

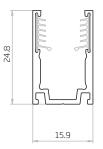
Serrated Aluminum Profile

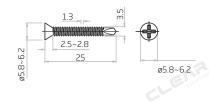


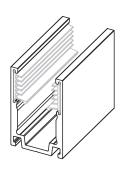
Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large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

Please refer to the applicable installation ways.

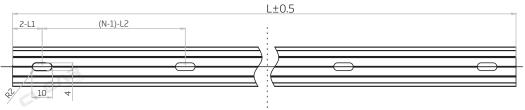
Dimension: mm







Tolerance: ±0.3mm



- $1.\,2\text{-L1}\,refers\,to\,two\,of\,symmetric\,L1\,in\,each\,piece\,of\,profile.$
- 2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile. "N" hereby stands for its corresponding "Hole Number" in the below table

Item Code	Standard Length	L1	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	3
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



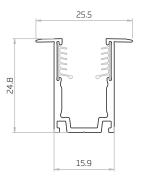
Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large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

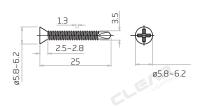
The "Flange" design is more suitable for recessed installation, better fits with the mounting groove and minimizes the operation tolerance during construction to some extent, like shielding the rough edges and the gaps of oversized groove.

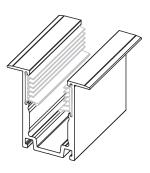
Please refer to the applicable installation ways.

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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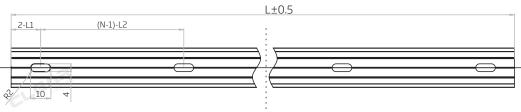
Dimension: mm







Tolerance: ±0.3mm



- $1.\,2\text{-L1 refers to two of symmetric L1 in each piece of profile}.$
- $2.\,(N-1)-L2\,refers\,to\,(N\,minus\,one)\,of\,symmetric\,L2\,in\,each\,piece\,of\,profile.$
- "N" hereby stands for its corresponding "Hole Number" in the below table

	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	3
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

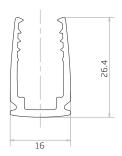


It uses thickened PC profile to 3mm thickness, specialized for underwater application up to 2m depth, and has excellent properties in rust, corrosion and fracture resistance.

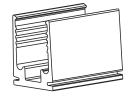
Please refer to the applicable installation ways.

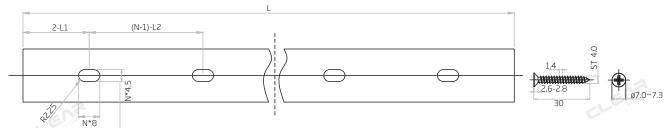
Test Object	No.	Experiment Item	Standard
Mounting profile	1	Clamping force	CLEAR-defined

Dimension: mm









- 1. 2-L1 refers to two of symmetric L1 in each piece of profile.
- $2.\,(N-1)-L2\,refers\,to\,(N\,minus\,one)\,of\,symmetric\,L2\,in\,each\,piece\,of\,profile.$
- "N" hereby stands for its corresponding "Hole Number" in the below table

Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
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	10

F21 Stainless Steel Profile

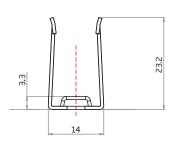


It uses grade 316 stainless steel with excellent property of deformation and rust resistance. The material makes it suitable for humid coastal surroundings and weak acid-base industrial environments that other mounting profiles can't accommodate. The structural design and material characteristics collectively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

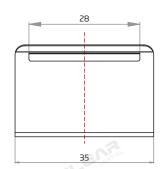
Please refer to the applicable installation ways.

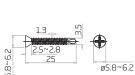
Test Object	No.	Experiment Item	Standard	
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11	
Mounting profile	2	Clamping force	CLEAR-defined	

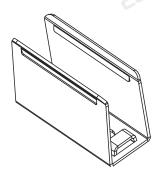
Dimension: mm



Tolerance: ±0.3mm



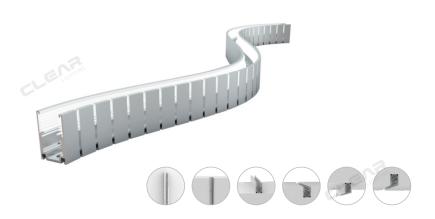






Item Code	Standard Length	Screw Hole	Hole Number	
F21-SS/PL-35MM-SSL	35mm/1.378in	ø4.5mm/0.18in	3	

Bendable Serrated Aluminum Profile

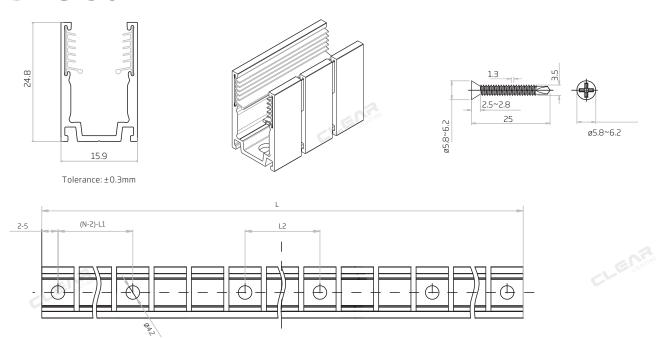


It is an expanded design of the serrated aluminum profile, and caters for the continuously streamlined aesthetics of curve shape. The secondary precision cutting process, not only maintains the advantage of clamping force, but also enables the two-way horizontal bending directions with super shape memory.

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	
			CLENT	

Dimension: mm



- 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

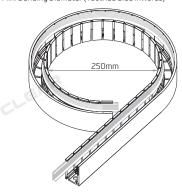
ltem Code	Standard Length	ш	L2	Screw Hole	Hole Number
F21-BSA/PL-500MM-AL	500mm/19.68in	110.3mm/4.34in	48.9mm/1.92in	ø4.2mm/0.17in	6
F21-BSA/PL-1000MM-AL	1000mm/39.37in	116.5mm/4.59in	98.8mm/3.89in	ø4.2mm/0.17in	10

Installation Instructions

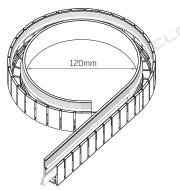
Friendly Reminder: please read instructions carefully before operation.

Bending Diameter

Min. Bending Diameter (Toothed Side inwards)



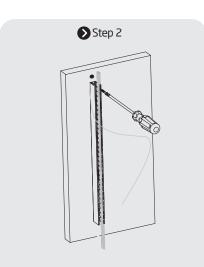
Min. Bending Diameter (Toothed Side outwards)



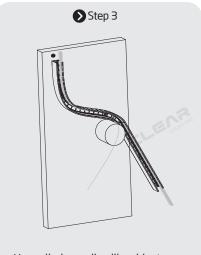
Installation



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.

Step 6

