

SAUNA LED FLEX LINEAR LIGHT

Silicone

Ambient
Working
Temperature

Max.
110°C

Ambient
Relative
Humidity

Max.
100%

Lumen
Output

Max.
450
lm/m

* 3 years warranty for max. 95°C and 1 year warranty for max. 110°C.

Available Silicone Products	F22 F15 F21
IP Rating	IP67
Rated Power	≤6W/m
Applicable to	High temperature and humidity environments such as Dry Sauna, Wet Sauna, Steam Room, SPA, etc.





Steam Room



Sauna Room

★ Safe & Reliable

Adopt built-in constant current design to control temperature rise, no need extra protection shade against high temperature.

★ Versatile Installation

Indirect or direct lighting, horizontal or vertical bending.

★ Ready & Convenient for Installation

Factory-assembled connector, integrated to the light body by machine.

★ Standard or Bespoke Lengths

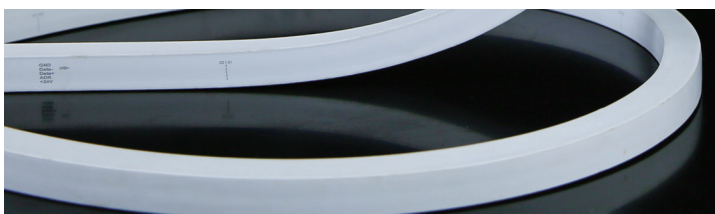
Max. 10m per piece and min. 55mm increment.

★ Ideal Lighting Continuity













Even spliced by multiple pieces of LED flex.







★ Much Lower User & Maintenance Cost







Compared with traditional sauna light fixtures prevailing in light efficiency, lifespan, and accommodation.



Monochrome





Item Code	Finished Product						LED	
	CCT	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F22B-VB-24CC-22K-OM-108-80-6 W-55.6	 2200K	2265±85K	<6SDCM	80	330lm	101lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-27K-OM-108-80-6 W-55.6	 2700K	2765±135K	<6SDCM	80	350lm	107lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-30K-OM-108-80-6 W-55.6	 3000K	3075±150K	<6SDCM	80	350lm	107lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-35K-OM-108-80-6 W-55.6	 3500K	3485±175K	<6SDCM	80	350lm	107lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-40K-OM-108-80-6 W-55.6	 4000K	3985±245K	<6SDCM	80	350lm	107lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-57K-OM-108-80-6 W-55.6	 5700K	5685±355K	<6SDCM	80	350lm	107lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-22K-OM-108-80-6 W-55.6	 2200K	2265±85K	<6SDCM	80	230lm	70lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-27K-OM-108-80-6 W-55.6	 2700K	2765±135K	<6SDCM	80	260lm	79lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-30K-OM-108-80-6 W-55.6	 3000K	3075±150K	<6SDCM	80	260lm	79lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-35K-OM-108-80-6 W-55.6	 3500K	3485±175K	<6SDCM	80	260lm	79lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-40K-OM-108-80-6 W-55.6	 4000K	3985±245K	<6SDCM	80	260lm	79lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-57K-OM-108-80-6 W-55.6	 5700K	5685±355K	<6SDCM	80	260lm	79lm	<2.3SDCM	82~87





Item Code	Finished Product							LED	
	CCT	CCT Tolerance	Color Tolerance	CRI	R9	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F15B-HB-24CC-22K-OM-72-80-6W-83.3	 2200K	2265±85K	<6SDCM	80		200lm	61lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-27K-OM-72-80-6W-83.3	 2700K	2765±135K	<6SDCM	80		210lm	64lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-30K-OM-72-80-6W-83.3	 3000K	3075±150K	<6SDCM	80		210lm	64lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-35K-OM-72-80-6W-83.3	 3500K	3485±175K	<6SDCM	80		210lm	64lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-40K-OM-72-80-6W-83.3	 4000K	3985±245K	<6SDCM	80		210lm	64lm	<2.3SDCM	82~87
C-SFR-F15B-HB-24CC-57K-OM-72-80-6W-83.3	 5700K	5685±355K	<6SDCM	80		210lm	64lm	<2.3SDCM	82~87

Item Code	Finished Product							LED	
	CCT	CCT Tolerance	Color Tolerance	CRI	R9	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F21B-HB-24CC-22K-OM-72-80-6W-83.3	 2200K	2265±85K	<6SDCM	80		230lm	70lm	<2.3SDCM	82~87
C-SFR-F21B-HB-24CC-27K-OM-72-80-6W-83.3	 2700K	2765±135K	<6SDCM	80		280lm	85lm	<2.3SDCM	82~87
C-SFR-F21B-HB-24CC-30K-OM-72-80-6W-83.3	 3000K	3075±150K	<6SDCM	80		280lm	85lm	<2.3SDCM	82~87
C-SFR-F21B-HB-24CC-35K-OM-72-80-6W-83.3	 3500K	3485±175K	<6SDCM	80		280lm	85lm	<2.3SDCM	82~87
C-SFR-F21B-HB-24CC-40K-OM-72-80-6W-83.3	 4000K	3985±245K	<6SDCM	80		280lm	85lm	<2.3SDCM	82~87
C-SFR-F21B-HB-24CC-57K-OM-72-80-6W-83.3	 5700K	5685±355K	<6SDCM	80		280lm	85lm	<2.3SDCM	82~87


Monochrome


Item code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F22B-VB-24CC-R-OM-108-6W-83.3	 Red	618-624nm	190lm	58lm	<3nm
C-SFR-F22B-VB-24CC-G-OM-108-6W-55.6	 Green	522-530nm	390lm	119lm	<3nm
C-SFR-F22B-VB-24CC-B-OM-108-6W-55.6	 Blue	468-474nm	75lm	23lm	<3nm
C-SFR-F22B-VB-24CC-A-OM-108-6W-83.3	 Amber	588-594nm	190lm	58lm	<3nm
C-SFR-F22B-HB-24CC-R-OM-108-6W-83.3	 Red	618-624nm	140lm	43lm	<3nm
C-SFR-F22B-HB-24CC-G-OM-108-6W-55.6	 Green	522-530nm	300lm	91lm	<3nm
C-SFR-F22B-HB-24CC-B-OM-108-6W-55.6	 Blue	468-474nm	55lm	17lm	<3nm
C-SFR-F22B-HB-24CC-A-OM-108-6W-83.3	 Amber	588-594nm	140lm	43lm	<3nm


