

C-FR-F22D (Dynamic White)

Introduction-PVC

C-FR-F22D is a new member of the Artist of Light series coupled with intelligent LEDs for dynamic white, which enable you to replace a variety of lighting sources and implement a lighting design consistently and efficiently that responds to your undefined and specific needs.

C-FR-F22D is UL/cUL, CE, TUV and RoHS compliant. **UL2108 - not for human inhabitants.**

Moreover, it has passed rigorous 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, assembled with multiple patented connectors to achieve IP68 protection; easy for installation and applicable for various circumstances.

C-FR-F22D can vary color temperature from 2200K to 5700K with smooth illumination and small bend diameter in both horizontal and vertical bending direction.

Applications:

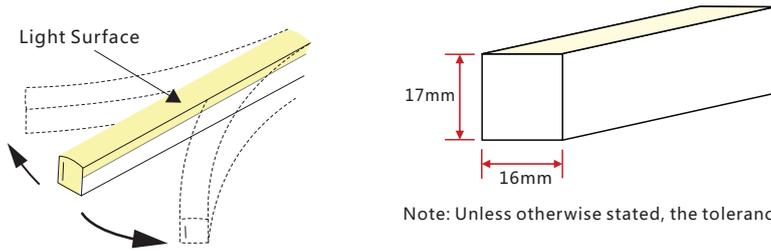
1. Outdoor or Indoor Contour/Border Lighting
2. Architectural Outline/Decorative Lighting
3. Cove/Accent Lighting
4. Facade/Terrace Floor Lighting
5. Display Lighting

1. Specifications & Parameters



1.1 Dimensions of Light

C-FR-F22B-HB

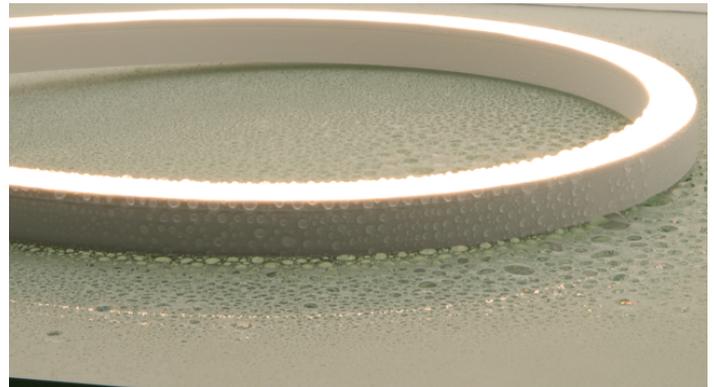


Note: Unless otherwise stated, the tolerance of the light is $\pm 0.3\text{mm}$.

1.2 Technical Parameters

Code: C-FR-F22D-HB-24CV-W/WW

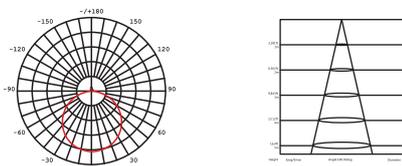
Technical Parameters	
Article No.	C-FR-F22D-24CV
Color	W/WW
Working Voltage	DC24V
Rated Power/m	12W
LED Qty/m	144LEDs
LED Distance	13.89mm
Min. Cutting Unit	12LEDs (1 unit)
Min. Cutting Length	83.3mm(1 unit)
Continuous Length	10m
Weight/m	350g
Storage Temperature	-20~60°C
Ambient Working Temperature	-20~45°C
Ambient Installation Temperature	0~45°C
IP Rating	IP68



1.3 Optical Parameters

Photometric Data			
Article No.	C-FR-F22D-24CV		
LED Type	SMD		
Beam Angle 50%	120°		
Color	CCT	Lumen/m	Power/m
WW	2460 \pm 120K	>180lm	
W	5029 \pm 283K	>180lm	
W+WW	3465 \pm 245K	>360lm	12w

