

Simply brighter.



FlexgloTM F10 SERIES

Flexglo[™] - F10 Series

By adopting SMD LED, FPCB and automated production technologies in 2013, we upgraded the first generation of SMD LED flex neon with flat lighting surface launched in 2006, and it was officially renamed FlexgloF10 in 2019.

The technical innovations have brought Insulfit™ to ClearTech™, which is pioneering mechanical design enabling field-assembled connector up to IP67 protection and replace conventional point contact connector. Also the dual injection-moulded connector was developed with IP68 protection for FlexgloF10.



$\mathsf{Flexglo}^{\scriptscriptstyle\mathsf{TM}}\,\mathsf{F10}\,\mathsf{Portfolio}$

	Flexglo [™] F10 PVC High Voltage													
Product Series	Voltage	Category	Bending Direction		Page									
		F10B Monochrome-Colorful Light	НВ	•••	F10 025									
F10B	AC230V	F10B Monochrome-White Light	НВ	22 27 30 35 40 57	F10 027									
		Wire Diagram	НВ		F10 029									

		Flexglo [™] F1	Optional Connector								
Product Series	Voltage	Category	Bending Direction		Page	Swivel	Sleeve	Snap	Injection -Moulded	Dual Injection -Moulded	Page
		F10B Monochrome-Colorful Light & Jacket	НВ	• • •	F10 007						
	DC24V	F10B Monochrome-Colorful Light	НВ		F10 009						
F10B		F10B Monochrome-White Light (CRI80, 90, 95)	НВ	22 27 30 35 40 57	F10 011	IP20	N/A	IP67	IP67	IP68	F10 031
	DC12V	F10B Monochrome-Colorful Light	НВ		F10 009						
	DCIZV	F10B Monochrome-White Light (CRI80, 90, 95)	НВ	22 27 30 35 40 57	F10 011						

Wiring Diagram										
Lighting Effect	Monochrome									
Wires	F10B ===									
Page	F10 021									

	Optional Mounting profile												
Name	Aluminum Profile	Flange Aluminum Profile	Serrated Aluminum Profile	Flange Serrated Aluminum Profile	Bendable Serrated Aluminum Profile								
Item Code	A/PL	FA/PL	SA/PL	FSA/PL	BSA/PL								
Length (mm)	35,500, 1000, 2000	35,500, 1000, 2000	20, 500, 1000, 2000	20, 500, 1000, 2000	500, 1000								
Page	F10 053	F10 054	F10 055	F10 056	F10 057								

Flexglo[™] F10 Portfolio

		Flexglo™ F10	Optional Connector							
Product Series	t Voltage Category		Bending Direction		Page	Swivel	Sleeve	Snap	Silicone Injection -Moulded	Page
	DC24V	F10B Monochrome-Colorful Light	НВ		F10 015					
F10B	DC24V	F10B Monochrome-White Light (CRI80, 90, 95)	НВ	22 27 30 35 40 57	F10 017	IP20	N/A	IP67	IP68	F10.031
	DC12V	F10B Monochrome-Colorful Light	НВ	•••	F10 015	IP2U	IN/A	IP67	IPO8	F10 051
	DCIZV	F10B Monochrome-White Light (CRI80, 90, 95)	НВ	22 27 30 35 40 57	F10 017					

Flexglo[™] F10 Technology Checklist

		Technology														
C	Category AC230V Colorful Light			Brand LED	CR195	High Lumen Output	Built-in Constant Current IC	Bielectrode Packaging	1+3oz PCB	Interstitial Via Hole	Decentifier™	PinBoost™	TwinFlex™	DryWire™	Insulfit™	C-Mask™
	AC230V Colorful Light	V						V	V	V	V	V				V
	AC230V White Light	V	V					V	V	V	V	V				V
F10-PVC	Colorful Light & Jacket	V						V	V	V		V		V	V	V
	Colorful Light	V						V	V	V		V		V	V	V
	White Light	V	V		V			V	V	V		V		V	V	V
F10-Silicone	Colorful Light	V						V	V	V		V	V	V	V	V
	White Light	V	V		V			V	V	V		V	V	V	V	V

Flexglo[™] F10 Parameter Summary (PVC)

Product	Lighting	Cotononia	Item Code	Voltage	Power	Circuit	Bending	Min. Bending	Unit/m	Min. Cutting	Min. Cutting	Color/CCT	Color	CRI	R9	1	Lumen/ft
Series	Effect	Category	item code	(V)	(W/m)	Type	Direction	Diameter (mm)	Unit/iii	Length (mm)	Length (in)	COIOI/CC1	Tolerance	LKI	KS	Lumen/m	Lumen/10
			C-FR-F10B-HB-AC230-R-WM-72-5W-1000	230	5	AC		90	1	1000	39.37	Red	N/A	N/A	N/A	40	12
		AC230V	C-FR-F10B-HB-AC230-G-WM-72-5W-1000	230	5	AC	1	90	1	1000	39.37	Green	N/A	N/A	N/A	80	24
		Colorful Light	C-FR-F10B-HB-AC230-B-WM-72-5W-1000	230	5	AC	1	90	1	1000	39.37	Blue	N/A	N/A	N/A	12	4
			C-FR-F10B-HB-AC230-A-WM-72-5W-1000	230	5	AC	1	90	1	1000	39.37	Amber	N/A	N/A	N/A	60	18
			C-FR-F10B-HB-AC230-22K-WM-72-80-5W-1000	230	5	AC	1	90	1	1000	39.37	2200K	<6SDCM	80	N/A	110	34
			C-FR-F10B-HB-AC230-27K-WM-72-80-5W-1000	230	5	AC	1	90	1	1000	39.37	2700K	<6SDCM	80	N/A	110	34
		AC230V	C-FR-F10B-HB-AC230-30K-WM-72-80-5W-1000	230	5	AC	1	90	1	1000	39.37	3000K	<6SDCM	80	N/A	120	37
		White Light	C-FR-F10B-HB-AC230-35K-WM-72-80-5W-1000	230	5	AC		90	1	1000	39.37	3500K	<6SDCM	80	N/A	120	37
			C-FR-F10B-HB-AC230-40K-WM-72-80-5W-1000	230	5	AC	1	90	1	1000	39.37	4000K	<6SDCM	80	N/A	120	37
			C-FR-F10B-HB-AC230-57K-WM-72-80-5W-1000	230	5	AC		90	1	1000	39.37	5700K	<6SDCM	80	N/A	110	34
		Colorful Light	C-FR-F10B-HB-24CV-R-RR-72-3.5W-125	24	3.5	CV	1	90	8	125	4.92	Red	N/A	N/A	N/A	25	8
		"	C-FR-F10B-HB-24CV-G-GG-72-4.5W-83.3	24	4.5	CV		90	12	83.3	3.28	Green	N/A	N/A	N/A	50	15
		& Jacket	C-FR-F10B-HB-24CV-B-BB-72-4.5W-83.3	24	4.5	CV	1	90	12	83.3	3.28	Blue	N/A	N/A	N/A	10	3
			C-FR-F10B-HB-24CV-R-WM-72-3.5W-125	24	3.5	CV		90	8	125	4.92	Red	N/A	N/A	N/A	45	14
			C-FR-F10B-HB-24CV-G-WM-72-4.5W-83.3	24	4.5	CV		90	12	83.3	3.28	Green	N/A	N/A	N/A	80	24
		[C-FR-F10B-HB-24CV-B-WM-72-4.5W-83.3	24	4.5	CV		90	12	83.3	3.28	Blue	N/A	N/A	N/A	15	5
		Colorful Light	C-FR-F10B-HB-24CV-A-WM-72-3.5W-125	24	3.5	CV		90	8	125	4.92	Amber	N/A	N/A	N/A	50	15
		Colorrar Eight	C-FR-F10B-HB-12CV-R-WM-72-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	Red	N/A	N/A	N/A	45	14
F10			C-FR-F10B-HB-12CV-G-WM-72-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	Green	N/A	N/A	N/A	80	24
			C-FR-F10B-HB-12CV-B-WM-72-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	Blue	N/A	N/A	N/A	15	5
	В		C-FR-F10B-HB-12CV-A-WM-72-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	Amber	N/A	N/A	N/A	50	15
9mm/0.35in	_		C-FR-F10B-HB-24CV-22K-WM-72-80-4.5W-83.3	24	4.5	CV	HB	90	12	83.3	3.28	2200K	<6SDCM	80	N/A	110	34
T P			C-FR-F10B-HB-24CV-27K-WM-72-80-4.5W-83.3	24	4.5	CV]	90	12	83.3	3.28	2700K	<6SDCM	80	N/A	110	34
i ši Mi			C-FR-F10B-HB-24CV-30K-WM-72-80-4.5W-83.3	24	4.5	CV		90	12	83.3	3.28	3000K	<6SDCM	80	N/A	120	37
5			C-FR-F10B-HB-24CV-35K-WM-72-80-4.5W-83.3	24	4.5	CV	_	90	12	83.3	3.28	3500K	<6SDCM	80	N/A	120	37
			C-FR-F10B-HB-24CV-40K-WM-72-80-4.5W-83.3	24	4.5	CV		90	12	83.3	3.28	4000K	<6SDCM	80	N/A	120	37
			C-FR-F10B-HB-24CV-57K-WM-72-80-4.5W-83.3	24	4.5	CV	_	90	12	83.3	3.28	5700K	<6SDCM	80	N/A	110	34
			C-FR-F10B-HB-24CV-27K-WM-72-90-4.5W-83.3	24	4.5	CV]	90	12	83.3	3.28	2700K	<6SDCM	90	35~80	90	27
			C-FR-F10B-HB-24CV-30K-WM-72-90-4.5W-83.3	24	4.5	CV		90	12	83.3	3.28	3000K	<6SDCM	90	35~80	90	27
			C-FR-F10B-HB-24CV-35K-WM-72-90-4.5W-83.3	24	4.5	CV]	90	12	83.3	3.28	3500K	<6SDCM	90	35~80	100	30
			C-FR-F10B-HB-24CV-40K-WM-72-90-4.5W-83.3	24	4.5	CV		90	12	83.3	3.28	4000K	<6SDCM	90	35~80	100	30
		White Light	C-FR-F10B-HB-24CV-30K-WM-72-95-4.5W-83.3	24	4.5	CV	_	90	12	83.3	3.28	3000K	<6SDCM	95	80~99	75	23
		Willie Eight	C-FR-F10B-HB-12CV-22K-WM-72-80-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	2200K	<6SDCM	80	N/A	110	34
			C-FR-F10B-HB-12CV-27K-WM-72-80-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	2700K	<6SDCM	80	N/A	110	34
			C-FR-F10B-HB-12CV-30K-WM-72-80-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	3000K	<6SDCM	80	N/A	120	37
			C-FR-F10B-HB-12CV-35K-WM-72-80-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	3500K	<6SDCM	80	N/A	120	37
		[C-FR-F10B-HB-12CV-40K-WM-72-80-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	4000K	<6SDCM	80	N/A	120	37
	1	[C-FR-F10B-HB-12CV-57K-WM-72-80-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	5700K	<6SDCM	80	N/A	110	34
	1		C-FR-F10B-HB-12CV-27K-WM-72-90-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	2700K	< 6SDCM	90	35~80	90	27
		[C-FR-F10B-HB-12CV-30K-WM-72-90-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	3000K	<6SDCM	90	35~80	90	27
		[C-FR-F10B-HB-12CV-35K-WM-72-90-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	3500K	< 6SDCM	90	35~80	100	30
			C-FR-F10B-HB-12CV-40K-WM-72-90-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	4000K	<6SDCM	90	35~80	100	30
			C-FR-F10B-HB-12CV-30K-WM-72-95-4.5W-41.7	12	4.5	CV		90	24	41.7	1.64	3000K	<6SDCM	95	80~99	75	23

Flexglo[™] F10 Parameter Summary (Silicone)

Product Series	Lighting Effect	Category	Item Code	Voltage (V)	Power (W/m)	Circuit Type	Bending Direction	Min. Bending Diameter (mm)	Unit/m	Min. Cutting Length (mm)	Min. Cutting Length (in)	Color/CCT	Color Tolerance	CRI	R9	Lumen/m	Lumen/ft
			C-SFR-F10B-HB-24CV-R-WM-72-3.5W-125	24	3.5	CV		90	8	125	4.92	Red	N/A	N/A	N/A	50	15
			C-SER-E10B-HB-24CV-G-WM-72-4-5W-83-3	24	4.5	CV	1	90	12	83.3	3.28	Green	N/A	N/A	N/A	130	40
			C-SER-F10B-HB-24CV-B-WM-72-4.5W-83.3	24	4.5	CV	1	90	12	83.3	3.28	Blue	N/A	N/A	N/A	25	8
			C-SFR-F10B-HB-24CV-A-WM-72-3.5W-125	24	3.5	CV	1	90	8	125	4.92	Amber	N/A	N/A	N/A	50	15
		Colorful Light	C-SFR-F10B-HB-12CV-R-WM-72-3.5W-41.7	12	4.5	CV	1	90	24	41.7	1.64	Red	N/A	N/A	N/A	65	20
			C-SFR-F10B-HB-12CV-G-WM-72-4.5W-41.7	12	4.5	CV	1	90	24	41.7	1.64	Green	N/A	N/A	N/A	130	40
			C-SFR-F10B-HB-12CV-B-WM-72-4.5W-41.7	12	4.5	CV	1	90	24	41.7	1.64	Blue	N/A	N/A	N/A	25	8
			C-SFR-F10B-HB-12CV-A-WM-72-3.5W-41.7	12	4.5	CV	1	90	24	41.7	1.64	Amber	N/A	N/A	N/A	65	20
			C-SFR-F10B-HB-24CV-22K-WM-72-80-4.5W-83.3	24	4.5	CV	1	90	12	83.3	3.28	2200K	<5SDCM	80	N/A	110	34
			C-SFR-F10B-HB-24CV-27K-WM-72-80-4.5W-83.3	24	4.5	CV	1	90	12	83.3	3.28	2700K	<5SDCM	80	N/A	130	40
			C-SFR-F10B-HB-24CV-30K-WM-72-80-4.5W-83.3	24	4.5	CV	1	90	12	83.3	3.28	3000K	<5SDCM	80	N/A	130	40
F10			C-SFR-F10B-HB-24CV-35K-WM-72-80-4.5W-83.3	24	4.5	CV	1	90	12	83.3	3.28	3500K	<5SDCM	80	N/A	130	40
9mm/0.35in			C-SFR-F10B-HB-24CV-40K-WM-72-80-4.5W-83.3	24	4.5	CV	1	90	12	83.3	3.28	4000K	<5SDCM	80	N/A	130	40
			C-SFR-F10B-HB-24CV-57K-WM-72-80-4.5W-83.3	24	4.5	CV	HB	90	12	83.3	3.28	5700K	<5SDCM	80	N/A	130	40
ь Н	В		C-SFR-F10B-HB-24CV-27K-WM-72-90-4.5W-83.3	24	4.5	CV		90	12	83.3	3.28	2700K	<5SDCM	90	35~80	105	32
			C-SFR-F10B-HB-24CV-30K-WM-72-90-4.5W-83.3	24	4.5	CV		90	12	83.3	3.28	3000K	<5SDCM	90	35~80	105	32
ğI 📶			C-SFR-F10B-HB-24CV-35K-WM-72-90-4.5W-83.3	24	4.5	CV		90	12	83.3	3.28	3500K	<5SDCM	90	35~80	105	32
_		White Light	C-SFR-F10B-HB-24CV-40K-WM-72-90-4.5W-83.3	24	4.5	CV	1	90	12	83.3	3.28	4000K	<5SDCM	90	35~80	105	32
		Write Light	C-SFR-F10B-HB-24CV-30K-WM-72-95-4.5W-83.3	24	4.5	CV	1	90	12	83.3	3.28	3000K	<5SDCM	95	80~99	90	27
			C-SFR-F10B-HB-12CV-22K-WM-72-80-4.5W-41.7	12	4.5	CV	1	90	24	41.7	1.64	2200K	<5SDCM	80	N/A	110	34
			C-SFR-F10B-HB-12CV-27K-WM-72-80-4.5W-41.7	12	4.5	CV	1	90	24	41.7	1.64	2700K	<5SDCM	80	N/A	130	40
			C-SFR-F10B-HB-12CV-30K-WM-72-80-4.5W-41.7	12	4.5	CV	1	90	24	41.7	1.64	3000K	<5SDCM	80	N/A	130	40
			C-SFR-F10B-HB-12CV-35K-WM-72-80-4.5W-41.7	12	4.5	CV	1	90	24	41.7	1.64	3500K	<5SDCM	80	N/A	130	40
			C-SFR-F10B-HB-12CV-40K-WM-72-80-4.5W-41.7	12	4.5	CV	1	90	24	41.7	1.64	4000K	<5SDCM	80	N/A	130	40
			C-SFR-F10B-HB-12CV-57K-WM-72-80-4.5W-41.7	12	4.5	CV	1	90	24	41.7	1.64	5700K	<5SDCM	80	N/A	130	40
			C-SFR-F10B-HB-12CV-27K-WM-72-90-4.5W-41.7	12	4.5	CV]	90	24	41.7	1.64	2700K	<5SDCM	90	35~80	105	32
			C-SFR-F10B-HB-12CV-30K-WM-72-90-4.5W-41.7	12	4.5	CV]	90	24	41.7	1.64	3000K	<5SDCM	90	35~80	105	32
			C-SFR-F10B-HB-12CV-35K-WM-72-90-4.5W-41.7	12	4.5	CV]	90	24	41.7	1.64	3500K	<5SDCM	90	35~80	105	32
			C-SFR-F10B-HB-12CV-40K-WM-72-90-4.5W-41.7	12	4.5	CV]	90	24	41.7	1.64	4000K	<5SDCM	90	35~80	105	32
			C-SFR-F10B-HB-12CV-30K-WM-72-95-4.5W-41.7	12	4.5	CV]	90	24	41.7	1.64	3000K	<5SDCM	95	80~99	90	27



Flexglo[™]F10B Monochrome - Colorful Light & Jacket (PVC)











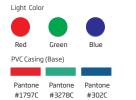








Certification Mark Test Standard/Directive UL2108 Class 2 CE-EMC IS 10322 Certificate Serial Number 20180801-E360029 SZEM1712012372LMV R-41128376 Report Reference E360029-20130322 SZEM171201237201 NO.20190425001



slightly different with the Pantone color listed here due to process variability.



Ambient Working Temperature ≤4.5W/m -20 ~ 55°C /-4~131°F



Ambient Installation Temperature ≥ 0°C /32°F^[1]

are vulnerable to breaking off from twisting and fail to work.



Storage Temperature -20 ~ 60°C /-4~140°F



Max. Mounting Surface Temperature 60°C /140°F

specified in the non-working state of light. and up to 85°C for silicone type.

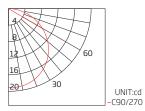


Constant Voltage DC24V

C-FR-F10B-HB



C-FR-F10B-HB-24CV-G-GG-72-4.5W-83.3



AVERAGE BEAM ANGLE (50%): 114.2°

Min. Bending Diameter 90mm/3.54in





Horizontal Bending



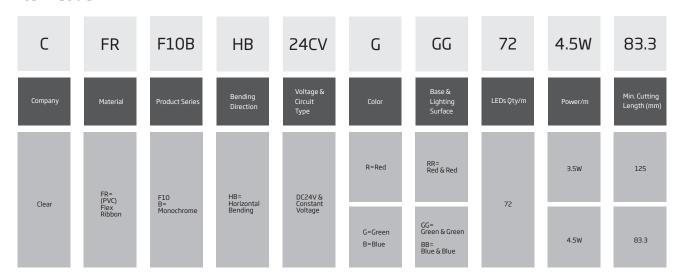




Warning: Extreme Destructive Tests in laboratory only, and it's forbidden to operate in practice

Note:

- $1. The {\it illuminated light length shall be an integral multiple of min. cutting length}.$
- 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.