Item code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F15B-HB-24CC-R-OM-72-6W-125	 Red	618-624nm	105lm	32lm	<3nm
C-SFR-F15B-HB-24CC-G-OM-72-6W-83.3	 Green	522-530nm	200lm	61lm	<3nm
C-SFR-F15B-HB-24CC-B-OM-72-6W-83.3	 Blue	468-474nm	40lm	12lm	<3nm
C-SFR-F15B-HB-24CC-A-OM-72-6W-125	 Amber	588-594nm	110lm	34lm	<3nm

Item code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F21B-HB-24CC-R-OM-72-6W-125	 Red	618-624nm	130lm	40lm	<3nm
C-SFR-F21B-HB-24CC-G-OM-72-6W-83.3	 Green	522-530nm	280lm	85lm	<3nm
C-SFR-F21B-HB-24CC-B-OM-72-6W-83.3	 Blue	468-474nm	55lm	17lm	<3nm
C-SFR-F21B-HB-24CC-A-OM-72-6W-125	 Amber	588-594nm	150lm	46lm	<3nm

Dynamic White

Item code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F22D-VB-24CC-2200-5700K-OM-144-6W-83.3	 2200K~5700K	2238±66K	110lm	34lm	N/A
C-SFR-F22D-HB-24CC-2200-5700K-OM-144-6W-83.3		5669±305K	135lm	41lm	N/A

Item code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F15D-HB-24CC-2200-5700K-OM-144-6W-83.3	 2200K~5700K	2238±66K	70lm	21lm	<3nm
		5669±305K	85lm	26lm	<3nm

Item code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F21D-HB-24CC-2200-5700K-OM-144-6W-83.3	 2200K~5700K	2238±66K	85lm	26lm	<3nm
		5669±305K	105lm	32lm	<3nm

Item code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F22A-VB-24CV-RGB-OM-252-4.5W-125	Red	618-624nm	35lm	11lm	<3nm
	Green	522-530nm	100lm	30lm	<3nm
	Blue	458-464nm	15lm	5lm	<3nm
	R+G+B	R+G+B	150lm	46lm	/
C-SFR-F22A-HB-24CV-RGB-OM-252-4.5W-125	Red	618-624nm	25lm	8lm	<3nm
	Green	522-530nm	90lm	27lm	<3nm
	Blue	458-464nm	12lm	4lm	<3nm
	R+G+B	R+G+B	127lm	39lm	/

Item code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F15A-HB-24CV-RGB-OM-180-3.6W-100	Red	618-624nm	15lm	5lm	<3nm
	Green	522-530nm	35lm	11lm	<3nm
	Blue	458-464nm	7lm	2lm	<3nm
	R+G+B	R+G+B	47lm	14lm	<2.3SDCM

Item code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F21A-HB-24CV-RGB-OM-180-3.6W-100	Red	618-624nm	15lm	5lm	<3nm
	Green	522-530nm	45lm	14lm	<3nm
	Blue	458-464nm	10lm	3lm	<3nm
	R+G+B	R+G+B	70lm	21lm	<2.3SDCM

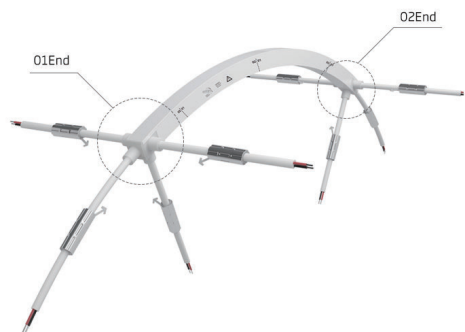
Item code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F22E-VB-24CV-RGBW(22K)-OM-336-6W-83.3	Red	618-624nm	35lm	11lm	<3nm
	Green	522-530nm	100lm	30lm	<3nm
	Blue	458-464nm	15lm	5lm	<3nm
	2200K	2238±102K	65lm	20lm	<2.3SDCM
C-SFR-F22E-VB-24CV-RGBW(27K)-OM-336-6W-83.3	Red	618-624nm	35lm	11lm	<3nm
	Green	522-530nm	100lm	30lm	<3nm
	Blue	458-464nm	15lm	5lm	<3nm
	2700K	2725±145K	65lm	20lm	<2.3SDCM
C-SFR-F22E-VB-24CV-RGBW(30K)-OM-336-6W-83.3	Red	618-624nm	35lm	11lm	<3nm
	Green	522-530nm	100lm	30lm	<3nm
	Blue	458-464nm	15lm	5lm	<3nm
	3000K	3045±175K	65lm	20lm	<2.3SDCM
C-SFR-F22E-VB-24CV-RGBW(35K)-OM-336-6W-83.3	Red	618-624nm	35lm	11lm	<3nm
	Green	522-530nm	100lm	30lm	<3nm
	Blue	458-464nm	15lm	5lm	<3nm
	3500K	3465±245K	65lm	20lm	<2.3SDCM
C-SFR-F22E-VB-24CV-RGBW(40K)-OM-336-6W-83.3	Red	618-624nm	35lm	11lm	<3nm
	Green	522-530nm	100lm	30lm	<3nm
	Blue	458-464nm	15lm	5lm	<3nm
	4000K	3985±275K	65lm	20lm	<2.3SDCM
C-SFR-F22E-HB-24CV-RGBW(22K)-OM-336-6W-83.3	Red	618-624nm	25lm	8lm	<3nm
	Green	522-530nm	90lm	27lm	<3nm
	Blue	458-464nm	12lm	4lm	<3nm
	2200K	2238±102K	50lm	15lm	<2.3SDCM
C-SFR-F22E-HB-24CV-RGBW(27K)-OM-336-6W-83.3	Red	618-624nm	25lm	8lm	<3nm
	Green	522-530nm	90lm	27lm	<3nm
	Blue	458-464nm	12lm	4lm	<3nm
	2700K	2725±145K	50lm	15lm	<2.3SDCM
C-SFR-F22E-HB-24CV-RGBW(30K)-OM-336-6W-83.3	Red	618-624nm	25lm	8lm	<3nm
	Green	522-530nm	90lm	27lm	<3nm
	Blue	458-464nm	12lm	4lm	<3nm
	3000K	3045±175K	50lm	15lm	<2.3SDCM
C-SFR-F22E-HB-24CV-RGBW(35K)-OM-336-6W-83.3	Red	618-624nm	25lm	8lm	<3nm
	Green	522-530nm	90lm	27lm	<3nm
	Blue	458-464nm	12lm	4lm	<3nm
	3500K	3465±245K	50lm	15lm	<2.3SDCM
C-SFR-F22E-HB-24CV-RGBW(40K)-OM-336-6W-83.3	Red	618-624nm	25lm	8lm	<3nm
	Green	522-530nm	90lm	27lm	<3nm
	Blue	458-464nm	12lm	4lm	<3nm
	4000K	3985±275K	50lm	15lm	<2.3SDCM