Candle power distribution Illuminance Characteristics



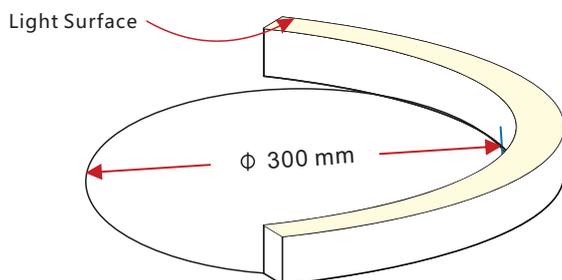
2. Functions & Features

2.1 Product Features

1. Dynamic white system with adjustable color temperature from 2,200K to 5,700K.
2. High quality SMD LED chip.
3. UV & flame resistant construction (PVC).
4. Perfect uniform & smooth illumination with invisible light dots.
5. Extremely flat profile and flush light surface.
6. High lumen output and IP rating (IP68).
7. Ultra flexible with 300mm minimum bending diameter.
8. Easy installation and assembly with injection-molded connectors.
9. Continuous length up to 10m by energized from one end.
10. Environmentally friendly & energy efficient.
11. Automated production, high reliability & long warranty.
12. 5 years life span.

2.2 Minimum Bend Diameter

C-FR-F22B-HB



The light can only be bent along the light surface. Do not bend smaller than allowed minimum bend diameter.

3. Types of Connector

3.1 Injection-moulded Connector

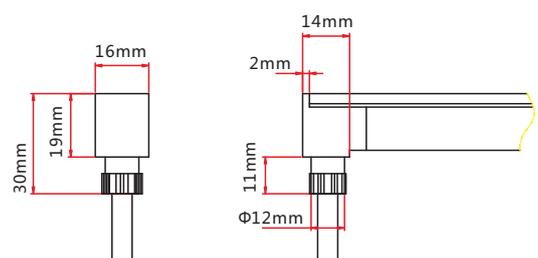
Note:

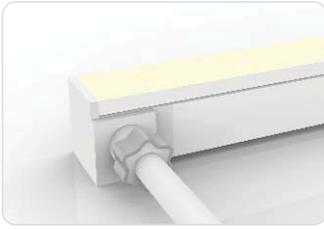
1. Unless otherwise stated, the tolerance of the connector is ± 0.5 mm;
2. Continuous length up to 15m(R/A)/10m(G/B/W) by powering one end.



Injection-moulded Front Connector (bottom)

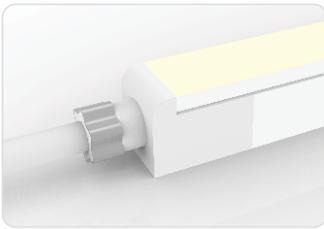
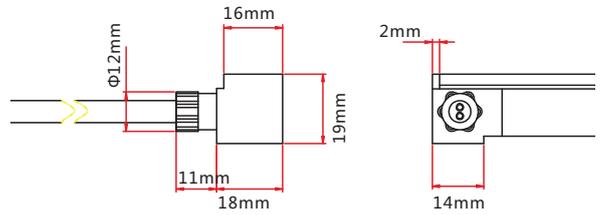
Connects light to power supply with pre-installed bottom feed cable IP67. Available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m lengths.





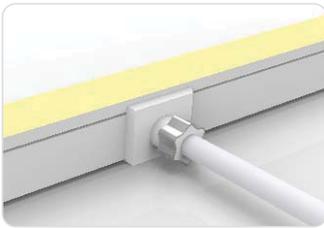
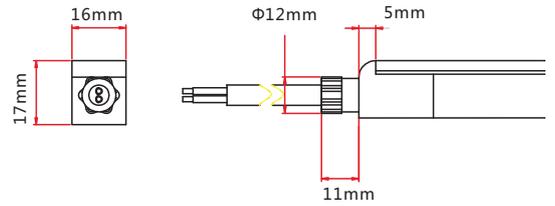
Injection-moulded Front Connector (side)

Connects light to power supply with pre-installed side feed cable, IP67. Available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m lengths.



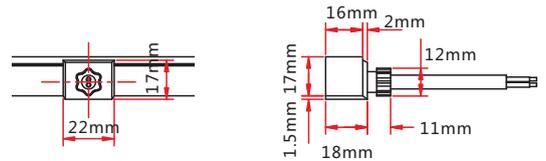
Injection-moulded Front Connector (end)

Connects light to power supply with pre-installed end feed cable, IP67. Available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m lengths.