Flexglo™ F10B Monochrome - Colorful Light & Jacket (PVC), with colorful PVC casing, it is a perfect solution for scenes that require outstanding visual effect not only in nighttime but also in daytime, and for projects where the light fixture color and mounting surface color need to be matched. Besides, standard colors of red, green, blue and yellow, bespoke Pantone colors are optional.

 $Multiple \ connector \ options \ are \ available \ for \ different \ applications. \ Combined \ with \ the \ adoption \ of \ the \ DryWire^{TM}$ technology,

- ${}^*\text{The IP67 Injection-moulded Connector} is engineered for outdoor use.$
- *The P68 Dual Injection-moulded Connector is specially designed for long-term submersible applications.
- *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 C-Mask™ technology retarding PVC discoloration and enabling lasting colorful jacket and consistent illumination.

Electrical Parameter

Category	•	C-FR-F10B-HB
Voltage (V)	24	24
Current (mA/m)	145.8	187.5
Power (W/m)	3.5	4.5
Circuit Type	CV	CV
LED Type	2835	2835
LEDs Qty/m	72	72
LEDs Qty/unit	9	6
Unit/m	8	12
Min. Cutting Length (mm)	125	83.3
Min. Cutting Length (in)	4.92	3.28

Optical Parameter

		Finished	Product		LED
Item Code	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-FR-F10B-HB-24CV-R-RR-72-3.5W-125	Red	618-624nm	25lm	8lm	<3nm
C-FR-F10B-HB-24CV-G-GG-72-4.5W-83.3	Green	522-528nm	50lm	15lm	<3nm
C-FR-F10B-HB-24CV-B-BB-72-4.5W-83.3	Blue	468-474nm	10lm	3lm	<3nm

Max. Running Length

			1. 1	Tu and the same of	34		1					
	Туре	Swivel C	onnector	Snap Co	onnector	Socket C	onnector	Injection-mou	lded Connector	Dual Injection-moulded Connect		
	IP Rating	IP20		IP67		IP	67	IP	67	IP	68	
	Item Code	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	
DC24V	C-FR-F10B-3.5W	10m/32.8ft	20m/65.6ft	20m/65.6ft	40m/131.2ft	20m/65.6ft	40m/131.2ft	20m/65.6ft	40m/131.2ft	20m/65.6ft	40m/131.2ft	
DCZ4V	C-FR-F10B-4.5W	10m/32.8ft	20m/65.6ft	15m/49.2ft 30m/98.4ft		15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft	
Dimer	nsion of Connector	PageF10 032		PageF10 035		PageF10 038		Pagel	F10 043	Page10 051		
Max	.Packing Lenght		PageF10 080									

- 1. Above conclusion is based on voltage drop testing result of the light with 0.3m (0.98ft) cable only.
 2. The maximum running length is based on the light in static full loading status.
 3. Above running length is only the light length excluding lengths of connectors. Please refer to the specific dimension of each connector.
- 4. The delivery length might be subject to the maximum packing length.

Flexglo[™]F10B Monochrome - Colorful Light (PVC)













Certification Mark	(Ų)	C€	8	
Test Standard/Directive	UL2108 Class 2	CE-EMC	IS 10322	
Certificate Serial Number	20180801-E360029	SZEM1712012372LMV	R-41128376	
Report Reference	E360029-20130322	SZEM171201237201	NO.20190425001	













Ambient Working Temperature \leq 4.5W/m -20 ~ 55°C /-4~131°F



Ambient Installation Temperature ≥ 0°C / 32°F^[1]



Storage Temperature -20 ~ 60°C /-4~140°F



Max. Mounting Surface Temperature

specified in the non-working state of light, and up to 85°C for silicone type

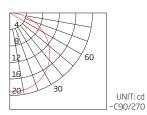












AVERAGE BEAM ANGLE (50%): 114.2°

Min. Bending Diameter 90mm/3.54in







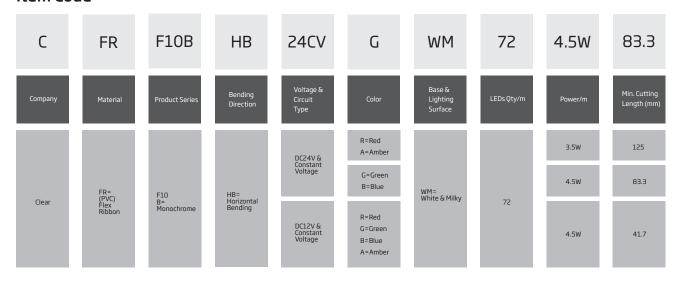






Warning: Extreme Destructive Tests in laboratory only, and it's forbidden to operate in practice

- 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.



Flexglo™ F10B Monochrome - Colorful Light (PVC), rich color options make it suitable for commercial decoration and auxiliary lighting.

 $Multiple \ connector \ options \ are \ available \ for \ different \ applications. \ Combined \ with \ the \ adoption \ of \ the \ DryWire^{TM}$ technology,

- $\hbox{^*The IP67 Injection-moulded Connector is engineered for outdoor use}.$
- ${}^{\star}\text{The IP68 Dual Injection-moulded Connector is specially designed for long-term submersible applications}.$
- *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™

Electrical Parameter

Category	C-FR-F10B-HB	C-FR-F10B-HB	C-FR-F10B-HB
Voltage (V)	24	24	12
Current (mA/m)	145.8	187.5	375.0
Power (W/m)	3.5	4.5	4.5
Circuit Type	CV	CV	CV
LED Type	2835	2835	2835
LEDs Qty/m	72	72	72
LEDs Qty/unit	9	6	3
Unit/m	8	12	24
Min. Cutting Length (mm)	125	83.3	41.7
Min. Cutting Length (in)	4.92	3.28	1.64

Optical Parameter

		Finishe		LED	
Item Code	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-FR-F10B-HB-24CV-R-WM-72-3.5W-125	Red	618-624nm	45lm	14Im	<3nm
C-FR-F10B-HB-24CV-G-WM-72-4.5W-83.3	Green	522-528nm	80lm	24lm	<3nm
C-FR-F10B-HB-24CV-B-WM-72-4.5W-83.3	Blue	468-474nm	15lm	5lm	<3nm
C-FR-F10B-HB-24CV-A-WM-72-3.5W-125	Amber	588-594nm	50lm	15lm	<3nm
C-FR-F10B-HB-12CV-R-WM-72-4.5W-41.7	Red	618-624nm	45lm	14lm	<3nm
C-FR-F10B-HB-12CV-G-WM-72-4.5W-41.7	Green	522-528nm	80lm	24lm	<3nm
C-FR-F10B-HB-12CV-B-WM-72-4.5W-41.7	Blue	468-474nm	15lm	5lm	<3nm
C-FR-F10B-HB-12CV-A-WM-72-4.5W-41.7	Amber	588-594nm	50lm	15lm	<3nm

Max. Running Length

		(1)		AU.	31							
	Type Swivel Connector		onnector	Snap Connector		Socket C	Socket Connector		Injection-moulded Connector		Dual Injection-moulded Connector	
	IP Rating	IP	20	IP67		IP67		IP67		IP68		
	Item Code	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	
DC24V	C-FR-F10B-3.5W	10m/32.8ft	20m/65.6ft	20m/65.6ft	40m/131.2ft	20m/65.6ft	40m/131.2ft	20m/65.6ft	40m/131.2ft	20m/65.6ft	40m/131.2ft	
DCZ4V	C-FR-F10B-4.5W	10m/32.8ft	20m/65.6ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft	
DC12V	V C-FR-F10B-4.5W 5m/16.4ft 10m/32.8ft 7.5m/24.6ft 15m/49.2ft		15m/49.2ft	7.5m/24.6ft	15m/49.2ft	7.5m/24.6ft	15m/49.2ft	7.5m/24.6ft	15m/49.2ft			
Dimension of Connector PageF10 032 PageF10 035 PageF10 038				PageF1	L0 043	Page:	10 051					
Max.Packing Lenght PageF10 080												

- 1. Above conclusion is based on voltage drop testing result of the light with 0.3m (0.98ft) cable only. 2. The maximum running length is based on the light in static full loading status.
- 3. Above running length is only the light length excluding lengths of connectors. Please refer to the specific dimension of each connector
- $4. \ The \ delivery \ length \ might be \ subject to \ the \ maximum \ packing \ length.$

Flexglo[™]F10B Monochrome - White Light (PVC)



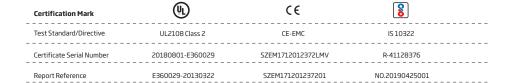


Salt Water Resistant























Ambient Working Temperature \leq 4.5W/m -20 ~ 55°C /-4~131°F



Ambient Installation Temperature ≥ 0°C /32°F^[1]



Storage Temperature -20 ~ 60°C /-4~140°F

[1] PVC products, when operating at below 0°C, are vulnerable to breaking off from twisting and fail to work



Max. Mounting Surface Temperature 60°C /140°F

and up to 85°C for silicone type.

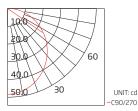


Constant Voltage DC24V, DC12V

C-FR-F10B-HB







AVERAGE BEAM ANGLE (50%):115.3°

Min. Bending Diameter 90mm/3.54in













Note:

- $1. \, \hbox{The illuminated light length shall be an integral multiple of min. cutting length}.$
- 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.

С	FR	F10B	НВ	24CV	30K	WM	72	80	4.5W	83.3
Company	Material	Product Series	Bending Direction	Voltage & Circuit Type	Color	Base & Lighting Surface	LEDs Qty/m	CRI	Power/m	Min. Cutting Length (mm)
	Clear (PVC) B= Horiz	HB=	DC24V & Constant Voltage	22K=2200K 27K=2700K 30K=3000K 35K=3500K 40K=4000K 57K=5700K	WM=		80		83.3 (DC24V)	
Clear		B= Monochrome	Horizontal Bending	DC12V & Constant Voltage	27K=2700K 30K=3000K 35K=3500K 40K=4000K	White & Milky	72	90	4.5W	41.7 (DC12V)
					30K=3000K			95		

Flexglo™ F10B Monochrome - White Light (PVC) is an item designed for architectural market with rated power of 4.5W/m. Its CRI value can reach 95Ra and maximum luminous flux is up to 120lm/m, DC24V and DC12V are optional.

 $Multiple connector options are available for different applications. Combined with the adoption of the DryWire {\tt TM} technology.$

- *The IP67 Injection-moulded Connector is engineered for outdoor use.
- *The IP68 Dual Injection-moulded Connector is specially designed for long-term submersible applications.
- *The IP67 Field Assembly Connector, which is underpinned by the Insulfit $^{\text{int}}$ 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 C-Mask™ technology retarding PVC discoloration and enabling consistent illumination.

Electrical Parameter

Category	C-FR-F	F10B-HB
Voltage (V)	24	12
Current (mA/m)	187.5	375.0
Power (W/m)	4.5	4.5
Circuit Type	CV	CV
LED Type	2835	2835
LEDs Qty/m	72	72
LEDs Qty/unit	6	3
Unit/m	12	24
Min. Cutting Length (mm)	83.3	41.7
Min. Cutting Length (in)	3.28	1.64

Optical Parameter

CRI 80

			Finished Produ	ct			LED	
Item Code	ССТ	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-FR-F10B-HB-24CV-22K-WM-72-80-4.5W-83.3	2200K	2238±102K	<6SDCM	80	110lm	34lm	<2.3SDCM	82~87
C-FR-F10B-HB-24CV-27K-WM-72-80-4.5W-83.3	2700K	2725±145K	<6SDCM	80	110lm	34lm	<2.3SDCM	82~87
C-FR-F10B-HB-24CV-30K-WM-72-80-4.5W-83.3	3000K	3045±175K	<6SDCM	80	120lm	37lm	<2.3SDCM	82~87
C-FR-F10B-HB-24CV-35K-WM-72-80-4.5W-83.3	3500K	3465±245K	<6SDCM	80	120lm	37lm	<2.3SDCM	82~87
C-FR-F10B-HB-24CV-40K-WM-72-80-4.5W-83.3	4000K	3985±275K	<6SDCM	80	120lm	37lm	<2.3SDCM	82~87
C-FR-F10B-HB-24CV-57K-WM-72-80-4.5W-83.3	5700K	5669±355K	<6SDCM	80	110lm	34lm	<2.3SDCM	82~87
C-FR-F10B-HB-12CV-22K-WM-72-80-4.5W-41.7	2200K	2238±102K	<6SDCM	80	110lm	34lm	<2.3SDCM	82~87
C-FR-F10B-HB-12CV-27K-WM-72-80-4.5W-41.7	2700K	2725±145K	<6SDCM	80	110lm	34lm	<2.3SDCM	82~87
C-FR-F10B-HB-12CV-30K-WM-72-80-4.5W-41.7	3000K	3045±175K	<6SDCM	80	120lm	37lm	<2.3SDCM	82~87
C-FR-F10B-HB-12CV-35K-WM-72-80-4.5W-41.7	3500K	3465±245K	<6SDCM	80	120lm	37lm	<2.3SDCM	82~87
C-FR-F10B-HB-12CV-40K-WM-72-80-4.5W-41.7	4000K	3985±275K	<6SDCM	80	120lm	37lm	<2.3SDCM	82~87
C-FR-F10B-HB-12CV-57K-WM-72-80-4.5W-41.7	5700K	5669±355K	<6SDCM	80	110lm	34lm	<2.3SDCM	82~87

CRI 95

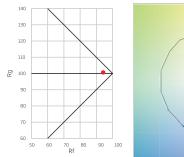
n 61	Finished Product							LED	
ltem Code	ССТ	CCT Tolerance	Color Tolerance	CRI	R9	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-FR-F10B-HB-24CV-30K-WM-72-95-4.5W-83.3	_ 3000К	3045±175K	<6SDCM	80	80~99	75lm	23lm	<2.3SDCM	96~99
C-FR-F10B-HB-12CV-30K-WM-72-95-4.5W-41.7	_ 3000К	3045±175K	<6SDCM	80	80~99	75lm	23lm	<2.3SDCM	96~99

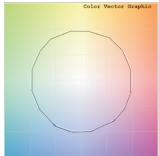
h. 6.1		Finished Product							1
Item Code	ССТ	CCT Tolerance	Color Tolerance	CRI	R9	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-FR-F10B-HB-24CV-27K-WM-72-90-4.5W-83.3	2700K	2725±145K	<6SDCM	90	35~80	90lm	27lm	<2.3SDCM	91~97
C-FR-F10B-HB-24CV-30K-WM-72-90-4.5W-83.3	<u> </u>	3045±175K	<6SDCM	90	35~80	90lm	27lm	<2.3SDCM	91~97
C-FR-F10B-HB-24CV-35K-WM-72-90-4.5W-83.3	<u> </u>	3465±245K	<6SDCM	90	35~80	100lm	30lm	<2.3SDCM	91~97
C-FR-F10B-HB-24CV-40K-WM-72-90-4.5W-83.3	4000K	3985±275K	<6SDCM	90	35~80	100lm	30lm	<2.3SDCM	91~97
C-FR-F10B-HB-12CV-27K-WM-72-90-4.5W-41.7	2700K	2725±145K	<6SDCM	90	35~80	90lm	27lm	<2.3SDCM	91~97
C-FR-F10B-HB-12CV-30K-WM-72-90-4.5W-41.7	<u> </u>	3045±175K	<6SDCM	90	35~80	90lm	27lm	<2.3SDCM	91~97
C-FR-F10B-HB-12CV-35K-WM-72-90-4.5W-41.7	3500K	3465±245K	<6SDCM	90	35~80	100lm	30lm	<2.3SDCM	91~97
C-FR-F10B-HB-12CV-40K-WM-72-90-4.5W-41.7	4000K	3985±275K	<6SDCM	90	35~80	100lm	30lm	<2.3SDCM	91~97

CCT tolerance and color tolerance both refer to ANSI C78.377 standard.

The color tolerance of finished products is kept <6SDCM from batch to batch and narrowed to <3SDCM at the same batch.

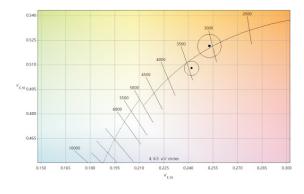
TM-30





IES TM-30-15 is a new system of several related measures and graphics that can be used together to effectively evaluate and communicate a light source's color rendering properties. The development of the method involved synthesizing multiple related research efforts and combining ideas into a single, cohesive system of objective information that can be used to aid decision-making processes, such as finding the preferred light source for a given application or evaluating the tradeoffs between efficacy and color rendering.

Measure	Abbreviation	Description
Fidelity Index	Rf	Analogous to CIE Ra (CRI). Characterizes the average color shift of the 99 CES to characterize the overall level of similarity between the test source and reference illuminant. Values range from 0 to 100.
Gamut Index	Rg	Compares the area enclosed by the average chromaticity coordinates in each of 16 hue bins to characterize the average saturation level of the test source compared to the reference illuminant. A neutral score is 100, with values greater than 100 indicating an increase in saturation and values less than 100 indicating a decrease in saturation. The range in values grows as fidelity decreases.



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

			TU.	3;		1				N. Control	
	Type	Swivel C	onnector	Snap Co	onnector Socket Connector		Injection-moulded Connector		Dual Injection-moulded Connector		
	IP Rating	IP	20	IP	IP67		67	IP	67	IP	68
	Item Code	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed
DC24V	C-FR-F10B-4.5W	10m/32.8ft	20m/65.6ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft
DC12V	C-FR-F10B-4.5W	5m/16.4ft	10m/32.8ft	10m/32.8ft 7.5m/24.6ft 15m/49.2ft		7.5m/24.6ft	15m/49.2ft	7.5m/24.6ft	15m/49.2ft	7.5m/24.6ft	15m/49.2ft
Dimer	nsion of Connector	f Connector PageF10 032 PageF10 035			PageF10 038		Page	PageF10 043		Page10 051	
Max	.Packing Lenght	nght PageF10 080									

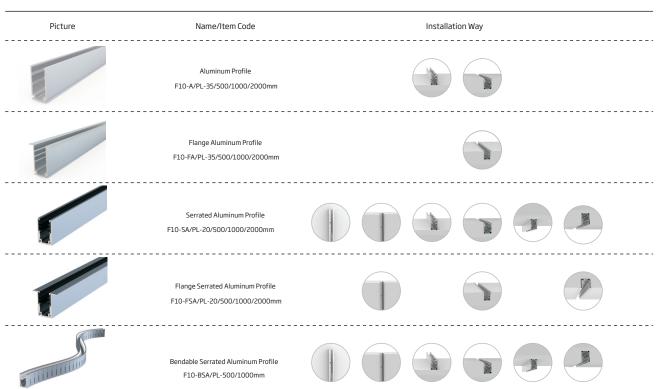
- $1. Above \ conclusion \ is \ based \ on \ voltage \ drop \ testing \ result \ of \ the \ light \ with \ 0.3m \ (0.98ft) \ cable \ only.$
- 2. The maximum running length is based on the light in static full loading status.

 3. Above running length is only the light length excluding lengths of connectors. Please refer to the specific dimension of each connector
- 4. The delivery length might be subject to the maximum packing length.