Item code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F15E-HB-24CV-RGBW(27K)-OM-240-5W-100	Red	618-624nm	15lm	5lm	N/A
	Green	522-530nm	35lm	11lm	N/A
	Blue	458-464nm	7lm	2lm	N/A
	2700K	2725±145K	40lm	12lm	N/A
C-SFR-F15E-HB-24CV-RGBW(30K)-OM-240-5W-100	Red	618-624nm	15lm	5lm	N/A
	Green	522-530nm	35lm	11lm	N/A
	Blue	458-464nm	7lm	2lm	N/A
	3000K	3045±175K	40lm	12lm	N/A
C-SFR-F15E-HB-24CV-RGBW(40K)-OM-240-5W-100	Red	618-624nm	15lm	5lm	N/A
	Green	522-530nm	35lm	11lm	N/A
	Blue	458-464nm	7lm	2lm	N/A
	4000K	3985±275K	40lm	12lm	N/A

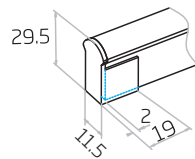
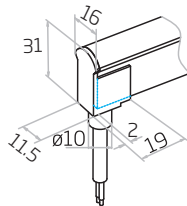
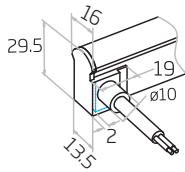
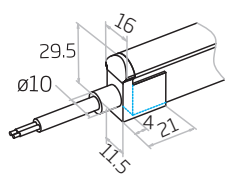
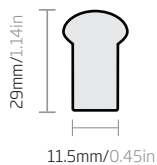
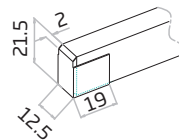
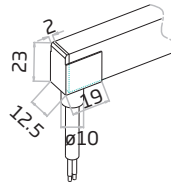
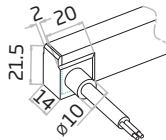
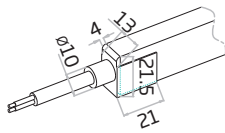
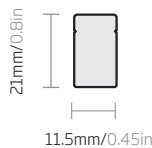
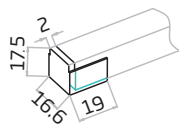
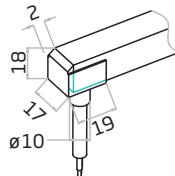
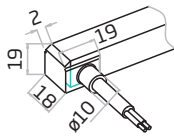
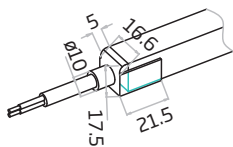
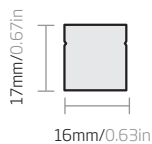
Item code	Finished Product				LED
	Color	Wavelength	Lumen/m	Lumen/ft	Color Tolerance
C-SFR-F21E-HB-24CV-RGBW(27K)-OM-240-5W-100	Red	618-624nm	15lm	5lm	<3nm
	Green	522-530nm	45lm	14lm	<3nm
	Blue	458-464nm	10lm	3lm	<3nm
	2700K	2725±145K	45lm	14lm	N/A
C-SFR-F21E-HB-24CV-RGBW(30K)-OM-240-5W-100	Red	618-624nm	15lm	5lm	<3nm
	Green	522-530nm	45lm	14lm	<3nm
	Blue	458-464nm	10lm	3lm	<3nm
	3000K	3045±175K	45lm	14lm	N/A
C-SFR-F21E-HB-24CV-RGBW(40K)-OM-240-5W-100	Red	618-624nm	15lm	5lm	<3nm
	Green	522-530nm	45lm	14lm	<3nm
	Blue	458-464nm	10lm	3lm	<3nm
	4000K	3985±275K	45lm	14lm	N/A

Silicone Injection-moulded Connector (mm)

Vertical Bending


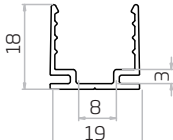
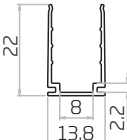
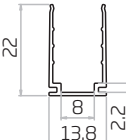
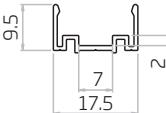


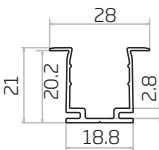
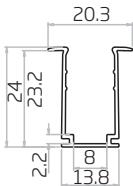
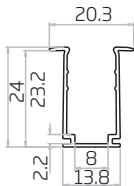





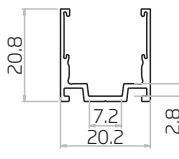
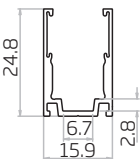



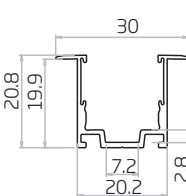
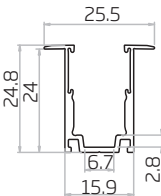






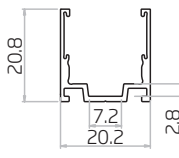
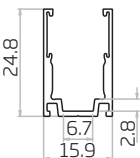
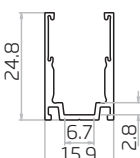






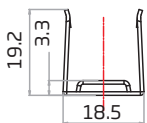
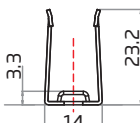
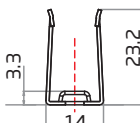


Horizontal Bending



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.