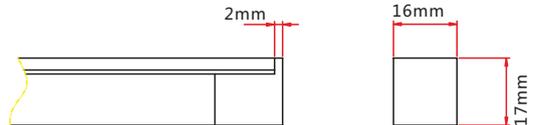
Injection-moulded Middle Feed Connector

Connects light to power supply with pre-installed end feed cable, IP67. Available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m lengths.



Injection-moulded End Cap

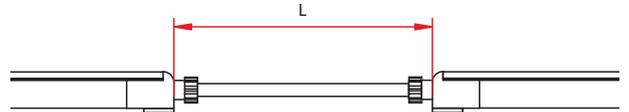
Pre-installed termination protection of the light, IP67.



Injection-moulded Jumper

Connects two pieces of lights together with a flexible cable. IP67 Injection-moulded connector. L available in 0.3~1m.

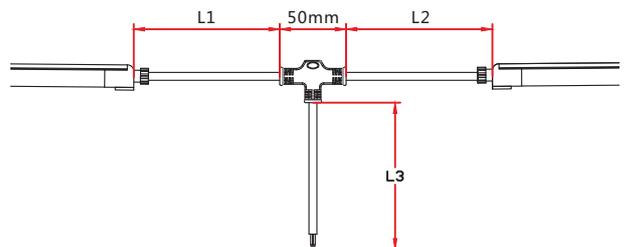
Maximum 8 Jumpers in 20m
 Maximum 4 Jumpers in 10m



Injection-moulded T-feed

Connects two pieces of lights together with a T joint, energized from middle. IP67 Injection-moulded connector. L1 and L2 available in 0.15~0.5m. L3 available in 0.3-3m.

Maximum 8 T-feeds in 20m
 Maximum 4 T-feeds in 10m



3.2 Dual Injection-moulded Connector

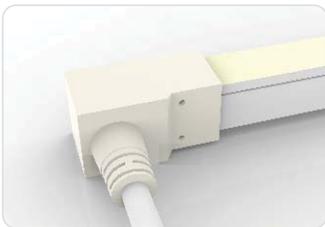
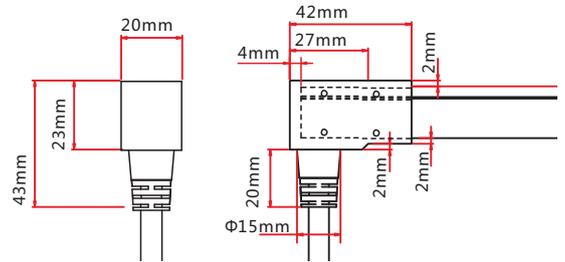
Note:

1. Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$;
2. Continuous length up to 15m(R/A)/10m(G/B/W) by powering one end.



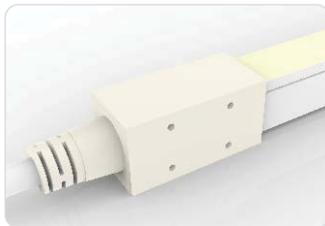
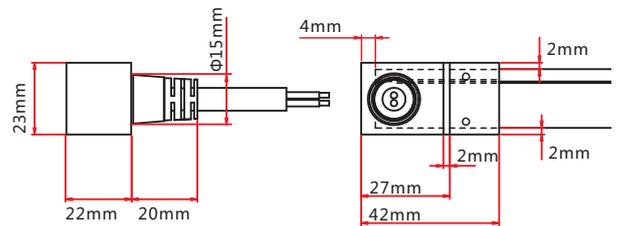
Dual Injection-moulded Front Connector (bottom)

Connects light to power supply with pre-installed bottom feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.



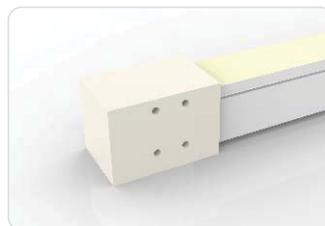
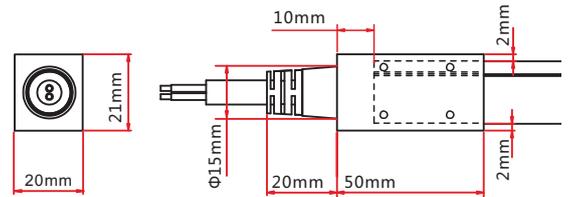
Dual Injection-moulded Front Connector (side)

Connects light to power supply with pre-installed side feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.