F10B Connector (PVC)

		` '							
Type/IP Rating	Bending Direction	Front Connector End	Front Connector Side from Left	Front Connector Side from Right	Front Connector Bottom	Seamless Middle Connector & Power Feed	Middle Connector & Power T-feed	Jumper	End Cap
Swivel Connector	HB	61: 1	N/A	N/A	N/A	N/A	N/A	N/A	159
IP20		F10B-HB-SW/FC- 01/02-E-0.3m/1m 22AWG*2	N/A	N/A	N/A	N/A	N/A	N/A	F10-SW/EC
Snap Connector	НВ	U I	8;	8	T _i	N/A			
IP67		F10B-HB-SN/FC- 01/02-E- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-SN/FC- 01/02-SL- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-SN/FC- 01/02-SR- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-SN/FC- 01/02-B- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	N/A	F10B-HB-SN/MC- PTF-01/02- 0.3m/1m/3m 18AWG*2	F10B-HB-SN/JU- 01/02- 0.3m/1m 18AWG*2	F10-SN/EC-01/02
Socket	НВ		N/A	N/A	N/A	N/A	N/A	N/A	
Connector IP67		F10B-HB-S0/FC- 01/02-E- 0.3m/1m/3m/5m 18AWG*2	N/A	N/A	N/A	N/A	N/A	N/A	F10-SO/EC
Injection- moulded	НВ		1	R					
Connector IP67		F10B-HB-IM/FC- 01/02-E- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-IM/FC- 02-SL- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-IM/FC- 01-SR- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-IM/FC- 01/02-B- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-IM/SEMC- PF-S- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-IM/MC- PTF-0.3m/1m/3m 18AWG*2	F10B-HB-IM/JU- 0.3m/1m 18AWG*2	F10-IM/EC
Dual Injection - moulded Connector	НВ					N/A			
IP68		F10B-HB-DIM/FC- 01/02-E- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-DIM/FC- 02-SL- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-DIM/FC- 01-SR- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-DIM/FC- 01/02-B- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	N/A	F10B-HB-DIM/MC- PTF-0.3m/1m/3m 18AWG*2	F10B-HB-DIM/JU- 0.3m/1m 18AWG*2	F10-DIM/EC

F10 Mounting Profile



Flexglo[™]F10B Monochrome - Colorful Light (Silicone)



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Certification Mark	(UL)	C€	8	
Test Standard/Directive	UL2108 Class 2	CE-EMC	IS 10322	
Certificate Serial Number	20180801-E360029	SZEM1712012372LMV	R-41128376	
Report Reference	E360029-20130322	SZEM171201237201	NO.20190425001	













Ambient Working Temperature ≤12W \leq 4.5W/m -40 ~ 65°C /-40~149°F



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



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





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

specified in the non-working state of light.

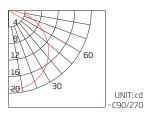


Constant Voltage DC24V, DC12V

C-SFR-F10B-HB



C-SFR-F10B-HB-24CV-G-



90mm/3.54in

Min. Bending Diameter









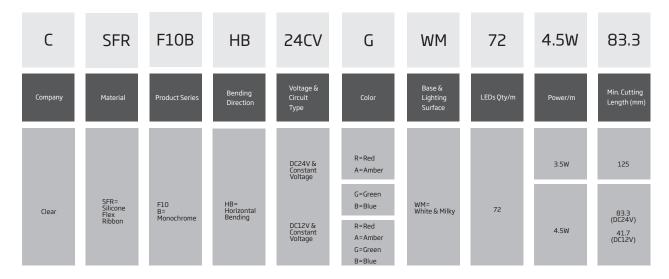
Tensile-instantaneous >40 kg.f

Twist-extreme 4025times

AVERAGE BEAM ANGLE (50%): 114.2°

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.



Flexglo™ F10B Monochrome - Colorful Light (Silicone), thanks to the excellent weatherproof and UV-resistant performance of silicone material, it features a wide ambient working temperature range of -40-65 $^{\circ}\text{C}\textsc{,}$ especially suitable for harsh environment application.

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-F10B-HB	C-SFR-F10B-HB	C-SFR-F10B-HB
Voltage (V)	24	24	12
Current (mA/m)	145.8	187.5	375
Power (W/m)	3.5	4.5	4.5
Circuit Type	CV	CV	CV
LED Type	2835	2835	2835
LEDs Qty/m	72	72	72
LEDs Qty/unit	9	6	3
Unit/m	8	12	24
Min. Cutting Length (mm)	125	83.3	41.7
Min. Cutting Length (in)	4.92	3.28	1.64

Optical Parameter

Name Code		Finished Product							
ltem Code	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance				
C-SFR-F10B-HB-24CV-R-WM-72-3.5W-125	Red	618-624nm	50lm	15lm	<3nm				
C-SFR-F10B-HB-24CV-G-WM-72-4.5W-83.3	Green	522-528nm	130lm	40lm	<3nm				
C-SFR-F10B-HB-24CV-B-WM-72-4.5W-83.3	Blue	468-474nm	25lm	8lm	<3nm				
C-SFR-F10B-HB-24CV-A-WM-72-3.5W-125	Amber	588-594nm	50lm	15lm	<3nm				
C-SFR-F10B-HB-12CV-R-WM-72-4.5W-41.7	Red	618-624nm	65lm	20lm	<3nm				
C-SFR-F10B-HB-12CV-G-WM-72-4.5W-41.7	Green	522-530nm	130lm	40lm	<3nm				
C-SFR-F10B-HB-12CV-B-WM-72-4.5W-41.7	Blue	468-474nm	25lm	8lm	<3nm				
C-SFR-F10B-HB-12CV-A-WM-72-4.5W-41.7	Amber	588-594nm	65lm	20lm	<3nm				

Note: Color Tolerance refers to CLEAR standard for LED.

Max. Running Length

					J 1		1	-51	
	Туре	Swivel C	onnector	Snap Connector Socket Connector		Connector	Silicone Injection-	moulded Connector	
	IP Rating	IP	20	IP	67	IP	67	IP68	
	Item Code	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed
DC24V	C-SFR-F10B-3.5W	15m/49.2ft	30m/98.4ft	30m/98.4ft	60m/196.8ft	30m/98.4ft	60m/196.8ft	30m/98.4ft	60m/196.8ft
DC24V	C-SFR-F10B-4.5W	15m/49.2ft	30m/98.4ft	30m/98.4ft	60m/196.8ft	30m/98.4ft	60m/196.8ft	30m/98.4ft	60m/196.8ft
DC12V	C-SFR-F10B-4.5W	7.5m/24.6ft	15m/49.2ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/196.8ft
Dimension of Connector PageF10 032 PageF10 035 PageF		10 038	Page	10 047					
Max	.Packing Lenght								

- 1. Above conclusion is based on voltage drop testing result of the light with 0.3m (0.98ft) cable only.
 2. The maximum running length is based on the light in static full loading status.
- 3. Above running length is only the light length excluding lengths of connectors. Please refer to the specific dimension of each connector
- 4. The delivery length might be subject to the maximum packing length.

Flexglo[™]F10B Monochrome - White Light (Silicone)



Flame Resistant

























Ambient Working Temperature ≤4.5W/m -40 ~ 65°C /-40~131°F



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



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





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

specified in the non-working state of light.

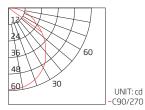


Constant Voltage DC24V, DC12V

C-SFR-F10B-HB



C-SFR-F10B-HB-24CV-30K-WM-72-80-4.5W-83.3



AVERAGE BEAM ANGLE (50%):108.8°

Min. Bending Diameter 90mm/3.54in













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

- $1. \, The \, illuminated \, light \, length \, shall \, be \, an \, integral \, multiple \, of \, min. \, cutting \, length.$
- 2. The waterproof reliability of the lighting fixture depends on the IP rating of connector, and please $make\ sure\ connector\ is\ properly\ assembled\ before\ installation.\ The\ highest\ IP\ rating\ we\ can\ achieve\ is\ IP68.$

С	SFR	F10B	НВ	24CV	30K	WM	72	80	4.5W	83.3
Company	Material	Product Series	Bending Direction	Voltage & Circuit Type	Color	Base & Lighting Surface	LEDs Qty/m	CRI	Power/m	Min. Cutting Length (mm)
Clear	SFR= Silicone Flex Ribbon	F10 B= Monochrome	HB= Horizontal Bending	DC24V & Constant Voltage DC12V & Constant Voltage	22K=2200K 27K=2700K 30K=3000K 35K=3500K 40K=4000K 57K=5700K 27K=2700K 30K=3000K 40K=4000K 30K=3000K	WM= White & Milky	72	90 95	4.5W	83.3 (DC24V) 41.7 (DC12V)

FlexgloTM F10B Monochrome - White Light (Silicone) is an item designed for architectural market with rated power 4.5W/m. Its CRI value can reach 95Ra and maximum luminous flux is up to 130Im/m. Thanks to the excellent weatherproof and UV-resitant performance of silicone material, it features a wide ambient working temperature range of -40-65 °C, especially suitable for harsh environment application.

Multiple connector options are available for different applications. Combined with the adoption of the DryWire™ technology.

*The IP60 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 ClearTechTM such as the PinBoostTM technology enhancing physical reliability of light engine, the TwinFlexTM technology improving the conductivity and optimizing heat dissipation performance, the C-MaskTM technology making the light body self-cleaning and anti-UV and enabling consistent illumination.

Electrical Parameter

Category	C-SFR-F10B-HB	C-SFR-F10B-HB	
Voltage (V)	24	12	
Current (mA/m)	187.5	375	
Power (W/m)	4.5	4.5	
Circuit Type	CV	CV	
LED Type	2835	2835	
LEDs Qty/m	72	72	
LEDs Qty/unit	6	3	
Unit/m	12	24	
Min. Cutting Length (mm)	83.3	41.7	
Min. Cutting Length (in)	3.28	1.64	

Optical Parameter

CRI 80

n 6 l			Finished Prod	luct			LED	
Item Code	ССТ	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F10B-HB-24CV-22K-WM-72-80-4.5W-83.3	2200K	2238±102K	<5SDCM	80	110lm	34lm	<2.3SDCM	82~87
C-SFR-F10B-HB-24CV-27K-WM-72-80-4.5W-83.3	2700K	2725±145K	<5SDCM	80	130lm	40lm	<2.3SDCM	82~87
C-SFR-F10B-HB-24CV-30K-WM-72-80-4.5W-83.3	3000K	3045±175K	<5SDCM	80	130lm	40lm	<2.3SDCM	82~87
C-SFR-F10B-HB-24CV-35K-WM-72-80-4.5W-83.3	3500K	3465±245K	<5SDCM	80	130lm	40lm	<2.3SDCM	82~87
C-SFR-F10B-HB-24CV-40K-WM-72-80-4.5W-83.3	4000K	3985±275K	<5SDCM	80	130lm	40lm	<2.3SDCM	82~87
C-SFR-F10B-HB-24CV-57K-WM-72-80-4.5W-83.3	5700K	5669±355K	<5SDCM	80	130lm	40lm	<2.3SDCM	82~87
C-SFR-F10B-HB-12CV-22K-WM-72-80-4.5W-41.7	2200K	2238±66K	<5SDCM	80	110lm	34lm	<2.3SDCM	82~87
C-SFR-F10B-HB-12CV-27K-WM-72-80-4.5W-41.7	2700K	2725±85K	<5SDCM	80	130lm	40lm	<2.3SDCM	82~87
C-SFR-F10B-HB-12CV-30K-WM-72-80-4.5W-41.7	3000K	3045±105K	<5SDCM	80	130lm	40lm	<2.3SDCM	82~87
C-SFR-F10B-HB-12CV-35K-WM-72-80-4.5W-41.7	3500K	3465±245K	<5SDCM	80	130lm	40lm	<2.3SDCM	82~87
C-SFR-F10B-HB-12CV-40K-WM-72-80-4.5W-41.7	4000K	3985±150K	<5SDCM	80	130lm	40lm	<2.3SDCM	82~87
C-SFR-F10B-HB-12CV-57K-WM-72-80-4.5W-41.7	5700K	5669±305K	<5SDCM	80	130lm	40lm	<2.3SDCM	82~87

CRI 95

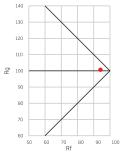
	ltem Code		Finished Product						LED	
			CCT Tolerance	Color Tolerance	CRI	R9	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SF	R-F10B-HB-24CV-30K-WM-72-95-4.5W-83.3	3000K	3045±175K	<5SDCM	95	80~99	90lm	27lm	<2.3SDCM	96~99
C-SF	R-F10B-HB-12CV-30K-WM-72-95-4.5W-41.7	3000K	3045±105K	<5SDCM	95	80~99	90lm	27lm	<2.3SDCM	96~99

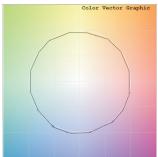
		Finished Product							LED	
ltem Code	CCT	CCT Tolerance	Color Tolerance	CRI	R9	Lumen/m	Lumen/ft	Color Tolerance	CRI	
C-SFR-F10B-HB-24CV-27K-WM-72-90-4.5W-83.3	2700K	2725±145K	<5SDCM	90	35~80	105lm	32lm	<2.3SDCM	91~97	
C-SFR-F10B-HB-24CV-30K-WM-72-90-4.5W-83.3	<u> </u>	3045±175K	<5SDCM	90	35~80	105lm	32lm	<2.3SDCM	91~97	
C-SFR-F10B-HB-24CV-35K-WM-72-90-4.5W-83.3	3500K	3465±245K	<5SDCM	90	35~80	105lm	32lm	<2.3SDCM	91~97	
C-SFR-F10B-HB-24CV-40K-WM-72-90-4.5W-83.3	4000K	3985±275K	<5SDCM	90	35~80	105lm	32lm	<2.3SDCM	91~97	
C-SFR-F10B-HB-12CV-27K-WM-72-90-4.5W-41.7	<u> </u>	2725±85K	<5SDCM	90	35~80	105lm	32lm	<2.3SDCM	91~97	
C-SFR-F10B-HB-12CV-30K-WM-72-90-4.5W-41.7	<u> </u>	3045±105K	<5SDCM	90	35~80	105lm	32lm	<2.3SDCM	91~97	
C-SFR-F10B-HB-12CV-35K-WM-72-90-4.5W-41.7	3500K	3465±245K	<5SDCM	90	35~80	105lm	32lm	<2.3SDCM	91~97	
C-SFR-F10B-HB-12CV-40K-WM-72-90-4.5W-41.7	4000K	3985±150K	<5SDCM	90	35~80	105lm	32lm	<2.3SDCM	91~97	

CCT tolerance and color tolerance both refer to ANSI C78.377 standard.

The color tolerance of finished products is kept <5SDCM from batch to batch and narrowed to <3SDCM at the same batch.

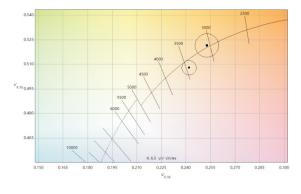
TM-30





IES TM-30-15 is a new system of several related measures and graphics that can be used together to effectively evaluate and communicate a light source's color rendering properties. The development of the method involved synthesizing multiple related research $\,$ efforts and combining ideas into a single, cohesive system of objective information that can be used to aid decision-making processes, such as finding the preferred light source for a given application or evaluating the tradeoffs between efficacy and color rendering.

Measure	Abbreviation	Description
Fidelity Index	Rf	Analogous to CIE Ra (CRI). Characterizes the average color shift of the 99 CES to characterize the overall level of similarity between the test source and reference illuminant. Values range from 0 to 100.
Gamut Index	Rg	Compares the area enclosed by the average chromaticity coordinates in each of 16 hue bins to characterize the average saturation level of the test source compared to the reference illuminant. A neutral score is 100, with values greater than 100 indicating an increase in saturation and values less than 100 indicating a decrease in saturation. The range in values grows as fidelity decreases.



Color Matching

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

Max. Running Length

		1: 1	J 3;				251	
Type	Swivel Co	onnector	Snap Co	onnector	Socket Connector		Silicone Injection-moulded Connector	
IP Rating	IP	20	IP	67	IP67		IP68	
Item Code	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed	Single-end Feed	Double-end Feed
DC24V C-SFR-F10B-4.5W	15m/49.2ft	30m/98.4ft	30m/98.4ft	60m/196.8ft	30m/98.4ft	60m/196.8ft	30m/98.4ft	60m/196.8ft
DC12V C-SFR-F10B-4.5W	7.5m/24.6ft	15m/49.2ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft	15m/49.2ft	30m/98.4ft
Dimension of Connector	Dimension of Connector PageF10 032		PageF10 035		PageF10 038		Page10 047	
Max.Packing Lenght	PageF10 080							

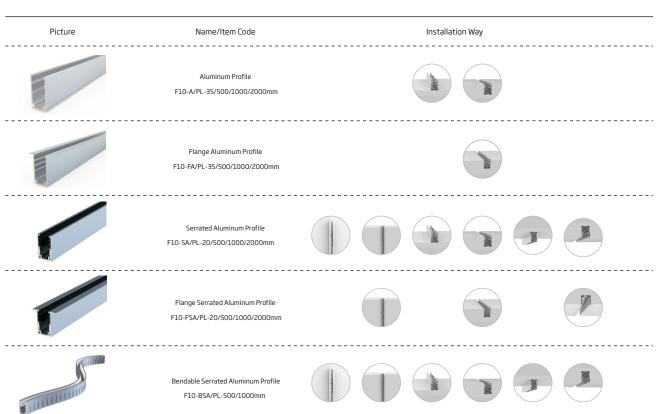
- 1. Above conclusion is based on voltage drop testing result of the light with 0.3 m (0.98 ft) cable only.
- 2. The maximum running length is based on the light in static full loading status.

 3. Above running length is only the light length excluding lengths of connectors. Please refer to the specific dimension of each connector
- 4. The delivery length might be subject to the maximum packing length.

F10B Connector (Silicone)

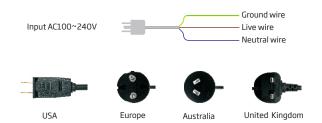
Type/IP Rating	Bending Direction	Front Connector End	Front Connector Side from Left	Front Connector Side from Right	Front Connector Bottom	Seamless Middle Connector & Power Feed	Middle Connector & Power T-feed	Jumper	End Cap
Swivel Connector IP20	HB	F10B-HB-SW/FC- 01/02-E-0.3m/1m 22AWG*2	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	F10-SW/EC
Snap Connector IP67	НВ	F10B-HB-SN/FC- 01/02-E- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-SN/FC- 01/02-SL- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-SN/FC- 01/02-SR- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-SN/FC- 01/02-B- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	N/A N/A	F10B-HB-SN/MC- PTF-01/02- 0.3m/1m/3m 18AWG*2	F10B-HB-SN/JU- 01/02- 0.3m/Im 18AWG*2	F10-SN/EC-01/02
Socket Connector IP67	НВ	F10B-HB-S0/FC- 01/02-E- 0.3m/1m/3m/5m 18AWG*2	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	F10-S0/EC
Silicone Injection- moulded Connector IP68	НВ	F10B-HB-SIM/FC- 01/02-E- 0.3m/3m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-SIM/FC- 02-SL- 0.3m/Im/Sm/5m/ 10m/15m/20m 18AWG*2	F10B-HB-SIM/FC- 01-SR 03m/1m/3m/5m/ 10m/15m/20m 18AWG*2	F10B-HB-SIM/FC- 01/02-B- 0.3m/1m/3m/5m/ 10m/15m/20m 18AWG*2	N/A N/A	F10B-HB-SIM/MC- PTF-0.3m/1m/3m 18AWG*2	F10B-HB-SIM/JU- 0.3m/Im 18AWG*2	F10-SIM/EC

F10 Mounting Profile

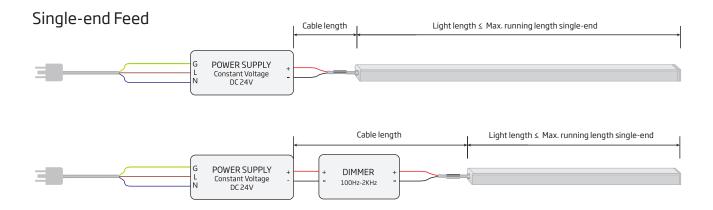


Flexglo[™]F10B Wiring Diagram

- Please use a constant voltage power supply with corresponding output voltage, and rated wattage of the power supply shall be 25% more than the actual power consumption of light to increase its life expectancy;
- This wiring diagram is using the mains of AC230V with brown and blue wires as an example, and please connect with the corresponding live and neutral wires for other mains electricity;
- 3. Dimming frequency ranges from 100Hz to 2000Hz, and 500Hz is recommended.