Mounting Profile

Type	<div><div></div><div>17mm/0.67in</div><div>16mm/0.63in</div></div>	<div><div></div><div>21mm/0.8in</div><div>11.5mm/0.45in</div></div>	<div><div></div><div>29mm/1.14in</div><div>11.5mm/0.45in</div></div>	<div><div></div><div>6mm/0.24in</div><div>15.5mm/0.61in</div></div>	
Aluminum Profile	<div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div></div>	Available Length: 35mm 500mm 1000mm 2000mm			
Flange Aluminum Profile	<div><div></div><div></div></div> <div><div></div><div></div><div></div></div>	Available Length: 35mm 500mm 1000mm 2000mm			
Serrated Aluminum Profile	<div><div></div><div></div></div> <div><div></div><div></div><div></div></div>	Available Length: 20mm 500mm 1000mm 2000mm			
Flange Serrated Aluminum Profile	<div><div></div><div></div></div> <div><div></div><div></div><div></div></div>	Available Length: 20mm 500mm 1000mm 2000mm			
Bendable Serrated Aluminum Profile	<div><div></div><div></div></div> <div><div></div><div></div><div></div></div>	Available Length: 500mm 1000mm			
Stainless Steel Profile	<div><div></div><div></div></div> <div><div></div><div></div><div></div></div>	Available Length: 35mm			

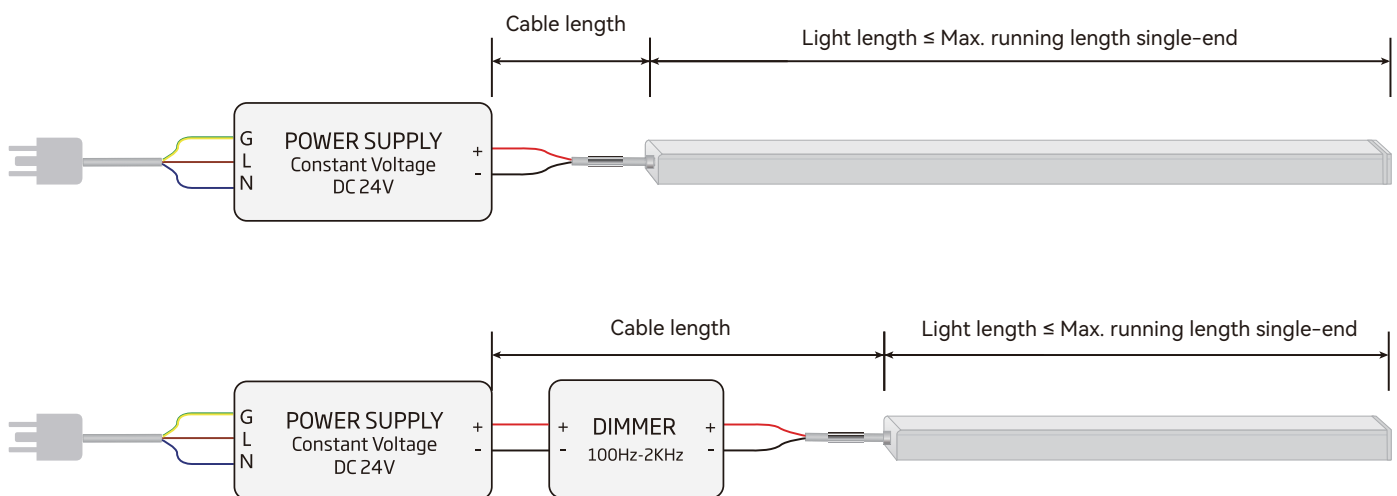
Note:
1. Unless otherwise stated, the tolerance of the mounting profile is $\pm 0.2\text{mm}$;
2. It's not recommended to install the light repeatedly, otherwise the light inside might be damaged.

ThermaGlo™ F22B Wiring Diagram

1. 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;
2. 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.



Single-end Feed



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. Cable Length (Silicone)