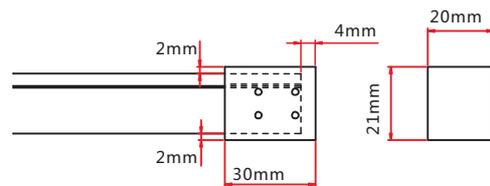
Dual Injection-moulded Front Connector (top end)

Connects light to power supply with pre-installed end feed cable, IP68. Cable length available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m.



Dual Injection-moulded End Cap

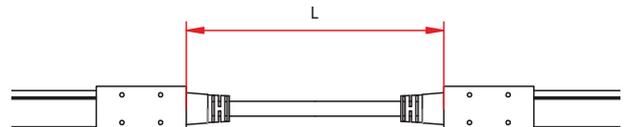
Pre-installed termination protection of the light, IP68.



Dual Injection-moulded Jumper

Connects two pieces of lights together with a flexible cable. IP68 Dual Injection-moulded cable. L available in 0.3~1m.

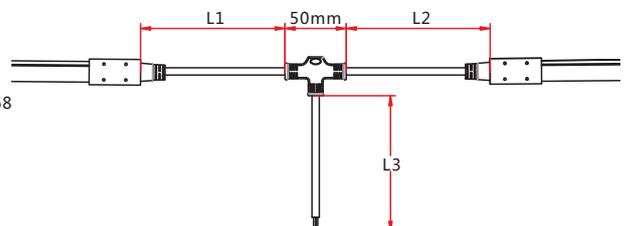
Maximum 8 Jumpers in 20m
 Maximum 4 Jumpers in 10m



Dual Injection-moulded T-feed

Connects two pieces of lights together with a T joint, energized from middle. IP68 Dual Injection-moulded connector. L1 and L2 available in 0.15~0.5m. L3 available in 0.3-3m.

Maximum 8 T-feeds in 20m
 Maximum 4 T-feeds in 10m



3.3 Snap Connector

Note:

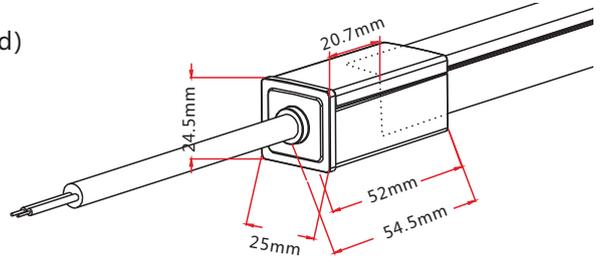
1. Unless otherwise stated, the tolerance of the connector is $\pm 0.5\text{mm}$;
2. Continuous length up to 15m(R/A)/10m(G/B/W) by powering one end.



Snap Front Connector(top end)

Connects light to power supply, IP67 DIY connector. Cable available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m lengths.

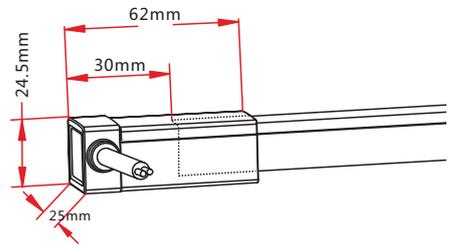
- Feed connector with silicone gasket *1 (Two-pin)
- Anti-skidding clip *1
- U steel plate *1
- PC Cover *1



Snap Front Connector(side right/left)

Connects light to power supply, IP67 DIY connector. Cable available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m lengths.

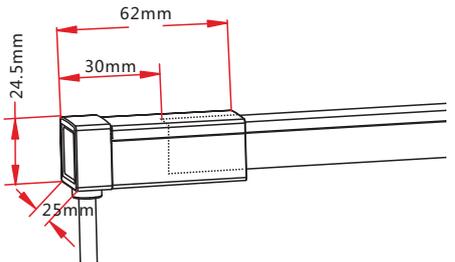
- Feed connector with silicone gasket *1 (Two-pin)
- Anti-skidding clip *1
- U steel plate *1
- PC Cover *1



Snap Front Connector(bottom)

Connects light to power supply, IP67 DIY connector. Cable available in 0.3m, 1m, 3m, 5m, 10m, 15m, 20m lengths.