4. Types of standard plugs are optional if power cord is purchased from CLEAR.



Light Length:

The length of the longest single light in parallel connection or sum of lights in series connection.

Cable Length:

The length of an electrical cable between power output end and light input end, and the cables for serial interconnection are inclusive.

How to Minimize Voltage Drop

- 1. Please ensure the cable length is not more than the table "Max. Cable Length" according to light length and its wire gauge.
- $2. \, Please \, ensure \, the \, light \, length \, is \, less \, than \, the \, cable \, ''Max. \, Running \, Length \, Single-end \, Feed''.$

Max. Running Length Single-end Feed

Input: DC24V

(Connector Type	Swivel Connector	Snap Connector	Socket Connector	Injection-moulded Connector	Dual Injection-moulded Connector
	Wire Gauge	22AWG*2	18AWG*2	18AWG*2	18AWG*2	18AWG*2
C-FR	F10B-24CV-3.5W	10m/32.8ft	20m/65.6ft	20m/65.6ft	20m/65.6ft	20m/65.6ft
C-FR	F10B-24CV-4.5W	10m/32.8ft	15m/49.2ft	15m/49.2ft	15m/49.2ft	15m/49.2ft
C-SFF	-F10B-24CV-3.5W	15m/49.2ft	30m/98.4ft	30m/98.4ft	30m/98.4ft	
C-SFF	-F10B-24CV-4.5W	15m/49.2ft	30m/98.4ft	30m/98.4ft	30m/98.4ft	

Input: DC12V

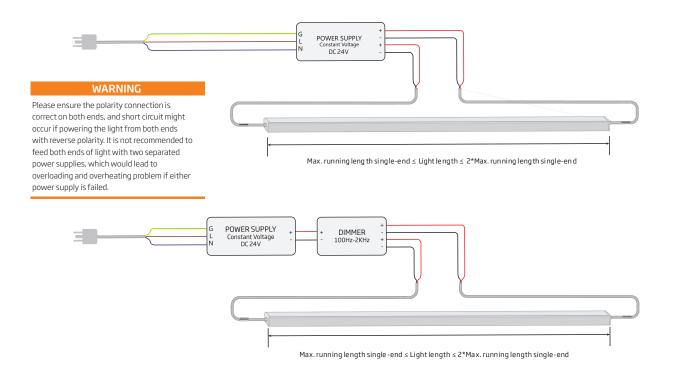
Connector Type	Swivel Connector	Snap Connector	Socket Connector	Injection-moulded Connector	Dual Injection-moulded Connector
Wire Gauge	22AWG*2	18AWG*2	18AWG*2	18AWG*2	18AWG*2
C-FR-F10B-12CV-4.5W	5m/16.4ft	7.5m/24.6ft	7.5m/24.6ft	7.5m/24.6ft	7.5m/24.6ft

Note:

- 1. Above conclusion is based on voltage drop testing result of the light with 0.3m (0.98ft) cable only.
- $2. The \ maximum \ running \ length \ is \ based \ on \ the \ designated \ light \ in \ static \ full \ loading \ status.$
- 3. Above running length is only the light length excluding lengths of connectors.
- 4. The delivered length might be subject to the maximum packing length.

Double-end Feed

The following wiring diagram with double-end feed to run length that is longer than max. running length for single-end feed but less than twice the value.



Light Length:

The length of the longest single light in parallel connection or sum of lights in series connection.

Cable Length:

The length of an electrical cable between power output end and light input end, and the cables for serial interconnection are inclusive.

How to Minimize Voltage Drop

- 1. It is optimal to position the power supply in the middle of a single light or multiple lines in daisy chain to keep the equivalent cable length on both ends for double-end feed.
- $2. \ Please ensure the cable length is not more than the table "Max. Cable Length" according to the half of light length and its wire gauge.\\$
- ${\it 3. Please ensure the light length is less than the table "Max. Running Length Double-end Feed".}\\$

Max. Running Length Double-end Feed

Input: DC24V

Connector Type	Swivel Connector	Snap Connector	Socket Connector	Injection-moulded Connector	Dual Injection-moulded Connector
Wire Gauge	22AWG*2	18AWG*2	18AWG*2	18AWG*2	18AWG*2
C-FR-F10B-24CV-3.5W	20m/65.6ft	40m/131.2ft	40m/131.2ft	40m/131.2ft	40m/131.2ft
C-FR-F10B-24CV-4.5W	20m/65.6ft	30m/98.4ft	30m/98.4ft	30m/98.4ft	30m/98.4ft
C-SFR-F10B-24CV-3.5W	30m/98.4ft	60m/196.8ft	60m/196.8ft	60m/196.8ft	
C-SFR-F10B-24CV-4.5W	30m/98.4ft	60m/196.8ft	60m/196.8ft	60m/196.8ft	

Input: DC12V

Connector Type	Swivel Connector	Snap Connector	Socket Connector	Injection-moulded Connector	Dual Injection-moulded Connector
Wire Gauge	22AWG*2	18AWG*2	18AWG*2	18AWG*2	18AWG*2
C-FR-F10B-12CV-4.5W	10m/32.8ft	15m/49.2ft	15m/49.2ft	15m/49.2ft	15m/49.2ft

Note:

- $1. Above \ conclusion \ is \ based \ on \ voltage \ drop \ testing \ result \ of \ the \ light \ with \ 0.3m \ (0.98ft) \ cable \ only.$
- 2. The maximum running length is based on the designated light in static full loading status.
- ${\it 3.}\, Above \, running \, length \, is \, only \, the \, light \, length \, excluding \, lengths \, of \, connectors.$
- ${\bf 4.} \ {\bf The} \ {\bf delivered} \ {\bf length} \ {\bf might} \ {\bf be} \ {\bf subject} \ {\bf to} \ {\bf the} \ {\bf maximum} \ {\bf packing} \ {\bf length}.$

F10B Max. Cable Length (PVC)

Input: DC24V/DC12V

				1		1	Length				
Item Code	Light Length		0.32 mm ² 0.52 mm ²		0.81 mm ²		1.32 mm ²		2.07 mm ²		
	(m)		AWG		AWG		AWG		AWG		AWG
		m	ft	m	ft	m	ft	m	ft	m	ft
	1	136.7	448.4	222.1	728.7	346.0	1135.1	563.8	1849.9	884.2	2900
	2	68.6	225.0	111.4	365.6	173.6	569.5	282.9	928.1	443.6	1455.
	3	46.0	150.9	74.7	245.1	116.4	381.8	189.7	622.3	297.4	975.8
	4	33.2	108.9	53.9	177.0	84.0	275.7	136.9	449.3	214.8	704.6
	5	25.8	84.5	41.9	137.3	65.2	213.9	106.3	348.6	166.6	546.7
	6	21.6	70.8	35.0	115.0	54.6	179.1	89.0	291.9	139.5	457.7
	7	17.8	58.5	29.0	95.1	45.1	148.1	73.6	241.3	115.3	378.4
	8	15.1	49.4	24.5	80.4	38.1	125.2	62.2	204.0	97.5	319.9
		12.9	42.3	20.9	68.7	32.6	107.0	53.1	174.3	83.3	
	9					+		† ·		t	273.4
-FR-F10B-3.5W	10	11.1	36.6	18.1	59.4	28.2	92.6	46.0	150.8	72.1	236.6
(DC 24V)	11	9.1	30.0	14.8	48.7	23.1	75.9	37.7	123.7	59.1	193.9
	12	8.0	26.2	13.0	42.6	20.2	66.3	33.0	108.1	51.7	169.5
	13	7.0	23.0	11.4	37.3	17.7	58.1	28.9	94.7	45.3	148.5
	14	5.7	18.6	9.2	30.2	14.4	47.1	23.4	76.7	36.7	120.3
	15	4.9	16.2	8.0	26.3	12.5	41.0	20.3	66.8	31.9	104.7
	16	3.9	12.7	6.3	20.6	9.8	32.1	16.0	52.3	25.0	82.1
	17	2.9	9.5	4.7	15.5	7.3	24.1	12.0	39.2	18.7	61.5
	18	2.4	7.8	3.9	12.7	6.0	19.8	9.9	32.3	15.5	50.7
	19	1.9	6.3	3.1	10.3	4.9	16.0	8.0	26.1	12.5	41.0
	20	1.1	3.7	1.8	6.0	2.8	9.3	4.6	15.2	7.3	23.8
	1	95.7	313.9	155.5	510.1	242.2	794.6	394.7	1294.9	618.9	2030
		46.7	153.3	75.9	249.1	118.3	388.1	192.8	632.4	302.3	991.7
	2					+		+		+	
	3	30.1	98.7	48.9	160.4	76.2	249.9	124.1	407.2	194.6	638.
	4	21.7	71.1	35.2	115.5	54.8	180.0	89.4	293.3	140.2	459.
	5	16.7	54.9 	27.2	89.3 	42.4	139.1	69.1	226.6	108.3	355.4
	6	13.4	43.9	21.8	71.4	33.9	111.2	55.3	181.3	86.7	284.
	7	10.8	35.3	17.5	57.3	27.2	89.3	44.4	145.6	69.6	228.3
-FR-F10B-4.5W	8	8.8	28.8	14.3	46.8	22.2	73.0	36.2	118.9	56.8	186.5
(DC 24V)	9	7.2	23.5	11.7	38.2	18.1	59.5	29.6	97.0	46.4	152.2
	10	5.7	18.6	9.2	30.3	14.4	47.2	23.4	76.9	36.7	120.5
	11	4.5	14.7	7.3	23.9	11.3	37.2	18.5	60.6	29.0	95.0
	12	3.4	11.3	5.6	18.4	8.7	28.6	14.2	46.6	22.3	73.1
	13	2.6	8.4	4.2	13.7	6.5	21.4	10.6	34.8	16.6	54.6
	14	1.8	5.9	2.9	9.6	4.5	14.9	7.4	24.2	11.6	38.0
	15	1.1	3.6	1.8	5.8	2.8	9.1	4.5	14.8	7.1	23.2
	1	37.7	123.7	61.3	201.1	95.5	313.2	155.6	510.4	244.0	800.
	2	17.3	56.7	28.1	92.2	43.8	143.5	71.3	233.9	111.8	366.8
	3	10.5	34.4	17.0	55.9	26.5	87.0	43.2	141.8	67.8	222.
	4	7.1	23.2	11.5	37.7	17.9	58.7	29.2	95.7	45.7	150.1
-FR-F10B-3.5W	5	4.5	14.8	7.3	24.0	11.4	37.4	18.6	60.9	29.1	95.5
(DC 12V)	6	2.7	8.9	4.4	14.5	6.9	22.6	11.2	36.8	17.6	57.7
	7	1.5	4.8	2.4	7.8	3.7	12.1	6.0	19.7	9.4	30.9
	8	0.4	1.4	0.7	2.3	1.1	3.6	1.8	5.9	2.8	9.3
	1	29.3	96.2	47.7	156.4	74.2	243.6	121.0	397.0	189.7	622.5
	2	13.4	44.1	21.8	71.7	34.0	111.6	55.5	181.9	87.0	285.3
	3	8.1	26.7	13.2	43.4	20.6	67.7	33.6	110.3	52.7	172.9
-FR-F10B-4.5W	4					13.9		+		+	
(DC 12V)		5.5	18.0	8.9	29.3 	+	45.7	22.7	74.4	35.6	116.7
	5	3.5	11.5	5.7	18.7 	8.9	29.1	14.4	47.4	22.6	74.3
	6	2.1	6.9	3.4	11.3	5.4	17.6	8.7	28.6	13.7	44.9
	7	1.1	3.7	1.8	6.0	2.9	9.4	4.7	15.3	7.3	24.0
	8	0.3	1.1	0.6	1.8	0.9	2.8	1.4	4.6	2.2	7.2

Note

E.g.

Single-end feed, C-FR-F10B-4.5W, 5m light length when with 18AWG wire, max. cable length should refer to the corresponding value 42.4m for 5m light length;

Double-end feed, C-FR-F10B-4.5W, 10m light length when with 18AWG wire, max. cable length of each end should refer to the corresponding value 42.4m for half of light length 5m;

^{1.} Please check the wire gauge of your connector in the table "Max. Running Length".

^{2.} The above cable lengths are calculated based on 10% allowable voltage drop maximum.

F10B Max. Cable Length (Silicone)

Input: DC24V/DC12V

						Cable	Length				
Item Code	Light Length	0.3	2 mm ²	0.52	2 mm ²	0.83	1 mm²	1.3	2 mm ²	2.0	7 mm²
item code	(m)	22	2AWG	20	AWG	18	AWG		AWG	14	AWG
		m	ft	m	ft	m	ft	m	ft	m	ft
	1	105.8	347.0	171.8	563.8	267.7	878.2	436.2	1431.2	684.1	2244.4
•	2	52.9	173.5	85.9	281.9	133.8	439.1	218.1	715.6	342.0	1122.2
-	3	35.3	115.7	57.3	187.9	89.2	292.7	145.4	477.1	228.0	748.1
	4	25.7	84.2	41.7	136.9	65.0	213.2	105.9	347.5	166.1	544.9
-	5	20.5	67.2	33.3	109.2	51.9	170.1	84.5	277.2	132.5	434.7
-	6	16.4	54.0	26.7	87.7	41.6	136.6	67.8	222.6	106.4	349.0
-	 7	14.2	46.5	23.0	75.5	35.9	117.7	58.4	191.7	91.7	300.7
		11.9	39.0	19.3	63.3	30.1	98.7	49.0	160.8	76.8	252.1
-		10.6	34.7	17.2		26.8	88.0	43.7	143.3	68.5	224.8
-	9			h		+		t		+	
-	10	9.1	30.0	14.9	48.8	23.2	76.0	37.7	123.8	59.2	194.2
-	11	8.0	26.1	12.9	42.4	20.1	66.1	32.8	107.6	51.4	168.8
-	12	6.9	22.8	11.3	37.0	17.6	57.7 	28.6	94.0	44.9	147.4
		6.1	20.0	9.9	32.6	15.5	50.7	25.2	82.7	39.5	129.6
-	14	5.7	18.8	9.3	30.5	14.5	47.5	23.6	77.4	37.0	121.3
-SFR-F10B-3.5/4.5W	15	5.1	16.6	8.2	26.9	12.8	42.0	20.9	68.4	32.7	107.3
(DC 24V)	16	4.5	14.7	7.3	23.9	11.4	37.2	18.5	60.7	29.0	95.2
	17	4.0	13.1	6.5	21.3	10.1	33.1	16.4	54.0	25.8	84.6
	18	3.3	10.7	5.3	17.4	8.3	27.1	13.5	44.1	21.1	69.2
•	19			4.6	15.2	7.2	23.8	11.8	38.7	18.5	60.7
-	20			4.1	13.3	6.3	20.8	10.3	33.8	16.2	53.0
-	21			3.5	11.5	5.5	18.0	8.9	29.3	14.0	46.0
-	22			3.0	9.9	4.7	15.5	7.7	25.2	12.0	39.5
-	23			2.6	8.4	4.0	13.1	6.5	21.3	10.2	33.4
-	24			2.1	7.0	3.3	10.9	5.4	17.7	8.5	27.8
-	25			1.7	 5.7	2.7	8.8	4.4	14.4	6.9	22.5
-	26			1.3	4.4	2.1	6.9	+		5.3	17.5
-						+		3.4	11.2	+	
-	27			0.7	2.2	1.0	3.4	1.7	5.5	2.6	8.6
	28			0.3	1.1	0.5	1.6	0.8	2.7	1.3	4.2
-		52.9	173.5	85.9	281.9	133.8	439.1	218.1	715.6	342.0	1122.2
	2	26.4	86.7	43.0	141.0	66.9	219.6	109.1	357.8	171.0	561.1
	3	17.6	57.8	28.6	94.0	44.6	146.4	72.7	238.5	114.0	374.1
	4	12.8	42.1	20.9	68.4	32.5	106.6	53.0	173.7	83.0	272.4
	5	10.2	33.6	16.6	54.6	25.9	85.1	42.3	138.6	66.3	217.4
	6	8.2	27.0	13.4	43.8	20.8	68.3	33.9	111.3	53.2	174.5
	7	7.1	23.2	11.5	37.8	17.9	58.8	29.2	95.9	45.8	150.3
CED E10D 3 E /4 EW	8	5.9	19.5	9.7	31.7	15.0	49.3	24.5	80.4	38.4	126.1
SFR-F10B-3.5/4.5W - (DC12V)	9	5.3	17.4	8.6	28.2	13.4	44.0	21.8	71.7	34.3	112.4
(55221)	10	·		7.4	24.4	11.6	38.0	18.9	61.9	29.6	97.1
-				6.5	21.2	10.1	33.0	16.4	53.8	25.7	84.4
-	11 	+		5.6	18.5	8.8	28.8	14.3	47.0	22.5	73.7
-	12 13			5.0	16.3	7.7	25.4	12.6	41.3	19.8	
-				4.6	15.2	7.2	23.7	11.8	38.7	18.5	60.7
-	14					+		+		+	
	15			4.1	13.5	6.4	21.0	10.4	34.2	16.3	53.6

Note

^{1.} Please check the wire gauge of your connector in the table "Max. Running Length".

E.g.,

Single-end feed, C-SFR-F10B-4.5W, 5m light length when with 18AWG wire, max. cable length should refer to the corresponding value 51.9m for 5m light length;
Double-end feed, C-SFR-F10B-4.5W, 10m light length when with 18AWG wire, max. cable length of each end should refer to the corresponding value 51.9m for half of light length 5m;

^{2.} The above cable lengths are calculated based on 10% allowable voltage drop maximum.

Flexglo[™]F10B Monochrome - AC230V Colorful Light (PVC)

























Ambient Working Temperature ≤5W/m -20 ~ 35°C /-4~95°F



Max. Mounting Surface Temperature 60°C /140°F

specified in the non-working state of light, and up to 85°C for silicone type.



Ambient Installation Temperature ≥ 0°C /32°F^[1]



Storage Temperature -20 ~ 60°C /-4~140°F



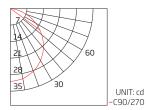


High Voltage AC230V

C-FR-F10B-HB



C-FR-F10B-HB-AC230-G-WM-72-5W-1000



AVERAGE BEAM ANGLE (50%): 111.4°

Min. Bending Diameter 90mm/3.54in



Min. Cutting Length 1000mm/39.4in 72LEDs





1. The illuminated light length shall be an integral multiple of min. cutting length. 2. The products will be made and preassembled in compliance with the required certificate and lengths, and any cutting or disassembly on site is forbidden. The overall IP rating is secured up to IP65.



Flexglo™ F10B Monochrome - AC230V Colorful Light (PVC) 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 $^{\text{TM}}$ such as the Decentifier $^{\text{TM}}$ technology eliminating the failure risks of the whole electric circuit brought by the traditional external rectifier, the C-Mask $^{\text{TM}}$ technology retarding PVC discoloration and enabling consistent illumination.

Electrical Parameter

Category	C-FR-F10B-HB ■ ■ ■
Voltage (V)	230
Current (mA/m)	21.7
Power (W/m)	5
Circuit Type	AC
LED Type	2835
LEDs Qty/m	72
LEDs Qty/unit	72
Unit/m	1
Min. Cutting Length (mm)	1000
Min. Cutting Length (in)	39.37

Optical Parameter

n . c . l		Finished P	LED		
Item Code	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-FR-F10B-HB-AC230-R-WM-72-5W-1000	Red	618-624nm	40lm	12lm	<3nm
C-FR-F10B-HB-AC230-G-WM-72-5W-1000	Green	522-528nm	80lm	24lm	<3nm
C-FR-F10B-HB-AC230-B-WM-72-5W-1000	Blue	468-474nm	12lm	4lm	<3nm
C-FR-F10B-HB-AC230-A-WM-72-5W-1000	Amber	588-594nm	60lm	18lm	<3nm

Flexglo[™]F10B Monochrome - AC230V White Light (PVC)





(<u>\</u>)

Salt Water Resistant











3500K













Ambient Working Temperature ≤5W/m -20 ~ 35°C /-4~95°F



Max. Mounting Surface Temperature 60°C /140°F

specified in the non-working state of light, and up to 85°C for silicone type.