Input: DC24V

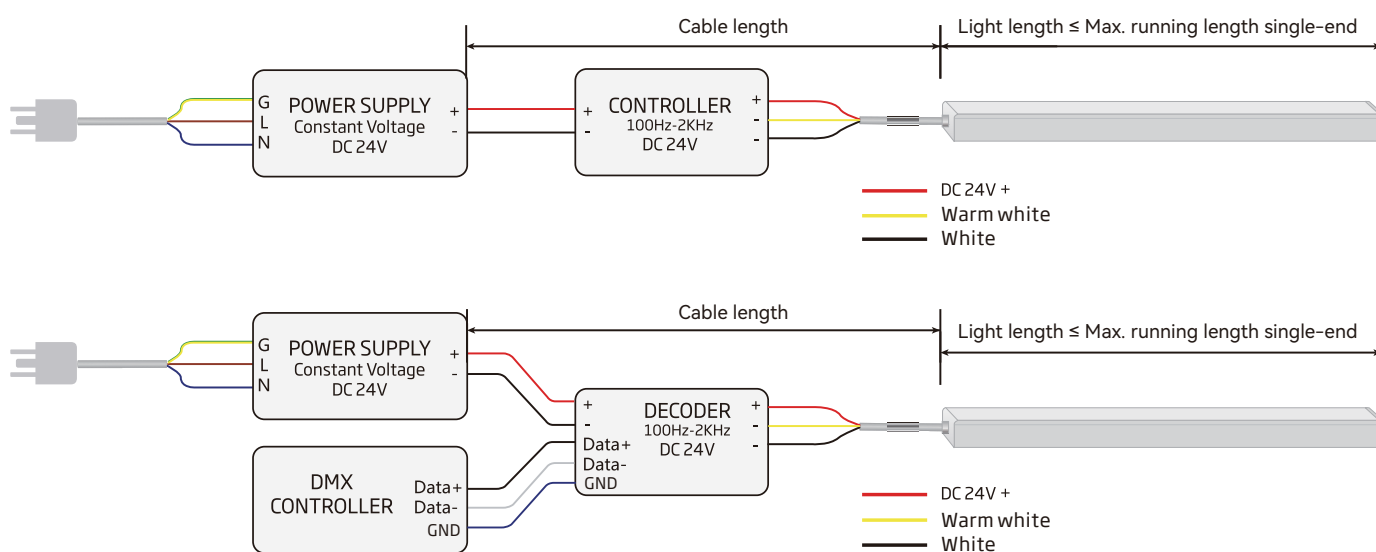
C-SFR-F22B-CC										
Light Length (m)	0.32mm ² 22AWG		0.52mm ² 20AWG		0.81mm ² 18AWG		1.32mm ² 16AWG		2.07mm ² 14AWG	
	m	ft	m	ft	m	ft	m	ft	m	ft
1	76.11	249.70	123.68	405.77	192.65	632.06	313.95	1030.03	492.34	1615.28
2	42.28	138.72	61.84	202.88	96.33	316.03	156.98	515.02	246.17	807.64
3	27.77	91.10	40.61	133.24	63.26	207.54	103.09	338.22	161.66	530.39
4	20.67	67.82	30.23	99.19	47.09	154.50	76.74	251.79	120.35	394.85
5	16.61	54.50	24.29	79.70	37.84	124.16	61.67	202.33	96.71	317.29
6	13.88	45.55	20.31	66.62	31.63	103.77	51.54	169.11	80.83	265.19
7	11.93	39.13	17.44	57.22	27.17	89.14	44.28	145.26	69.43	227.80
8	10.39	34.10	15.20	49.87	23.68	77.68	38.59	126.60	60.51	198.53
9	9.26	30.37	13.54	44.41	21.09	69.18	34.36	112.74	53.89	176.80
10	8.34	27.37	12.20	40.03	19.01	62.36	30.97	101.62	48.57	159.35

ThermaGlo™ F22D Wiring Diagram

1. 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;
2. A compatible controller is required to achieve various light changing effects;
3. The rated power of controller/decoder shall be higher than the actual power consumption of light; its frequency range shall be 100~2000Hz, and 500Hz is recommended;
4. 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;
5. Types of standard plugs are optional if power cord is purchased from CLEAR.



Single-end Feed



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".
3. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

Max. Cable Length (Silicone)

Input: DC24V

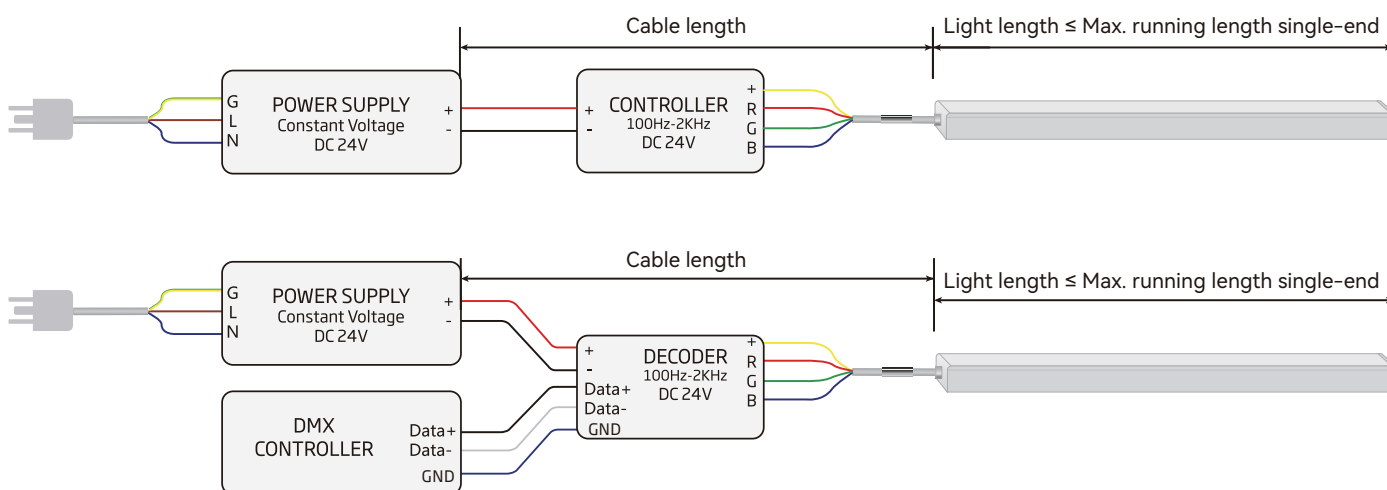
C-SFR-F22D-CC										
Light Length (m)	0.32mm ² 22AWG		0.52mm ² 20AWG		0.81mm ² 18AWG		1.32mm ² 16AWG		2.07mm ² 14AWG	
	m	ft	m	ft	m	ft	m	ft	m	ft
1	110.51	362.57	179.58	589.18	279.73	917.76	455.86	1495.61	714.87	2345.38
2	55.81	183.12	90.70	297.56	141.28	463.51	230.23	755.36	361.05	1184.54
3	39.48	129.53	64.16	210.49	99.94	327.88	162.86	534.32	255.39	837.90
4	28.20	92.52	45.83	150.35	71.38	234.20	116.33	381.65	182.42	598.50
5	24.53	80.47	39.86	130.76	62.08	203.69	101.17	331.93	158.66	520.53
6	18.87	61.90	30.66	100.59	47.76	156.68	77.83	255.33	122.04	400.41
7	16.22	53.20	26.35	86.45	41.05	134.66	66.89	219.45	104.89	344.14
8	13.51	44.33	21.96	72.04	34.20	112.22	55.74	182.88	87.41	286.78
9	11.45	37.55	18.60	61.03	28.97	95.06	47.22	154.91	74.05	242.93
10	10.41	34.14	16.91	55.48	26.34	86.42	42.92	140.83	67.31	220.85

ThermaGlo™ F22A Wiring Diagram

1. 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;
2. A compatible controller is required to achieve various light changing effects;
3. The rated power of controller/decoder shall be higher than the actual power consumption of light; its frequency range shall be 100~2000Hz, and 500Hz is recommended;
4. 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;
5. Types of standard plugs are optional if power cord is purchased from CLEAR.