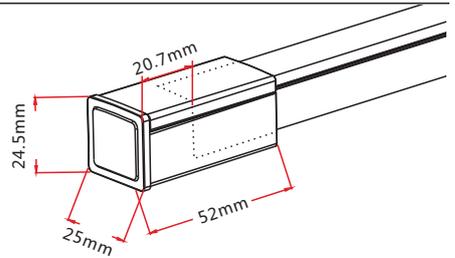
- Feed connector with silicone gasket *1 (Two-pin)
- Anti-skidding clip *1
- U steel plate *1
- PC Cover *1



Snap End Cap

Termination protection of the light, IP67 DIY connector.

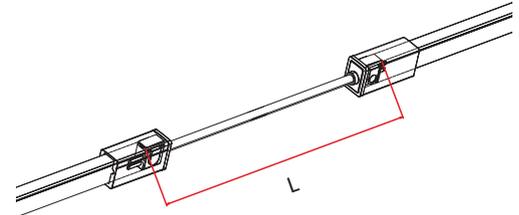
- Tail plug with silicone gasket *1
- Anti-skidding clip *1
- U steel plate *1
- PC Cover *1



Snap Jumper

Connects two pieces of lights together with a flexible cable. IP67 DIY connector. L available in 0.3m, 1m and 3m.

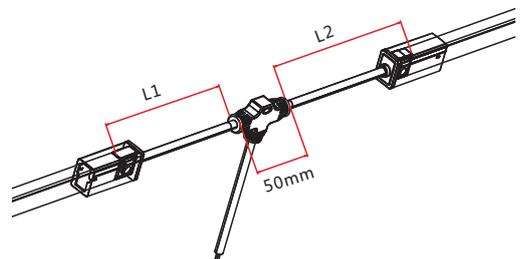
- Double-end feed connector*1 (Two-pin)
- Silicone gasket*2
- U steel plate*2
- Anti-skidding clip*2
- PC cover*2



Snap Power T-feed

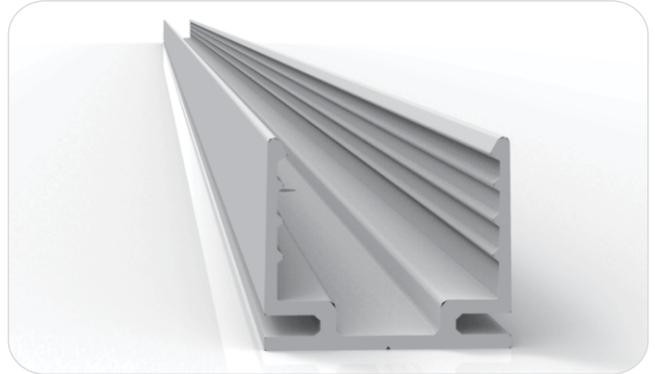
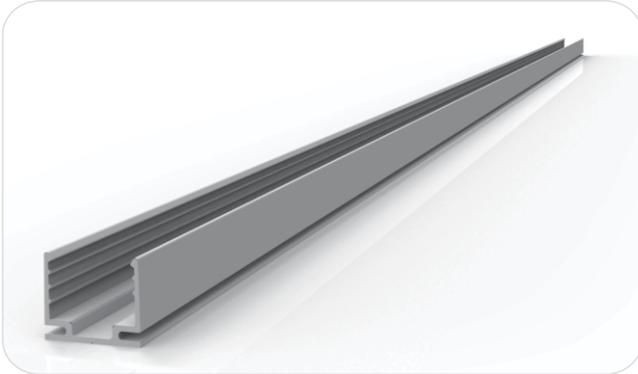
Connects two pieces of lights together with a T joint, energized from middle. IP67 DIY connector. L1 and L2 available in 0.3m.