Ambient Installation Temperature ≥ 0°C /32°F^[1]



Storage Temperature -20 ~ 60°C /-4~140°F

[1] PVC products, when operating at below 0°C, are vulnerable to breaking off from twisting and fail to work

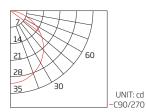


High Voltage AC230V

C-FR-F10B-HB



C-FR-F10B-HB-AC230-30K-WM-72-80-5W-1000



AVERAGE BEAM ANGLE (50%): 111.4°

Min. Bending Diameter 90mm/3.54in



Min. Cutting Length 1000mm/39.4in 72LEDs





Note:

 $1. \ The \ illuminated \ light \ length \ shall \ be \ an \ integral \ multiple \ of \ min. \ cutting \ length.$ 2. The products will be made and preassembled in compliance with the required certificate and lengths, and any cutting or disassembly on site is forbidden. The overall IP rating is secured up to IP65.

С	FR	F10B	НВ	AC230	30K	WM	72	80	5W	1000
Company	Material	Product Series	Bending Direction	Voltage & Circuit Type	сст	Base & Lighting Surface	LEDs Qty/m	CRI	Power/m	Min. Cutting Length (mm)
Clear	FR = (PVC) Flex Ribbon	F10 B= Monochrome	HB= Horizontal Bending	AC230V & High Voltage	22K=2200K 27K=2700K 30K=3000K 35K=3500K 40K=4000K 57K=5700K	WM= White & Milky	72	80	5W	1000

Flexglo™ F10B Monochrome - AC230V White Light (PVC) 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 PVC discoloration and enabling consistent illumination.

Electrical Parameter

Category	C-FR-F10B-HB
Voltage (V)	230
Current (mA/m)	21.7
Power (W/m)	5
Circuit Type	AC
LED Type	2835
LEDs Qty/m	72
LEDs Qty/unit	72
Unit/m	1
Min. Cutting Length (mm)	1000
Min. Cutting Length (in)	39.37

Optical Parameter

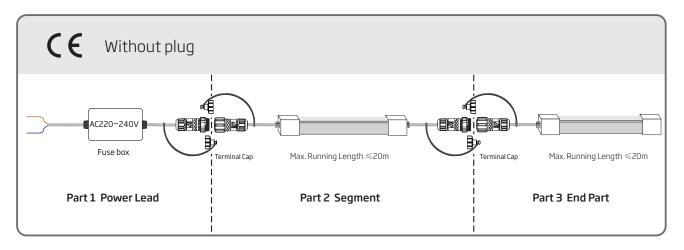
ltem Code			LED					
item code	ССТ	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-FR-F10B-HB-AC230-22K-WM-72-80-5W-1000	2200K	2238±102K	<6SDCM	80	110lm	34lm	<2.3SDCM	82~87
C-FR-F10B-HB-AC230-27K-WM-72-80-5W-1000	2700K	2725±145K	<6SDCM	80	110lm	34lm	<2.3SDCM	82~87
C-FR-F10B-HB-AC230-30K-WM-72-80-5W-1000	3000 K	3045±175K	<6SDCM	80	120lm	37lm	<2.3SDCM	82~87
C-FR-F10B-HB-AC230-35K-WM-72-80-5W-1000	3500K	3465±245K	<6SDCM	80	120lm	37lm	<2.3SDCM	82~87
C-FR-F10B-HB-AC230-40K-WM-72-80-5W-1000	4000K	3985±275K	<6SDCM	80	120lm	37lm	<2.3SDCM	82~87
C-FR-F10B-HB-AC230-57K-WM-72-80-5W-1000	5700K	5669±355K	<6SDCM	80	110lm	34lm	<2.3SDCM	82~87

Note

CCT tolerance and color tolerance both refer to ANSI C78.377 standard.

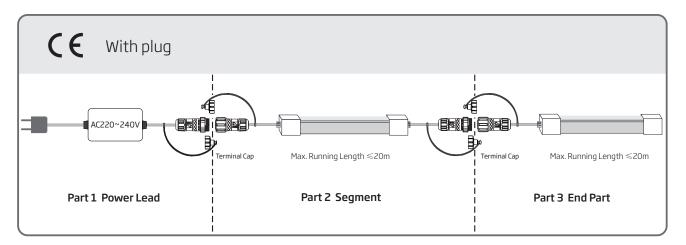
The color tolerance of finished products is kept < 6SDCM from batch to batch and narrowed to < 3SDCM at the same batch.

Flexglo[™]F10B-AC230V Wiring Diagram



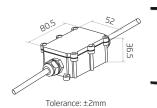


- 1. It's H05RN-F 2x1.0mm2 cable. 1.4m and 0.3m standard cable lengths before and after the fuse box correspondingly, and custom cable length is optional, while total length of cable and light shall be within 82m considering the voltage drop.
- 2. Fuse box is connected with junction box and light at 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 HO5RN-F 2x1.0mm2 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.





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

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.

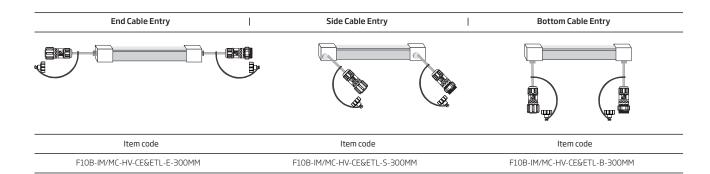
Note

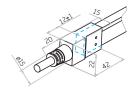
- 1. The products will be made and preassembled in compliance with the required certificate and lengths, and any cutting or disassembly on site is forbidden.
- $2. \, Attention \, should \, be \, paid \, that \, all \, unconnected \, connectors \, shall \, be \, sealed \, with \, terminal \, caps.$

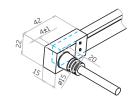


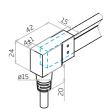
- $1.\,Maximum\,running\,length\,for\,each\,light\,is\,20m, and\,up\,to\,80m\,in\,series\,connection.$ 2. It's H05RN-F 2x1.0mm2 cable. 0.3m standard or custom cable length is optional, while total length of cable and light shall be within 82m considering the voltage drop.

 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.









Note: unless otherwise stated, the tolerance is ± 0.5 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. Maximum running length is 20m each light.
- 2. It's HOSRN-F 2x1.0mm2 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
ltem code	ltem code	ltem code
F10B-IM/EC-HV-CE&ETL-E-300MM	F10B-IM/EC-HV-CE&ETL-S-300MM	F10B-IM/EC-HV-CE&ETL-B-300MM
Fen	nale Connector Male Connecto	ır
7 AND 23		50mm



Recommended for

- 1. Indoor and dry environments.
- 2. Uncertain breakdown lengths or on-site length adjustment.



Feature

Under the simple and convenient design concept, we developed our swivel connector, which is superb for indoor concealed installation in narrow space thanks to its mini size and omni-directional cable. Navigated by user manual, tool-free and quick assembly can be realized, and Press & Seal design enables the functions of energization and dustproof rapidly.

In-house Test

Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC68-2-11

Connector Type

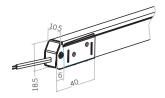


Dimension: mm

Swivel Front Connector



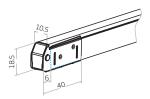
F10B-HB-SW/FC-01/02-E



Swivel End Cap



F10-SW/EC



Note:

- 1. Unless otherwise stated, the tolerance of the connector is ± 0.5 mm;
- 2. To avoid damage from the excessive force on cable joint, please keep at least 60 mm of cable ahead in the natural state.



F10B	- SW/FC -	01	Е -	- 300mm
F10B-HB	SW=Swivel FC=Front Connector EC=End Cap	01=01End 02=02End	E=End Feed	300mm Cable 1000mm Cable

Item Code(B)
F10B-HB-SW/FC-01-E-300mm
F10B-HB-SW/FC-02-E-300mm
F10-SW/EC
Max. Cable Length Page F10 023~024

Note:
1.Please ensure the cable length is not more than the "Max. Cable Length" in the page mentioned above according to light length and its wire gauge to minimize voltage drop.
2.All the nominal cable lengths are measured before processing, so the delivered (visible) ones would be a little shorter. Please contact us before ordering if any strict requirement on them.
3.The tolerance range of cable length enlarges as the cable becomes longer, maximum up to ±50mm.



Recommended for

- 1. Wet environments.
- 2. Uncertain breakdown lengths or on-site length adjustment.



Feature

To seal the end of light and ensure the waterproof in case of any cutting or extension on site, Insulfit™ technology prevents the water or vapor ingress from the end of the light. DryWire™ technology applied on the cable eliminates the capillary phenomenon through wires, which secured the long-term reliability in any wading environments.

Note: the third party IPX8 rated at the depth of 2m underwater. CLEAR self-declared IP67 considering the unexpected factors in the process of installation or the potential improper assembly on site.

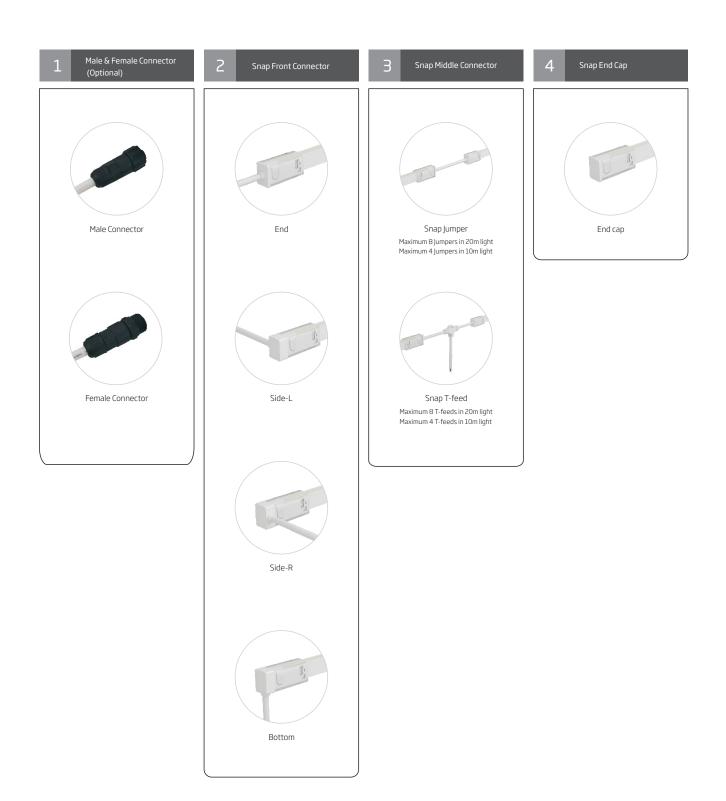
In-house Test

Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Waterproof - Connector	1	Waterproof-IPX5 / IPX7 / IPX8	CLEAR-defined [®]
	2	Swing-extreme	CLEAR-defined®

[®]Before waterproof test, high-low temperature cycling shock test has been implemented to simulate the outdoor harsh weather, and it's a more stringent standard we're compliant with than third party's.

Connector Type



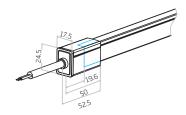


Dimension: mm



Snap Front Connector-End

F10B-HB-SN/FC-01/02-E



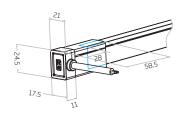


Snap Front Connector-Side

F10B-HB-SN/FC-01/02-SL



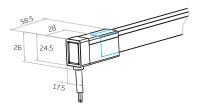
F10B-HB-SN/FC-01/02-SR





Snap Front Connector-Bottom

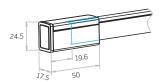
F10B-HB-SN/FC-01/02-B





Snap End Cap

F10-HB-SN/EC-01/02

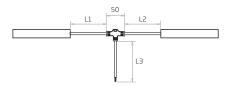




Snap Middle Connector & Power T-feed

F10B-HB-SN/MC-PTF-01/02

L1 and L2 available in 300mm. L3 available in 300mm/1000mm/3000mm.



Note:

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

2. To avoid damage from the excessive force on cable joint, please keep at least 60 mm of cable ahead in the natural state.

Anti-wicking Ferrule



The anti-wicking ferrule is located at 115mm (±10mm tolerance) from the connector on the cable.

For protection against water ingress from inside of cable wire and hence damage the light.

30mm

18AWG*2

Note:

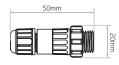
1. Unless otherwise stated, the tolerance is $\pm 0.5 \text{mm}.$

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

Male & Female Connector

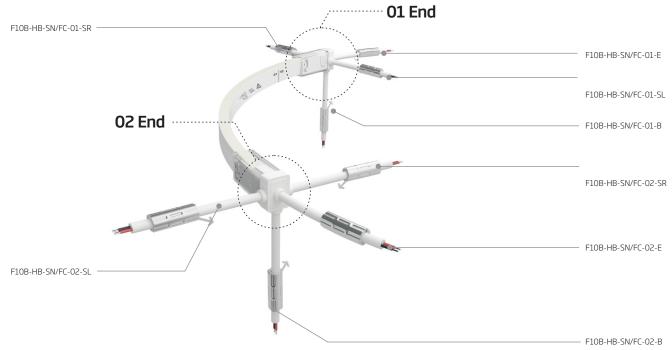


For plug and play cable junction, IP67 $\,$



Unless otherwise stated, the tolerance is ± 2 mm.





F10B-HB

Item Code(B)
F10B-HB-SN/FC-01-E-300mm
F10B-HB-SN/FC-02-E-300mm
F10B-HB-SN/FC-01-B-300mm
F10B-HB-SN/FC-02-B-300mm
F10B-HB-SN/FC-01-SR-300mm
F10B-HB-SN/FC-01-SL-300mm
F10B-HB-SN/FC-02-SR-300mm
F10B-HB-SN/FC-02-SL-300mm
F10B-HB-SN/MC-PTF-01/02-300mm
F10B-HB-SN/JU-01/02-300mm
F10-SN/EC-01
F10-SN/EC-02
Max. Cable Length Page F10 023~024

1. Please ensure the cable length is not more than the "Max. Cable Length" in the page mentioned above according to light length and its wire gauge to minimize voltage drop.

2. All the nominal cable lengths are measured before processing, so the delivered (visible) ones would be a little shorter. Please contact us before ordering if any strict requirement on them.

3. The tolerance range of cable length enlarges as the cable becomes longer, maximum up to ±50 mm.



Feature

Socket connector, a new type of field-assembly connector for outdoor use, IP67 rated, brass casing, features unexceptional adaptability and excellent weather resistance. It achieves the unique balance between waterproof performance and physical dimension, highly functional yet incredibly minimal, giving you an extraordinary visual experience due to the less dark area at the jointing area. The whole assembling process is tool-less and quick, benefiting from its simple but smart structure design.

The remarkable innovation lies in the invisible waterproof pretreatment on the cable, which facilitates the wiring and slotting on the site greatly as the extra anti-wicking ferrule on the cable is no longer needed.

In-house Test

Test Object	No.	Experiment Item	Standard	
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11	
Waterproof 1 Connector 2	Waterproof-IPX5/IPX7/IPX8	CLEAR-defined [®]		
		Swing-extreme	CLEAR-defined®	

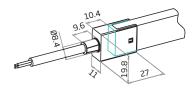
Before waterproof test, high-low temperature cycling shock test has been implemented to simulate the outdoor harsh weather, and it's a more stringent standard we're compliant with than third party's.

Dimension: mm

Socket Front Connector



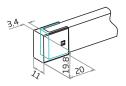
F10B-HB-S0/FC-01/02-E



Socket End Cap



F10-S0/EC



Note:

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

F10B -	SO/FC -	01	Е .	300 mm
F10B-HB	SO=Socket FC=Front Connector EC=End Cap	01=01 End 02=02 End	E=End Feed	300mm Cable 1000mm Cable 3000mm Cable 5000mm Cable

Item Code(HB)
F10B-HB-S0/FC-01-E-300mm
F10B-HB-S0/FC-02-E-300mm
F10B-S0/EC
Max. Cable Length Page F10 023~024

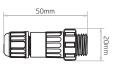
Note:

- 1. Please ensure the cable length is not more than the "Max. Cable Length" in the page mentioned above according to light length and its wire gauge to minimize voltage drop.
- 2.All the nominal cable lengths are measured before processing, so the delivered (visible) ones would be a little shorter. Please contact us before ordering if any strict requirement on them.
- ${\tt 3. The\ tolerance\ range\ of\ cable\ length\ enlarges\ as\ the\ cable\ becomes\ longer,\ maximum\ up\ to\ \pm50mm.}$

Male & Female Connector



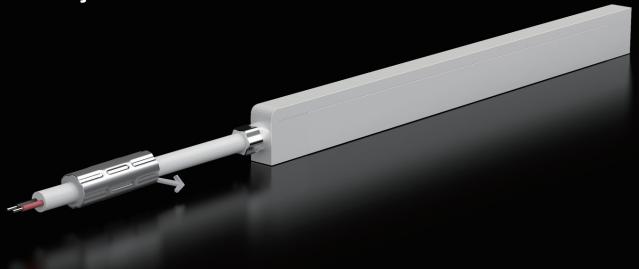
For plug and play cable junction, IP65



Note:

Unless otherwise stated, the tolerance is ±2mm.

F10 Injection-moulded Connector IP67



Recommended for

- 1. Wet environments.
- 2. Customized lengths.



Feature

Adopting precision milling and special glue PVC injection moulding workmanship, the transparent terminal of the connector allows the seamless effects spliced end by end.

The copper ring protects the cable joint from the damage of excessively external force in the process of installation. DryWire™ technology applied on the cable eliminates the capillary phenomenon through wires, which secured the long-term reliability in outdoor or any wet environments.

Light lengths can be customized on the basis of projects and pre-installation before the delivery eases the assembly trouble on site.

Note:

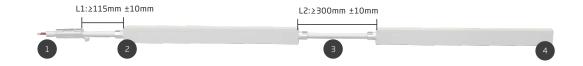
This connector has been rated as IPX8 at the depth of 2m underwater by the third party. CLEAR degraded it to IP67 considering the unexpected factors in the process of installation or the potential improper assembly on site.

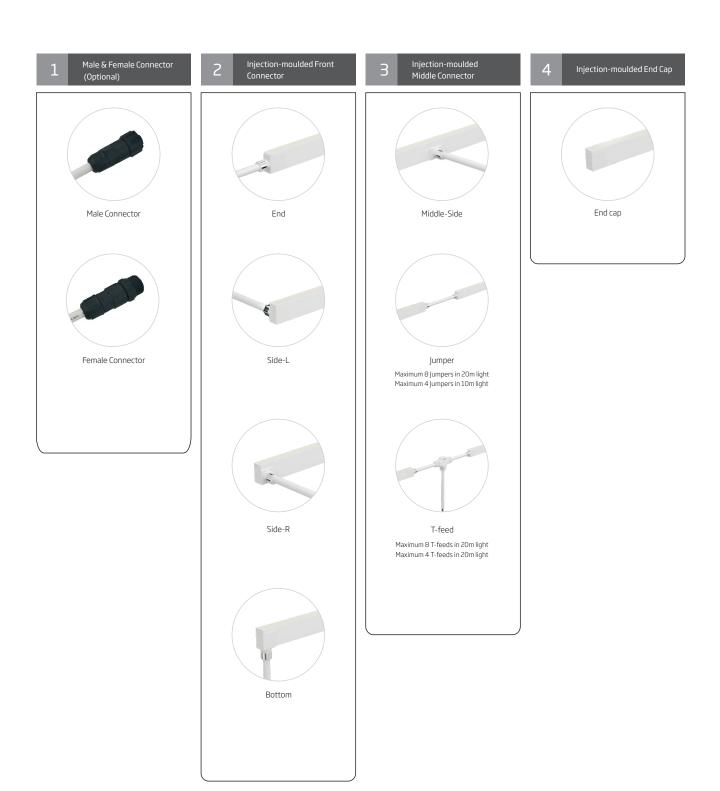
In-house Test

Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Waterproof 1 Connector 2	Waterproof-IPX5/IPX7/IPX8	CLEAR-defined [®]	
		Swing-extreme	CLEAR-defined®

[®]Before waterproof test, high-low temperature cycling shock test has been implemented to simulate the outdoor harsh weather, and it's a more stringent standard we're compliant with than third party's.