Single-end Feed



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 and Signal Transmission Attenuation

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".
3. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

Max. Cable Length

Input: DC24V

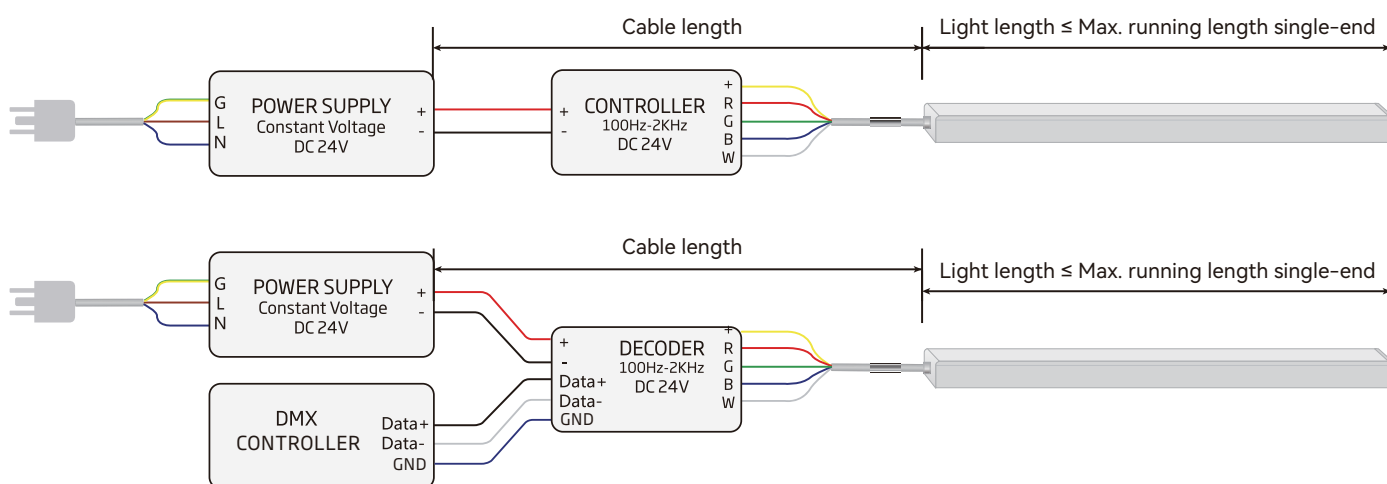
C-SFR-F22A-CV										
Light Length (m)	0.32mm ² 22AWG		0.52mm ² 20AWG		0.81mm ² 18AWG		1.32mm ² 16AWG		2.07mm ² 14AWG	
	m	ft	m	ft	m	ft	m	ft	m	ft
1	125.58	412.01	204.07	669.52	317.88	1042.91	518.02	1699.55	812.35	2665.21
2	62.79	206.01	102.03	334.76	158.94	521.45	259.01	849.78	406.18	1332.60
3	44.42	145.72	72.18	236.80	112.43	368.86	183.22	601.10	287.32	942.64
4	31.73	104.09	51.55	169.14	80.31	263.47	130.87	429.36	205.23	673.32
5	25.47	83.56	41.39	135.79	64.47	211.52	105.06	344.70	164.76	540.55
6	21.23	69.64	34.49	113.16	53.73	176.27	87.55	287.25	137.30	450.46
7	18.24	59.85	29.64	97.26	46.18	151.50	75.25	246.88	118.01	387.16
8	15.20	49.88	24.70	81.05	38.48	126.25	62.71	205.74	98.34	322.63
9	13.46	44.17	21.88	71.77	34.08	111.80	55.53	182.20	87.09	285.72
10	11.71	38.41	19.02	62.41	29.63	97.22	48.29	158.43	75.73	248.45

ThermaGlo™ F22E Wiring Diagram

1. 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;
2. A compatible controller is required to achieve various light changing effects;
3. The rated power of controller/decoder shall be higher than the actual power consumption of light; its frequency range shall be 100~2000Hz, and 500Hz is recommended;
4. Full loading in RGBW is not recommended to avoid the overheating of light.
5. 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;
6. Types of standard plugs are optional if power cord is purchased from CLEAR.



Single-end Feed



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 and Signal Transmission Attenuation

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".
3. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

Max. Cable Length

Input: DC24V

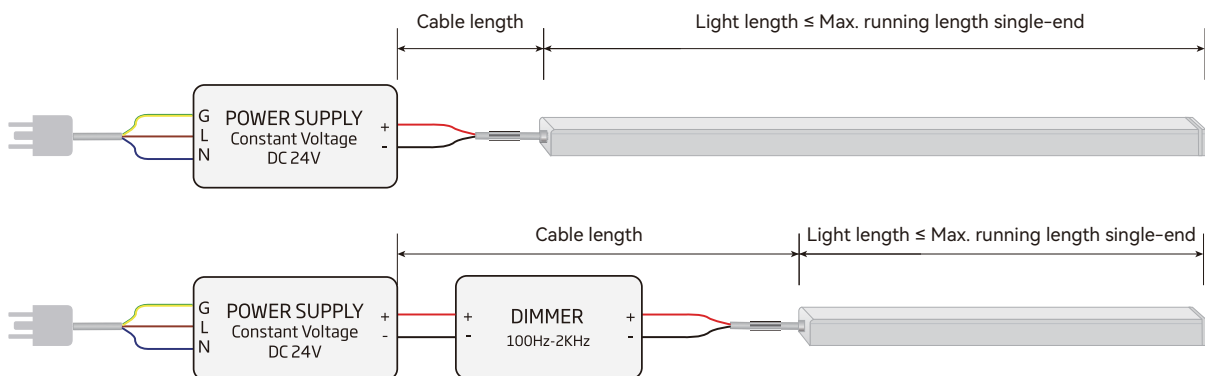
C-SFR-F22E-CV										
Light Length (m)	0.32mm ² 22AWG		0.52mm ² 20AWG		0.81mm ² 18AWG		1.32mm ² 16AWG		2.07mm ² 14AWG	
	m	ft	m	ft	m	ft	m	ft	m	ft
1	94.53	310.13	153.61	503.96	239.27	785.01	389.92	1279.28	611.47	2006.14
2	47.98	157.43	77.97	255.82	121.46	398.48	197.93	649.38	310.39	1018.35
3	32.15	105.48	52.24	171.40	81.38	266.98	132.61	435.09	207.96	682.29
4	23.81	78.13	38.70	126.96	60.28	197.77	98.23	322.29	154.05	505.40
5	19.22	63.05	31.23	102.46	48.64	159.60	79.27	260.08	124.31	407.86
6	15.25	50.04	24.78	81.31	38.61	126.66	62.92	206.41	98.66	323.69
7	13.24	43.45	21.52	70.61	33.53	109.99	54.63	179.25	85.68	281.09
8	11.04	36.21	17.94	58.84	27.94	91.66	45.53	149.37	71.40	234.25
9			15.24	49.99	23.73	77.87	38.68	126.90	60.66	199.00
10			13.85	45.45	21.58	70.79	35.16	115.36	55.14	180.91