- T joint*1 (Two-pin)
- Silicone gasket*2
- U steel plate*2
- Anti-skidding clip*2
- PC cover*2

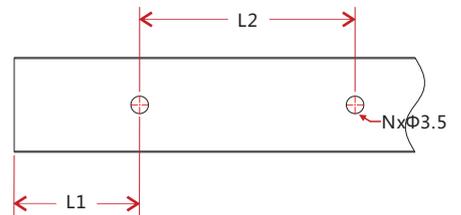
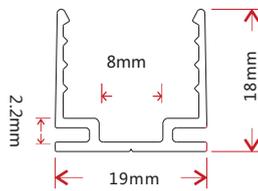
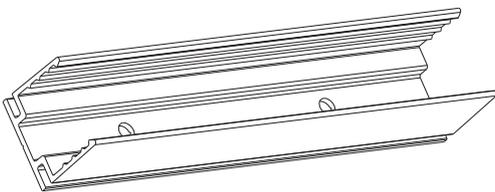


4. Mounting Profile

4.1 Standard Aluminum Profile



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

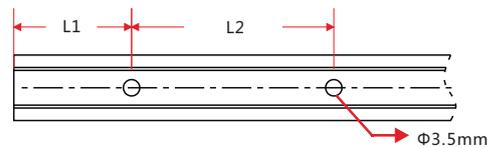
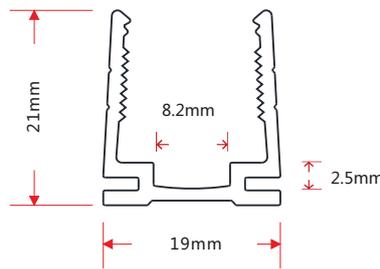


Installation Way



Model	W*H(mm)	Standard Length (mm)	L1 (mm)	L2 (mm)	Screw Hole (mm)	Hole Number
F22-A/PL	19*18	35	17.5	/	$\Phi 3.5$	1
		500	50	200	$\Phi 3.5$	3
		1000	100	200	$\Phi 3.5$	5
		2000	100	200	$\Phi 3.5$	10

4.2 Plastic Profile



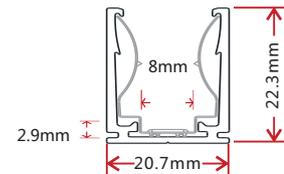
Note: Unless otherwise stated, the tolerance of the profile is $\pm 0.5\text{mm}$.

Installation Way



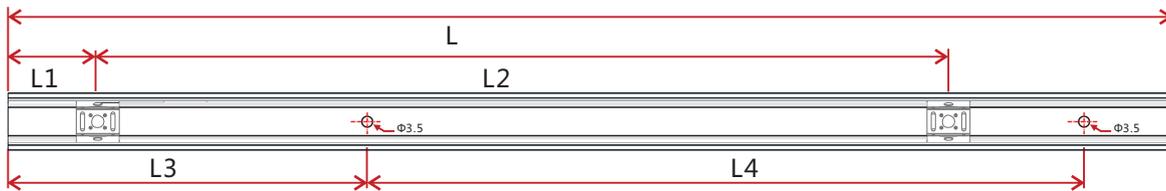
Model	W*H(mm)	Standard Length (mm)	L1 (mm)	L2 (mm)	Screw Hole (mm)	Hole Number
F22-P/PL	19*21	500	50	200	$\Phi 3.5$	3
		1000	100	200	$\Phi 3.5$	5
		2000	100	200	$\Phi 3.5$	10

4.3 Spring Clip Aluminum Profile



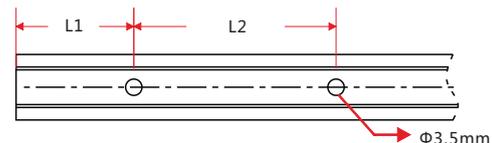
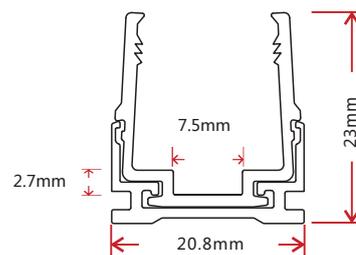
Note: Unless otherwise stated, the tolerance of the profile is $\pm 0.5\text{mm}$.