Connector Type



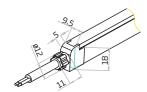


Dimension: mm



Injection-moulded Front Connector-End

F10B-HB-IM/FC-01/02-E



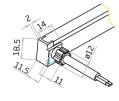


Injection-moulded Front Connector-Side

F10B-HB-IM/FC-02-SL



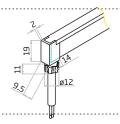
F10B-HB-IM/FC-01-SR





Injection-moulded Front Connector-Bottom

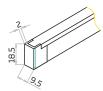
F10B-HB-IM/FC-01/02-B





Injection-moulded End Cap

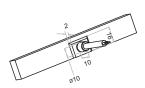
F10-IM/EC





Injection-moulded
Seamless Middle Connector
& Power Feed from Side

F10B-HB-IM/SEMC-PF-S

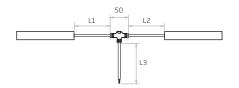




Injection-moulded Middle Connector & Power T-feed

F10B-HB-IM/MC-PTF

L1 and L2 available in 300mm. L3 available in 300mm/1000mm/3000mm.



Note

1.Unless otherwise stated, the tolerance of the connector is $\pm 0.5 \text{mm}$;

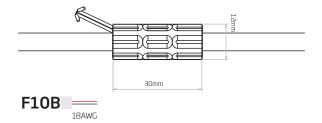
2.To avoid damage from the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

Anti-wicking Ferrule



The anti-wicking ferrule is located at 115mm (±10mm tolerance) from the connector on the cable.

For protection against water ingress from inside of cable wire and hence damage the light.



Note:

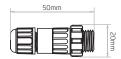
- 1. Unless otherwise stated, the tolerance is ± 0.5 mm.
- 2. The removal of anti-wicking ferrule will void the warranty if any water ingression caused by it.

Male & Female Connector

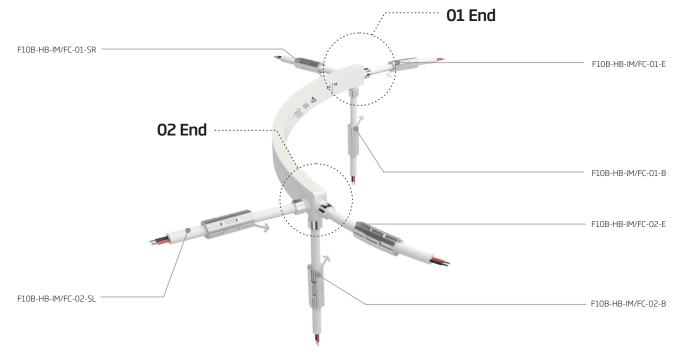


For plug and play cable junction, IP67

Unless otherwise stated, the tolerance is ±2mm.



IM/FC F₁₀B 01 В 300mm F10B-HB 01=01End IM=Injection-moulded E=End Feed 300mm Cable 02=02End FC=Front Connector $B\!=\!Bottom\,Feed$ $1000 \mathrm{mm}\,\mathrm{Cable}$ SEMC-PF-S=Seamless S=Side Feed 3000mm Cable SL=Side Feed from Left 5000mm Cable Middle Connector & SR=Side Feed from 10000mm Cable Power Feed from Side 15000mm Cable MC-PTF=Middle Right 20000mm Cable Connector & Power Tfeed JU=Jumper EC=EndCap



F10B-HB

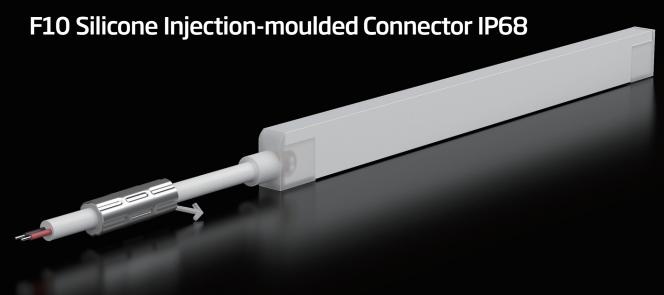
Item Code(B)
F10B-HB-IM/FC-01-E-300mm
F10B-HB-IM/FC-02-E-300mm
F10B-HB-IM/FC-01-B-300mm
F10B-HB-IM/FC-02-B-300mm
F10B-HB-IM/FC-01-SR-300mm
F10B-HB-IM/FC-02-SL-300mm
F10B-HB-IM/SEMC-PF-S-300mm
F10B-HB-IM/MC-PTF-300mm
F10B-HB-IM/JU-300mm
F10-IM/EC
Max. Cable Length Page F10 023~024

NOTE

1.Please ensure the cable length is not more than the "Max. Cable Length" in the page mentioned above according to light length and its wire gauge to minimize voltage drop.

2.All the nominal cable lengths are measured before processing, so the delivered (visible) ones would be a little shorter. Please contact us before ordering if any strict requirement on them.

3.The tolerance range of cable length enlarges as the cable becomes longer, maximum up to ±50mm.



Recommended for

- 1. Wet environments.
- 2. High-low temperature or intense humidity and UV.
- 3. Customized lengths.
- 4. Harsh working conditions or unexpected excessively external force during construction.



Feature

Precision milling and special glue Silicone liquid injection-moulded workmanship enable an almost consistent in size between connectors and light body, and the transparent terminal of the connector allows the seamless effects spliced end by end.

DryWire[™] technology applied on the cable eliminates the capillary phenomenon through wires, which secured the long-term reliability in outdoor or any wet environments.

Light lengths can be customized on the basis of projects and pre-installation before the delivery eases the assembly trouble on site.

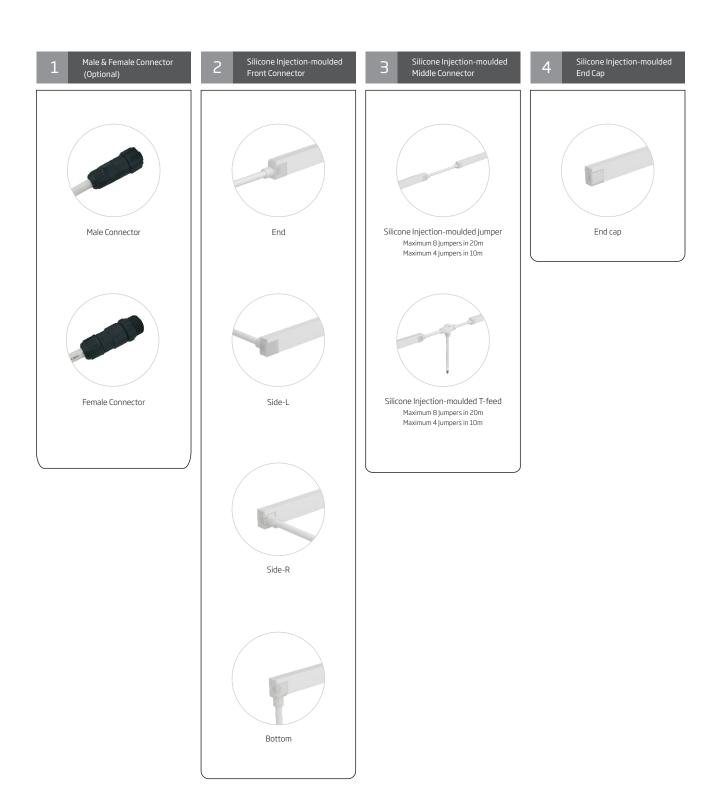
In-house Test

Test Object	No.	Experiment Item	Standard	
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11	
Waterproof 1 Connector 2	Waterproof-IPX5/IPX7/IPX8	CLEAR-defined®		
	2	Swing-extreme	CLEAR-defined [®]	

[®]Before waterproof test, high-low temperature cycling shock test has been implemented to simulate the outdoor harsh weather, and it's a more stringent standard we're compliant with than third party's.

Connector Type



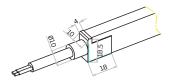


Dimension: mm



Silicone Injection-moulded Front Connector-End

F10B-HB-SIM/FC-01/02-E



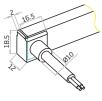


Silicone Injection-moulded Front Connector-Side

F10B-HB-SIM/FC-01-SR



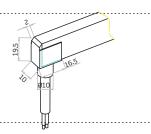
F10B-HB-SIM/FC-02-SL





Silicone Injection-moulded Front Connector-Bottom

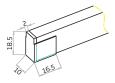
F10B-HB-SIM/FC-01/02-B





Silicone Injection-moulded End Cap

F10-SIM/EC

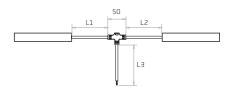




Silicone Injection-moulded Middle Connector & Power T-feed

F10B-HB-SIM/MC-PTF

L1 and L2 available in 300mm.
L3 available in 300mm/1000mm/3000mm.



Note

- 1.Unless otherwise stated, the tolerance of the connector is $\pm 0.5 \text{mm};$
- 2.To avoid damage from the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

Anti-wicking Ferrule

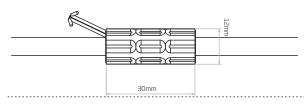






The anti-wicking ferrule is designed to lower the risk of water ingression from the cable in case of inadequate waterproof treatment on site.

For underwater application, do not immerse anti-wicking ferrule in the water.





Note:

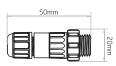
 $1. \ Unless otherwise stated, the tolerance is \pm 0.5 mm. \\ 2. \ The removal of anti-wicking ferrule will void the warranty if any water ingression caused by it.$

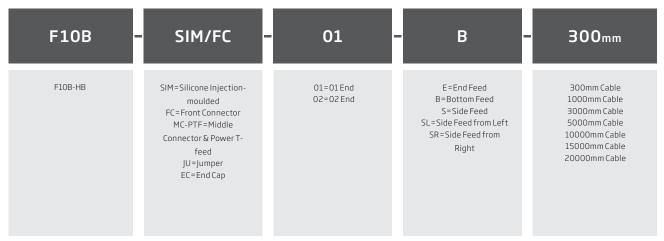
Male & Female Connector

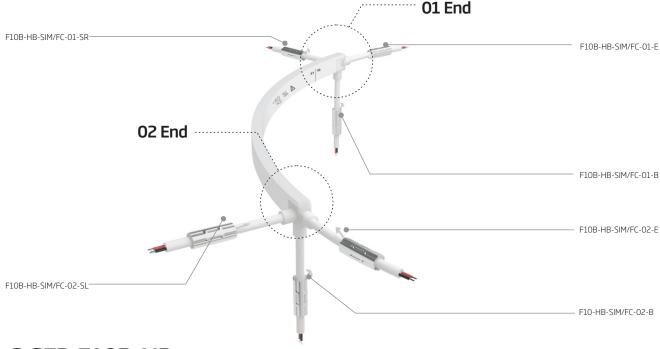


For plug and play cable junction, IP67

Unless otherwise stated, the tolerance is ±2mm.







C-SFR-F10B-HB

Item Code(B)
F10B-HB-SIM/FC-01-E-300mm
F10B-HB-SIM/FC-02-E-300mm
F10B-HB-SIM/FC-01-B-300mm
F10B-HB-SIM/FC-02-B-300mm
F10B-HB-SIM/FC-01-SR-300mm
F10B-HB-SIM/FC-02-SL-300mm
F10B-HB-SIM/MC-PTF-300mm
F10B-HB-SIM/JU-300mm
F10-SIM/EC
Max. Cable Length Page F10 023~024

NOTE:

1. Please ensure the cable length is not more than the "Max. Cable Length" in the page mentioned above according to light length and its wire gauge to minimize voltage drop.

2. All the nominal cable lengths are measured before processing, so the delivered (visible) ones would be a little shorter. Please contact us before ordering if any strict requirement on them.

3. The tolerance range of cable length enlarges as the cable becomes longer, maximum up to ±50mm.



Recommended for

- 1. Long-term "liquid" environments up to the depth of 2m (the liquid are safe to touch the human skin for a long time)
- 2. High temperature and humidity environments (mounting surface temperature <60°C).
- 3. Customized lengths and bulky connector.
- 4. Harsh working conditions.



Feature

Precision milling, copper ring, and PVC dual injection-moulded workmanship enhance the protection level and reliability of the cable joint and protect it from the damage in the process of installation, which secured the long-term reliability in wet, underwater or harsh working environments comprehensively.

Equipped with the product series F10, it is IP68 rated by SGS.

Light lengths can be customized on the basis of projects and pre-installation before the delivery eases the assembly trouble on site, and it will be a slim dark area spliced connector end by end from a long distance view.

Note:

The connector size is larger than the light body's, please refer to the following "Dimension" of connector and reserve enough installation room.

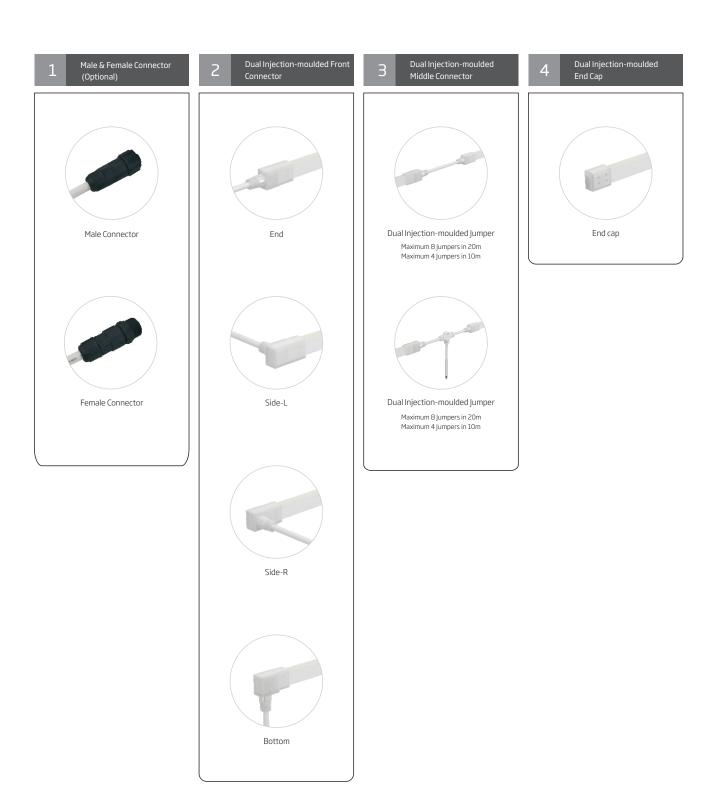
In-house Test

Test Object	No.	Experiment Item	Standard	
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11	
Waterproof 1 Connector 2	Waterproof-IPX5 / IPX7 / IPX8	CLEAR-defined®		
	2	Swing-extreme	CLEAR-defined®	

Before waterproof test, high-low temperature cycling shock test has been implemented to simulate the outdoor harsh weather, and it's a more stringent standard we're compliant with than third party's.

Connector Type



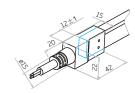


Dimension: mm



Dual Injection-moulded Front Connector-End

F10B-HB-DIM/FC-01/02-E



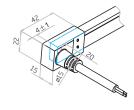


Dual Injection-moulded Front Connector-Side

F10B-HB-DIM/FC-02-SL



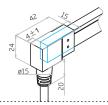
F10B-HB-DIM/FC-01-SR





Dual Injection-moulded Front Connector-Bottom

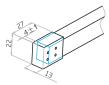
F10B-HB-DIM/FC-01/02-B





Dual Injection-moulded End Cap

F10-DIM/EC

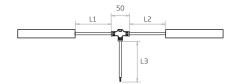




Dual Injection-moulded Middle Connector & Power T-feed

F10B-HB-DIM/MC-PTF

L1 and L2 available in 300mm. L3 available in 300mm/1000mm/3000mm.



Note:

- 1.Unless otherwise stated, the tolerance of the connector is ± 0.5 mm;
- 2.To avoid damage from the excessive force on cable joint, please keep at least 60mm of cable ahead in the natural state.

Anti-wicking Ferrule

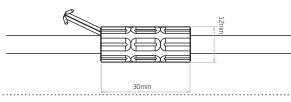






The anti-wicking ferrule is designed to lower the risk of water ingression from the cable in case of inadequate waterproof treatment on site.

For underwater application, do not immerse anti-wicking ferrule in the water.





Note:

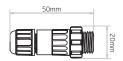
 $1. \ Unless otherwise stated, the tolerance is \pm 0.5 mm. \\ 2. \ The removal of anti-wicking ferrule will void the warranty if any water ingression caused by it.$

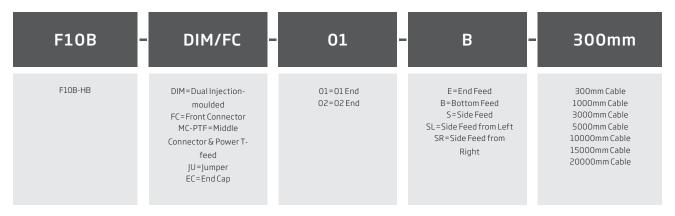
Male & Female Connector

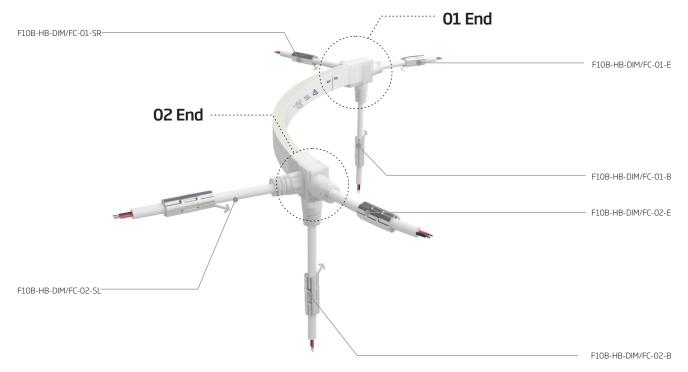


For plug and play cable junction, IP67

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







C-FR-F10B-HB

Item Code(B)
F10B-HB-DIM/FC-01-E-300mm
F10B-HB-DIM/FC-02-E-300mm
F10B-HB-DIM/FC-01-B-300mm
F10B-HB-DIM/FC-02-B-300mm
F10B-HB-DIM/FC-01-SR-300mm
F10B-HB-DIM/FC-02-SL-300mm
F10B-HB-DIM/MC-PTF-300mm
F10B-HB-DIM/JU-300mm
F10-DIM/EC
Max. Cable Length Page F10 023~024

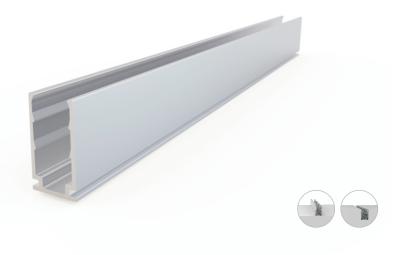
NOTE

1. Please ensure the cable length is not more than the "Max. Cable Length" in the page mentioned above according to light length and its wire gauge to minimize voltage drop.

2. All the nominal cable lengths are measured before processing, so the delivered (visible) ones would be a little shorter. Please contact us before ordering if any strict requirement on them.