ThermaGlo™ F15B Wiring Diagram

1. 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;
2. 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.



Single-end Feed



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 inter-connection are inclusive.

How to Minimize Voltage Drop

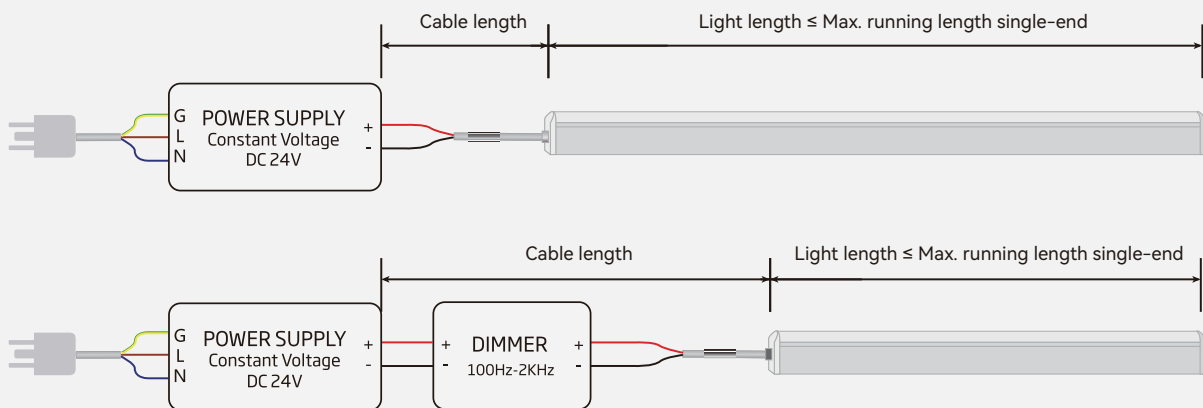
1. Please ensure the cable length is not more than the table "Max. Cable Length" according to light length and its wire gauge.
2. Please ensure the light length is less than the cable "Max. Running Length Single-end Feed".

ThermaGlo™ F21B Wiring Diagram

1. 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;
2. 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.



Single-end Feed



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. Cable Length

Input: DC24V

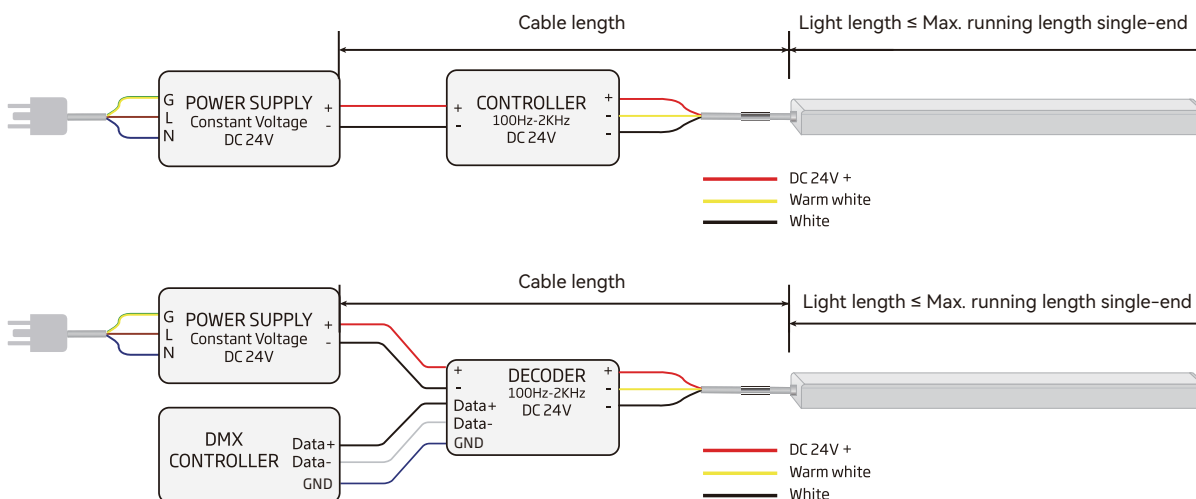
C-SFR-F15B\F21B										
Light Length (m)	0.32mm ² 22AWG		0.52mm ² 20AWG		0.81mm ² 18AWG		1.32mm ² 16AWG		2.07mm ² 14AWG	
	m	ft	m	ft	m	ft	m	ft	m	ft
1	76.11	249.70	123.68	405.77	192.65	632.06	313.95	1030.03	492.34	1615.28
2	38.05	124.85	61.84	202.88	96.33	316.03	156.98	515.02	246.17	807.64
3	24.99	81.99	40.61	133.24	63.26	207.54	103.09	338.22	161.66	530.39
4	18.60	61.04	30.23	99.19	47.09	154.50	76.74	251.79	120.35	394.85
5	14.95	49.05	24.29	79.70	37.84	124.16	61.67	202.33	96.71	317.29
6	12.50	41.00	20.31	66.62	31.63	103.77	51.54	169.11	80.83	265.19
7	10.73	35.21	17.44	57.22	27.17	89.14	44.28	145.26	69.43	227.80
8	9.35	30.69	15.20	49.87	23.68	77.68	38.59	126.60	60.51	198.53
9	8.33	27.33	13.54	44.41	21.09	69.18	34.36	112.74	53.89	176.80
10	7.51	24.63	12.20	40.03	19.01	62.36	30.97	101.62	48.57	159.35