Installation Way



Model	W*H(mm)	Standard Length(mm)	L1(mm)	L2(mm)	L3(mm)	L4(mm)	Hole Screw(mm)	Hole Number	Clip Number
F22-SCA/PL	20.7*22.3	35	17.5	/	5	25	$\Phi 3.5$	2	1
		500	25	150	50	200	$\Phi 3.5$	3	4
		1000	25	190	100	200	$\Phi 3.5$	5	6
		2000	25	195	100	200	$\Phi 3.5$	10	11

4.4 Hybrid Profile



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

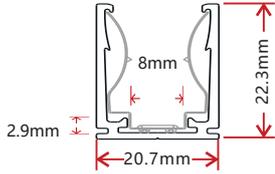
Installation Way



Model	W*H(mm)	Standard Length (mm)	L1 (mm)	L2 (mm)	Screw Hole (mm)	Hole Number
F22-HP/PL	20.8*23	35	17.5	/	$\Phi 3.5$	1
		500	50	200	$\Phi 3.5$	3
		1000	100	200	$\Phi 3.5$	5
		2000	100	200	$\Phi 3.5$	10

4.5 Cable Exit Oriented Aluminum Profile

(Applicable to Injection-moulded Connector Only)



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



Bottom Feed



Middle Feed



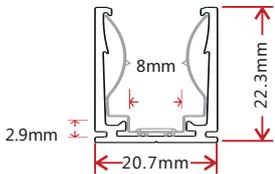
Side Feed From Left



Side Feed From Right

4.6 Corner Aluminum Profile

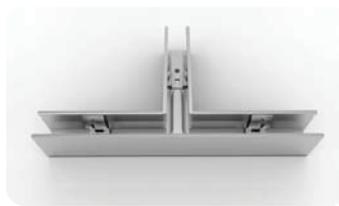
(Applicable to Injection-moulded Connector Only)



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



L Shape



T Shape



Outward L Shape



Inward L Shape



X Shape

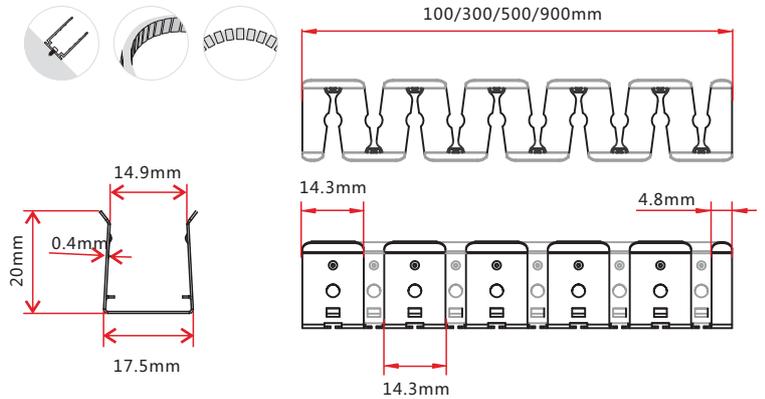
NOTE: Please contact our sales team for more detailed information

4.7 Bendable Stainless Steel Profile



Model: F22-CS/PL
 Note: Unless otherwise stated, the tolerance of the profile is $\pm 0.5\text{mm}$.

Installation Way

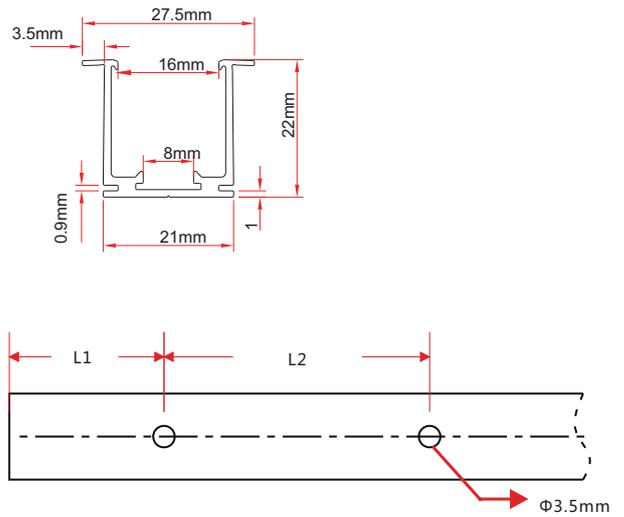


4.8 Recessed Mounting Profile



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
F22-RMA/PL	18*13.2	35	5	25	$\Phi 3.5$	2
		500	50	200	$\Phi 3.5$	3
		1000	100	200	$\Phi 3.5$	5
		2000	100	200	$\Phi 3.5$	10