3. The tolerance range of cable length enlarges as the cable becomes longer, maximum up to ±50mm.

Aluminum Profile

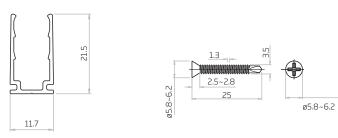


It uses high-quality 6063 aluminum with thin-wall, light- weight design to fit tightly the light body. It is deformation and rust resistant, and cost-effective.

Please refer to the applicable installation ways.

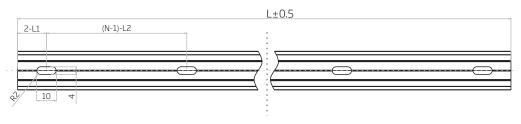
Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined

Dimension: mm





Tolerance: ± 0.3 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
F10-A/PL-35MM-AL	35mm/1.38in	17.5mm/0.69in	/	4*10mm/0.16*0.39in	1
F10-A/PL-500MM-AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
F10-A/PL-1000MM-AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
F10-A/PL-2000MM-AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

Flange Aluminum Profile

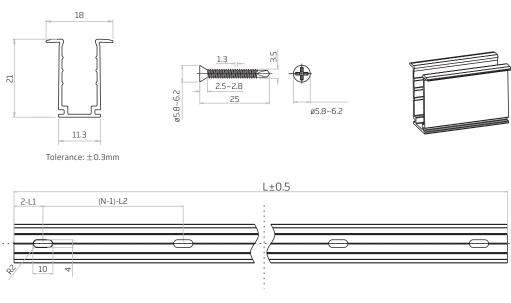


It uses high-quality 6063 aluminum with thin-wall, light- weight design to fit tightly the light body. It is deformation and rust resistant, and cost-effective. The "Flange" design is more suitable for recessed installation, better fits with the mounting groove and minimizes the operation tolerance during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



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

Item Code	Standard Length	L1	L2	Slotted Hole	Hole Number
F10-FA/PL-35MM-AL	35mm/1.38in	17.5mm/0.69in	/	4*10mm/0.16*0.39in	1
F10-FA/PL-500MM-AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
F10-FA/PL-1000MM-AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
F10-FA/PL-2000MM-AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

Serrated Aluminum Profile

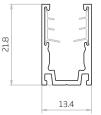


Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large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

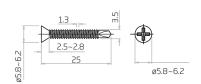
Please refer to the applicable installation ways.

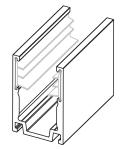
Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined

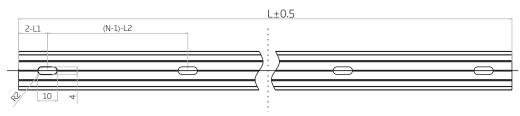
Dimension: mm



Tolerance: ±0.3mm







Note

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

ltem Code	Standard Length	L1	L2	Slotted Hole	Hole Number
F10-SA/PL-20MM-AL	20mm/0.787in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
F10-SA/PL-500MM-AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
F10-SA/PL-1000MM-AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
F10-SA/PL-2000MM-AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

Flange Serrated Aluminum Profile



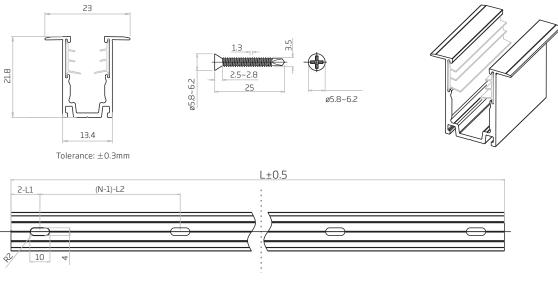
Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large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

Dimension: mm

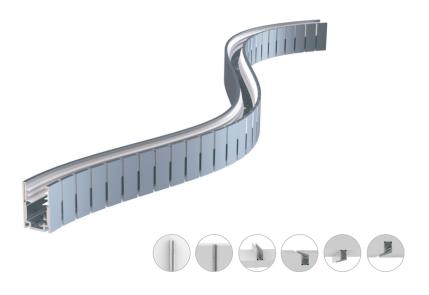


Note:

- $1.\,2\text{-L1}\,refers\,to\,two\,of\,symmetric\,L1\,in\,each\,piece\,of\,profile.$
- 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
F10-FSA/PL-20MM-AL	20mm/0.787in	10mm/0.39in	/	4*10mm/0.16*0.39in	1
F10-FSA/PL-500MM-AL	500mm/19.68in	50mm/1.97in	200mm/7.87in	4*10mm/0.16*0.39in	3
F10-FSA/PL-1000MM-AL	1000mm/39.37in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	5
F10-FSA/PL-2000MM-AL	2000mm/78.74in	100mm/3.93in	200mm/7.87in	4*10mm/0.16*0.39in	10

Bendable Serrated Aluminum Profile

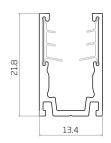


It is an expanded design of the serrated aluminum profile, and caters for the continuously streamlined aesthetics of curve shape. The secondary precision cutting process, not only maintains the advantage of clamping force, but also enables the two-way horizontal bending directions with super shape memory.

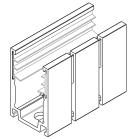
Please refer to the applicable installation ways.

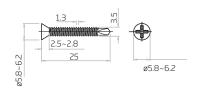
Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined

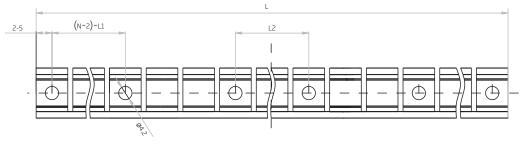
Dimension: mm



Tolerance: ± 0.3 mm







Note:

- $1.\,2\text{-}5\,refers\,to\,two\,of\,symmetric\,5mm\,in\,each\,piece\,of\,profile.$
- 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

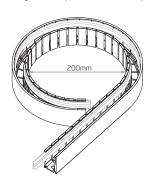
Item Code	Standard Length	L1	L2	Screw Hole	Hole Number
F10-BSA/PL-500MM-AL	500mm/19.68in	116.5mm/4.59in	23.3mm/0.92in	ø4.2mm/0.17in	6
F10-BSA/PL-1000MM-AL	1000mm/39.37in	116.5mm/4.59in	58.2mm/2.29in	ø4.2mm/0.17in	10

Installation Instructions

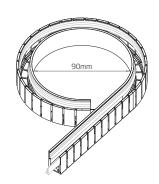
Friendly Reminder: please read instructions carefully before operation.

Bending Diameter

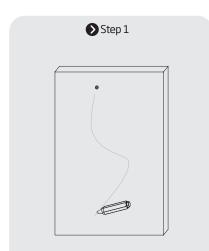
Min. Bending Diameter (Toothed Side inwards)



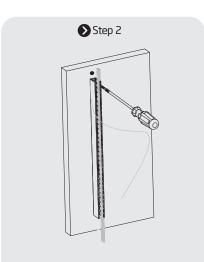
Min. Bending Diameter (Toothed Side outwards)



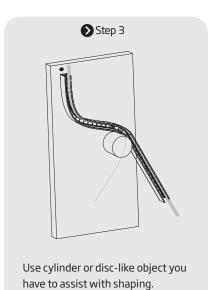
Installation

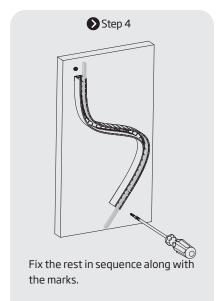


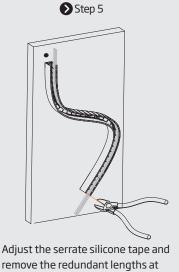
Mark the required shape on the mounting surface or print the sketch in the scale of 1:1 if complicated.



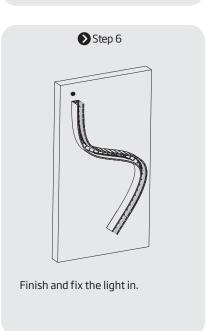
Get the front connector outside of profilel and keep at least 10mm more apart. Fix the screw starting from the power input end.







both ends.





Operating Instruction for Profiles

Profile Processing



- 1. It's not recommended to process the profile without any protection by finishing or coating, etc.
- 2. If any similar demands, please keep the profile clean after processing.
- 3. For the profile involved the serrated tape, please take its serrated tape out to avoid being deformed and useless affected by the high temperature generated, or discuss with the manufacturer to separate the package in advance.





Profile Cutting



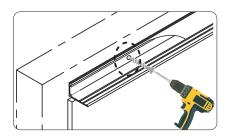
Make sure the crosssection of profile is smooth without any burrs when cutting, otherwise the light housing will be impaled and cause water ingression.





For the profiles involved serrated tape, in case of any drop of serrated tape after cutting, please insert and fix it to the profile by a few adhesive glues on its backside, 5~8mm diameter of touching area is enough. Make sure its round head on the edge is downward when putting back.

Profile Installation





Install the screw into position and ensure the screw head is in line with or lower than the base of aluminum profile.



Place the rubber expansion bolt to assist with the screw fixation if the mounting surface is rigid.



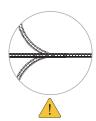
Make sure no debris in the profile before installation to avoid the light housing being impaled and cause water ingression.



Make sure no bulges on the slot to avoid the damage on the light and cause water ingression.



Do not use the profile deformed seriously.



It's recommended to mount in place at a time when using the bendable aluminum profile in case of any break due to the frequent repeated shaping.

Profile Jointing



1. Please reserve at least 5mm for profile jointing to enable enough space for contraction and expansion.



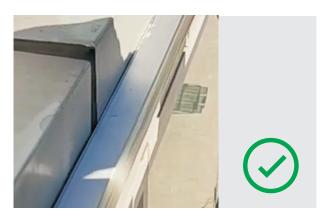
2. The profiles can be jointed to a right angle only if there are two pieces of lights connected to be a right angle.



3. For the curve shaping of light, make sure to leave enough space to separate profiles in between or use the bendable profile instead.

4. Splice Structure on Mounting Surface

In the case of an outdoor mounting surface with the splice structure, please make sure the mounting profile goes across the gap or separate the light and profile as per the splice structure.



When the profile jointing lies where the mounting surface splices, contraction and expansion of the mounting surface in the long term will cause the misalignment of profiles and lights, and lead to the damage of inside PCB.





Angular Misalignment



Parallel Vertical Misalignment



Parallel Horizontal Misalignment

Light Installation

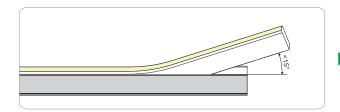
It's not recommended to install the light repeatedly, otherwise the light inside might be damaged.



Make sure the light is fitted in vertically.



Press the light into the profile by the palm instead of the finger, otherwise it might damage inside electronic components due to the overpressure caused.



Make sure the angle between the light and profile is not bigger than 15°, otherwise inside PCB might be damaged.

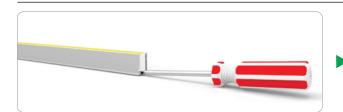


When light length > 2m, make sure somebody helps to lift the light, in case the heavy weight of light itself generates too small bending angle or twisting, which may damage inside PCR

Make sure the light body is not scratched during installation, otherwise the light housing will be impaled and cause water ingression.



Light Uninstallation



Prepare a screwdriver, and put the screwdriver at the bottom of light.



Move the screwdriver and unclench the light upwardly. Be careful the angle between the light and profile should not be bigger than 15°.



Once the end of light is out, hold both sides of light by hand and pull it out along the profile slowly and orderly.

Make sure the angle between the light and profile is not bigger than 15°, otherwise inside PCB might be damaged.



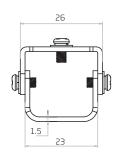
When light length > 2m, make sure somebody helps to lift the light, in case the heavy weight of light itself generates too small bending angle or twisting, which may damage inside PCB.



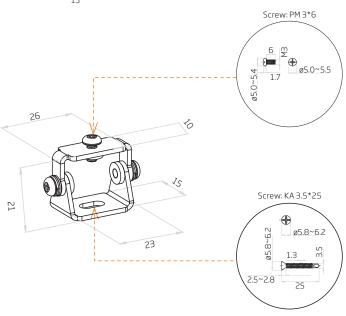
Pivot Mounting Bracket



Item Code: PM/B







Note: Applicable to all types of mounting profiles

Installation Instructions







Step 1:

Remove the upper screw from pivot mounting bracket.

Step 2:

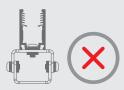
Fix pivot mounting bracket and mounting profile tightly by the screw.

Step 3:

Repeat step 1 & step 2 for the remaining brackets and secure at least 2 locking points for each mounting profile, and the equal interval is more recommended.

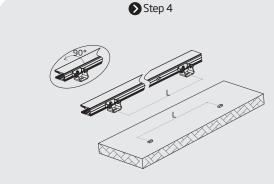




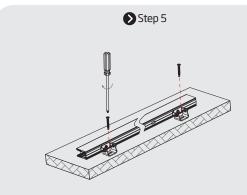


Warning:

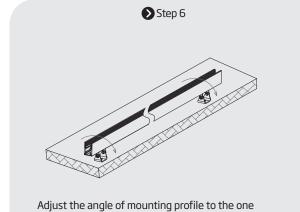
Keep pivot mounting bracket and mounting profile parallel from the side view.



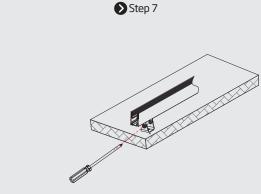
Rotate pivot mounting bracket till the showing up of the unfixed screw hole to facilitate the installation with mounting surface as per the pre-marked hole.



Fix pivot mounting bracket to mounting surface by KA3.5*25 screw.



required.



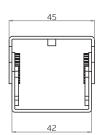
Tighten the side screws of pivot mounting bracket to avoid loosened locking point.

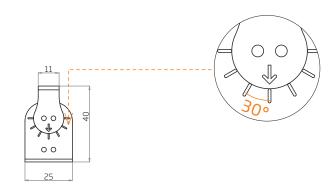


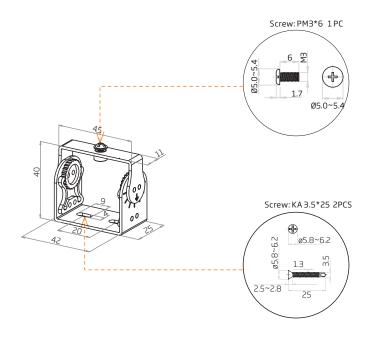
Rotary Locking Bracket



Item Code: RL/B





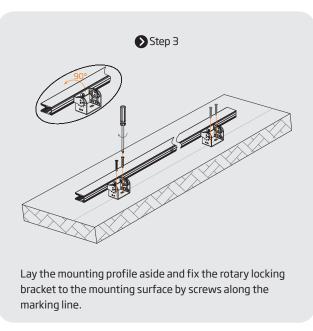


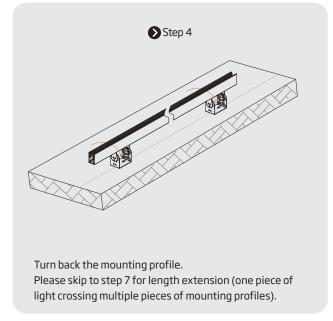
Note: Applicable to all types of mounting profiles

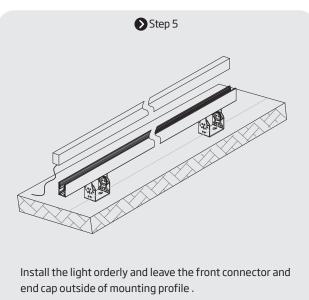
Installation Instructions

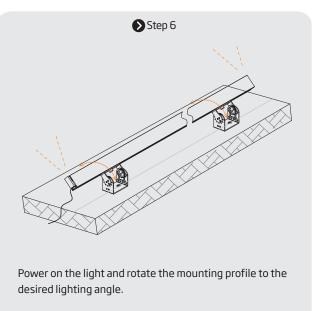




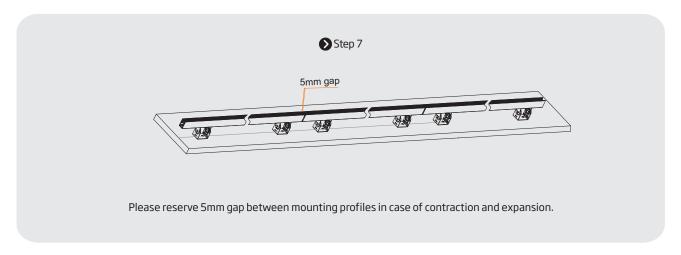


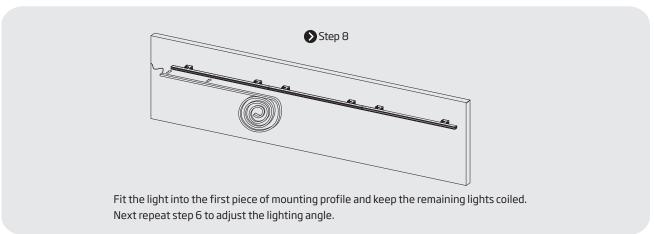


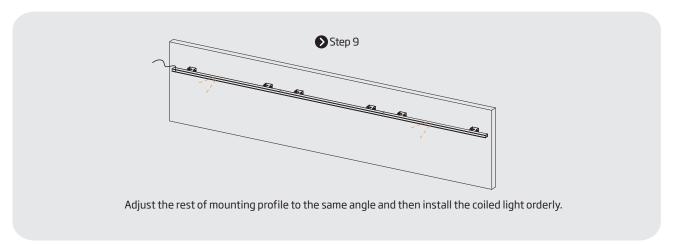


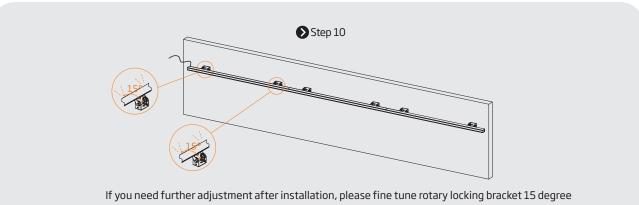


For length extension (one piece of light crossing multiple pieces of mounting profiles)









each time one by one in case of twisting on lights.

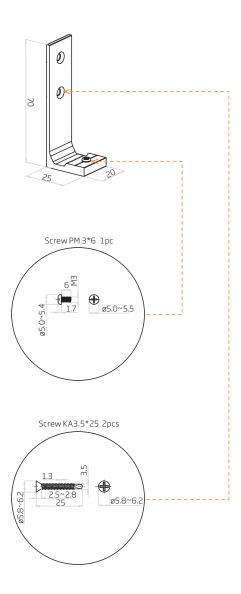




Side Mounting Bracket

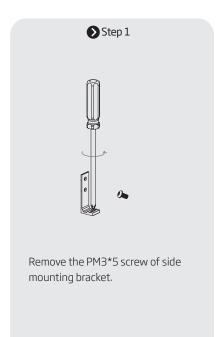


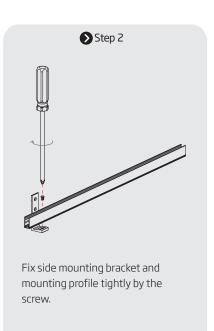
Item Code: SM/B

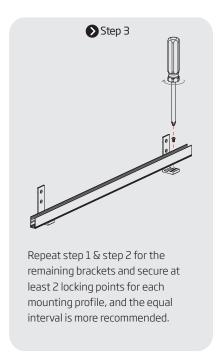


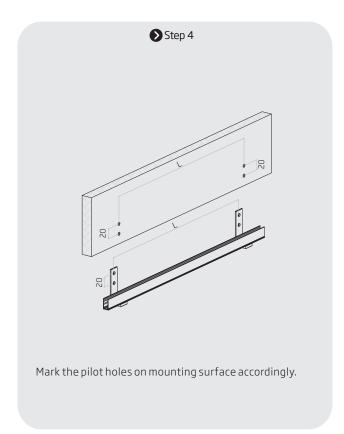
Note: Applicable to all types of mounting profiles

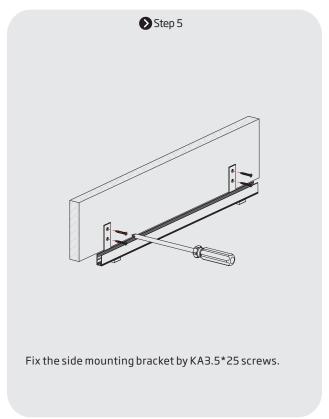
Installation Instructions







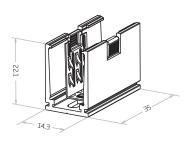




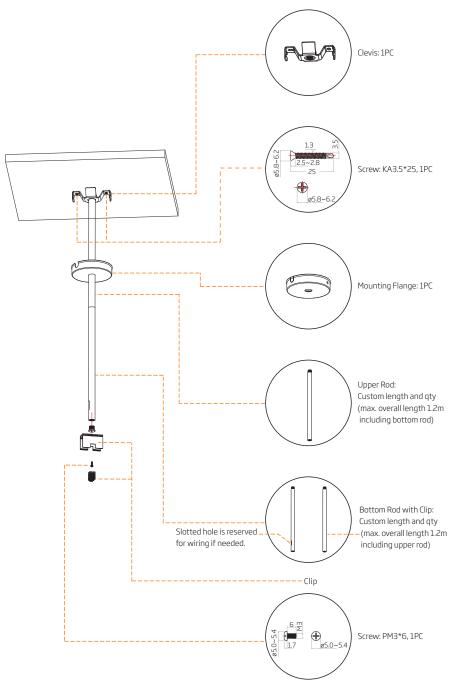
Suspended Mounting Clip





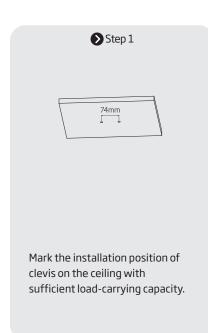


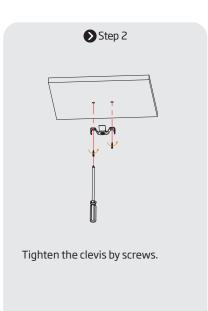
Item Code: SM/C

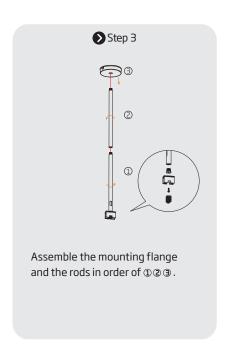


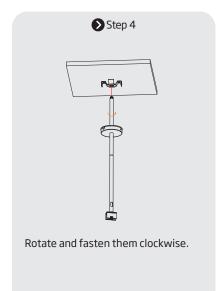
Installation Instructions

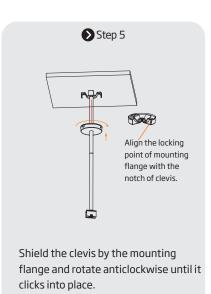
Suspended Mounting Rod without Wiring

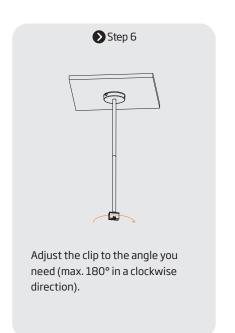




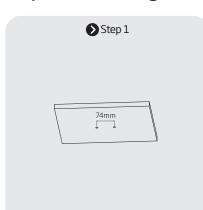








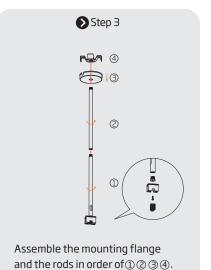
Suspended Mounting Rod with Surface Wiring

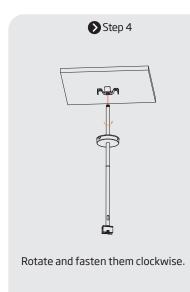


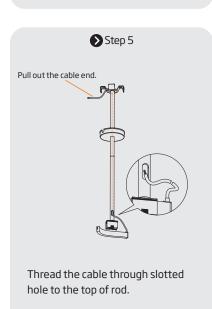
Mark the installation position of clevis on the ceiling with sufficient load-carrying capacity.

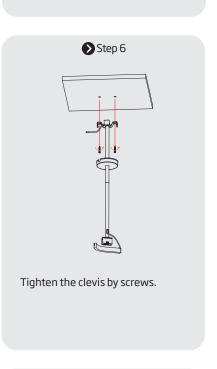


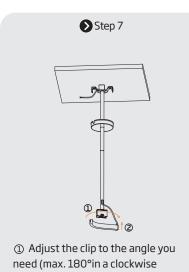
Cut a cable hole along with the pre-marked notch on the lateral side of mounting flange.



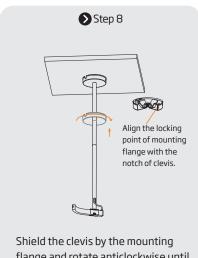


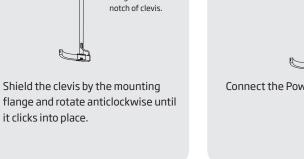


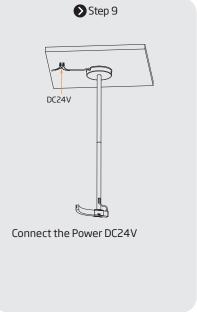




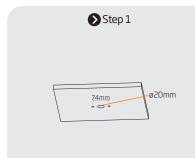
- direction).
- ② Install the light to the clip and adjust the cable length.







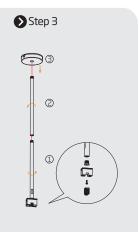
Suspended Mounting Rod with Concealed Wiring



Mark the installation position of clevis on the ceiling with sufficient load-carrying capacity, and in between punch a ø20mm cable hole.



Tighten the clevis by screws.



Assemble the mounting flange and the rods in order of (3).





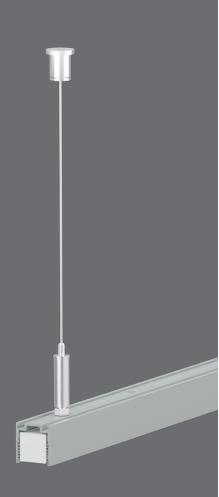
Shield the clevis by the mounting flange and rotate anticlockwise until it clicks into place.



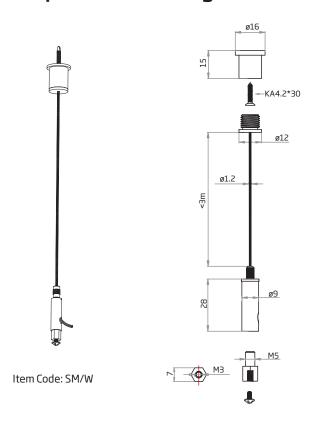
Adjust the clip to the angle you need (max. 180° in a clockwise direction).

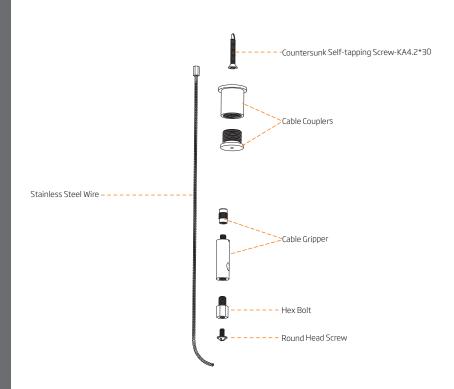






Suspended Mounting Wire





Note:

 $Applicable \ to \ serrated \ aluminum \ profile.$

2 sets of stainless steel wires are offered to pair with

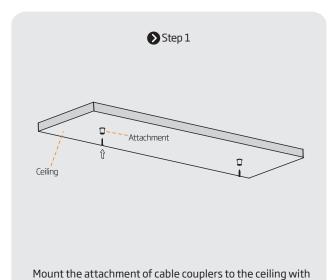
 $1\,piece\,of\,1m\,serrated\,aluminum\,profile.$

 ${\tt 3\,sets\,of\,stainless\,steel\,wires\,are\,offered\,to\,pair\,with}$

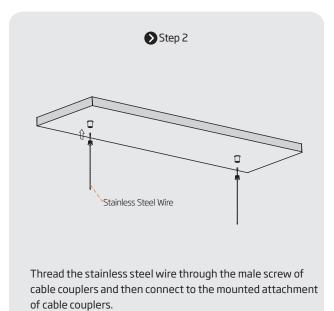
 $1\,piece\,of\,2m\,serrated\,aluminum\,profile.$

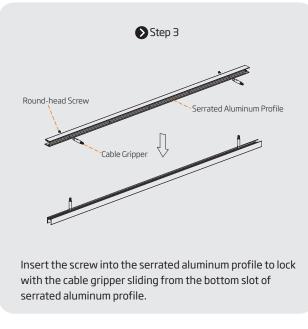
Installation Instructions

screws.



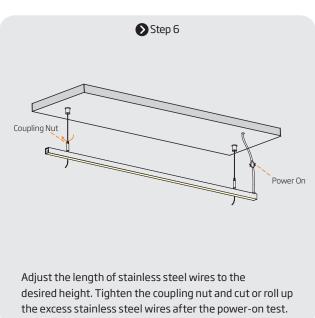
sufficient load-carrying capacity and tighten them with



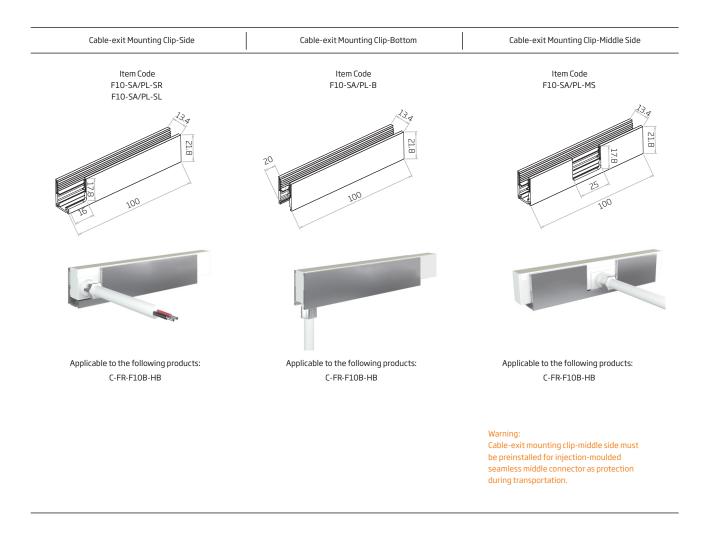








Cable-exit Mounting Clip



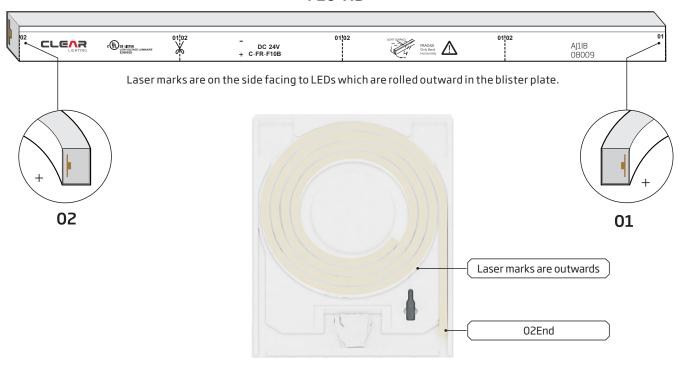
Note:

- 1. Applicable to single-layer injection-moulded connector with side, or bottom cable entry, whose size can be matched exactly.
 2. Allow the cable to exit from gap loosely without over-bending and protect the cable joint from the damage of excessively external force in the process of installation.
- ${\tt 3.10cm/piece, combined\ with\ other\ lengths\ of\ mounting\ profiles\ to\ fit\ the\ equivalent\ light\ length.}$



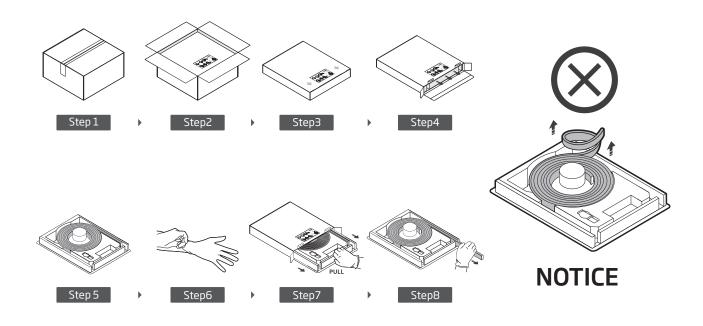
Standard Packaging:

F10-HB



Unpacking

White Box Packaging



Flexglo[™] F10 White Box Packaging





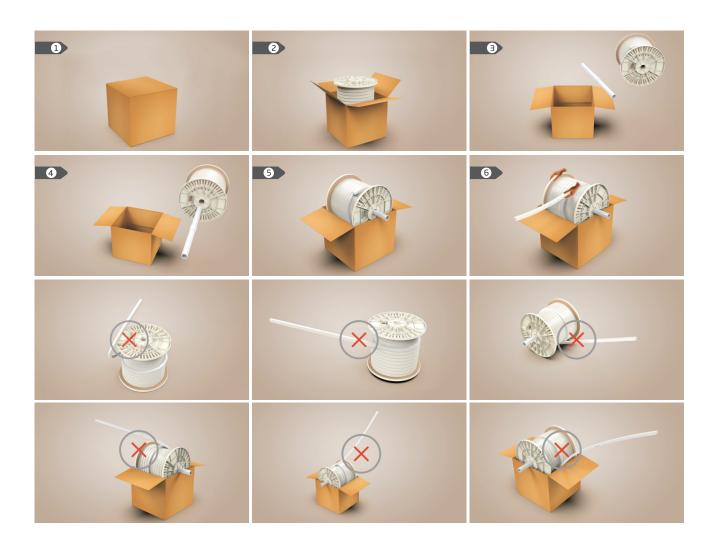




Cable Entry	Packing Length of PVC Product, L (m/box)	Packing Length of Silicone Product, L (m/box)	Inner Box Qty Per Carton (box/ctn)	Carton Dimension (cm)	G.W. of PVC Product (kg)	G.W. of Silicone Product (kg)
	5	3.2	5	47.5*36*22.5	8.98	6.90
	5	3.2	1	48.2*37.2*5.3	2.09	1.67
	5	3.2	2	47.5*36*10.5	3.63	2.80
	10	8.2	5	58.5*48*22.5	16.83	14.75
	10	8.2	2	58.5*48*10.5	7.41	6.58
	10	8.2	1	59.2*49.2*5.3	3.78	3.37
5 176:1 5 1	15	13.2	5	63.5*52*27.5	23.75	21.67
End / Side Feed	15	13.2	3	63.5*52*17.5	14.72	13.47
	15	13.2	1	64.2*53.2*6.3	5.16	4.74
	20	18.2	2	73.5*62.5*10.5	13.52	12.69
	20	18.2	1	74.2*63.7*5.3	6.92	6.50
	20	18.2	3	74.3*63.8*14.5	19.54	18.29
	30	28.2	2	80.5*69*12.5	18.96	18.13
	30	28.2	1	81.2*70.2*6.3	9.70	9.29
	5	3.2	5	51.5*40*27.5	9.83	7.76
5	5	3.2	2	51.5*40*12.5	4.30	3.47
	5	3.2	1	52.2*41.2*6.3	2.28	1.86
	5	3.2	1	48.2*37.2*5.3	2.09	1.67
	5	3.2	1	52.2*41.2*7.3	2.31	1.89
	5	3.2	5	51.5*40*32.5	10.07	7.99
Bottom Feed	10	8.2	1	59.2*49.2*5.3	3.78	3.37
	10	8.2	1	64.2*53.2*7.3	4.03	3.61
	10	8.2	3	63.5*52*20.5	11.45	10.20
	10	8.2	5	63.5*52*32.5	17.94	15.86
	20	18.2	1	74.2*63.7*5.3	6.92	6.50
	20	18.2	1	81.2*70.2*7.3	7.48	7.06
	20	18.2	2	80.5*69*14.5	14.60	13.77
	≤ 5	/	5	47.5*36*22.5	8.98	/
	≤ 5	/	1	48.2*37.2*5.3	2.09	/
	5 <l≤10< td=""><td>/</td><td>5</td><td>58.5*48*22.5</td><td>16.83</td><td>/</td></l≤10<>	/	5	58.5*48*22.5	16.83	/
MILE I	5 <l≤10< td=""><td>/</td><td>1</td><td>59.2*49.2*5.3</td><td>3.78</td><td>/</td></l≤10<>	/	1	59.2*49.2*5.3	3.78	/
Middle Feed	10 <l≤15< td=""><td>/</td><td>5</td><td>63.5*52*27.5</td><td>23.75</td><td>/</td></l≤15<>	/	5	63.5*52*27.5	23.75	/
	10 <l≤15< td=""><td>/</td><td>3</td><td>63.5*52*17.5</td><td>14.72</td><td>/</td></l≤15<>	/	3	63.5*52*17.5	14.72	/
	15 <l≤20< td=""><td>/</td><td>2</td><td>73.5*62.5*10.5</td><td>13.52</td><td>/</td></l≤20<>	/	2	73.5*62.5*10.5	13.52	/
	15 <l≤20< td=""><td>/</td><td>1</td><td>74.2*63.7*5.3</td><td>6.92</td><td>/</td></l≤20<>	/	1	74.2*63.7*5.3	6.92	/

Note: 1, Min. volume of package shall be offered based on the actual order. 2, Packing details are subject to change, and please refer to the final packing list of each order.

Unpacking Reel Packaging



Flexglo™ F10 Reel Packaging







Cable Entry	Packing Length of PVC Product (m/reel)	Reel Qty Per Carton (reel/ctn)	1	Carton Dimension (cm)		G.W. of PVC Product (kg)	
	20	1		34.0*34.0*12.0		5.06	
	30	1		36.0*36.0*12.0		7.37	
End / Side / Bottom Feed		1		34.0*34.0*24.0		12.32	
	50	1		37.0*37.0*26. 5		12.38	
	100	1		37.0*37.0*26. 5		23.93	

Note

- $1, \\ \text{Min. volume of the package shall be offered based on the actual order.}$
- $2, Packing\ details\ are\ subject\ to\ change, and\ please\ refer\ to\ the\ final\ packing\ list\ of\ each\ order.$

Flexglo[™] F10 Mounting Profile Packaging

Туре	Profile Length(mm)	Carton Dimension(cm)	Qty(pcs)	G.W.(kg)
	35	29.0*22.0*14.5	1120	6.60
Aluminum Profile	500	55.0*12.0*12.0	36	4.00
Aluminum Profile .	1000	104.0*26.5*13.2	80	13.80
	2000	206.0*19.0*12.0	45	15.50
	35	29.0*22.0*14.5	700	4.50
Flange	500	55.0*12.0*12.0	24	3.50
Aluminum Profile	1000	104.0*26.5*13.2	42	8.00
	2000	206.0*19.0*12.0	36	12.60
	20	29.0*22.0*14.5	1300	6.30
Serrated	500	55.0*12.0*12.0	32	5.50
Aluminum Profile	1000	104.0*26.5*13.2	72	16.80
	2000	206.0*19.0*12.0	42	20.00
	20	29.0*22.0*14. 5	780	4.20
Flange Serrated	500	55.0*12.0*12.0	16	2.40
Aluminum Profile	1000	104.0*26. 5*13. 2	44	10.80
	2000	206.0*19.0*12.0	28	13.80
Bendable Serrated	500	55.0*12.0*12.0	32	3.50
Aluminum Profile	1000	104.0*26. 5*13. 2	72	15.00