ThermaGlo™ F15D Wiring Diagram

1. 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;
2. A compatible controller is required to achieve various light changing effects;
3. The rated power of controller/decoder shall be higher than the actual power consumption of light; its frequency range shall be 100~2000Hz, and 500Hz is recommended;
4. 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;
5. Types of standard plugs are optional if power cord is purchased from CLEAR.



Single-end Feed



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 inter-connection are inclusive.

How to Minimize Voltage Drop and Signal Transmission Attenuation

Ways to minimize voltage drop and signal transmission attenuation,

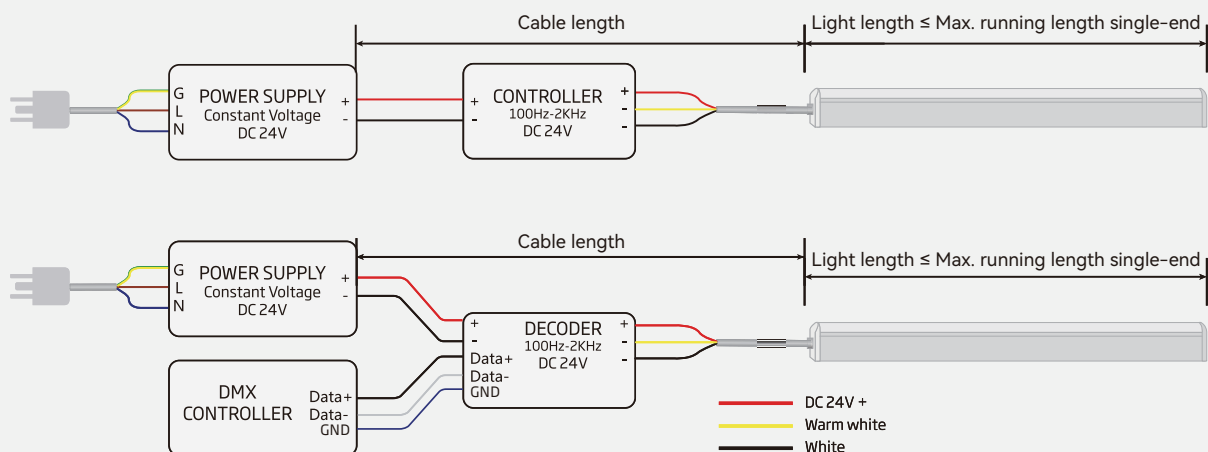
1. Please ensure the cable length is not more than the table "Max. Cable Length" according to light length and its wire gauge.
2. Please ensure the light length is less than the cable "Max. Running Length Single-end Feed".
3. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

ThermGlo™ F21D Wiring Diagram

1. 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;
2. A compatible controller is required to achieve various light changing effects;
3. The rated power of controller/decoder shall be higher than the actual power consumption of light; its frequency range shall be 100~2000Hz, and 500Hz is recommended;
4. 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;
5. Types of standard plugs are optional if power cord is purchased from CLEAR.



Single-end Feed



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 inter-connection are inclusive.

How to Minimize Voltage Drop and Signal Transmission Attenuation

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".
3. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

Max. Cable Length

Input: DC24V

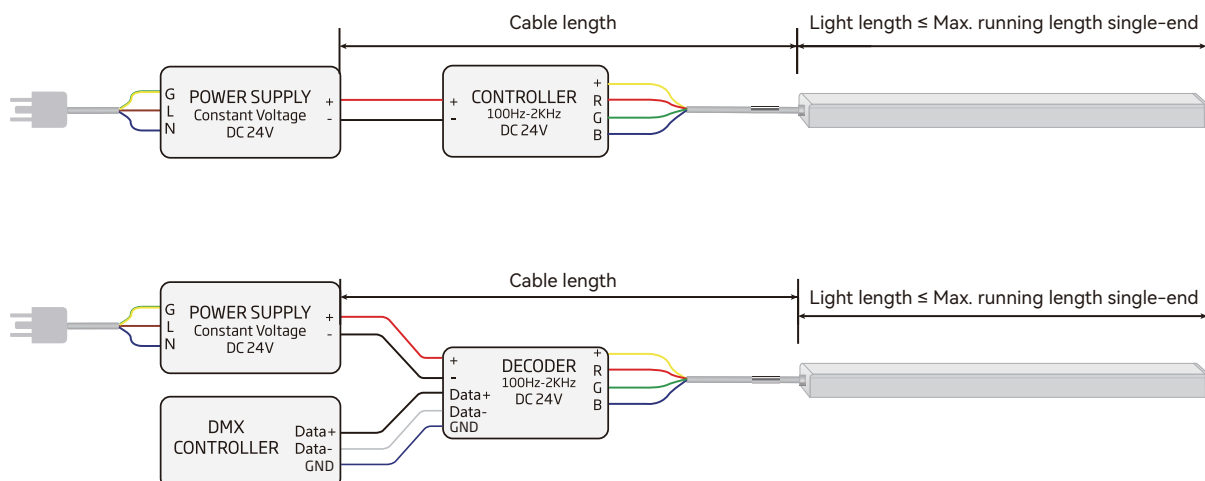
C-SFR-F15D\F21D										
Light Length (m)	0.32mm ² 22AWG		0.52mm ² 20AWG		0.81mm ² 18AWG		1.32mm ² 16AWG		2.07mm ² 14AWG	
	m	ft	m	ft	m	ft	m	ft	m	ft
1	111.63	366.23	181.40	595.13	282.56	927.03	460.47	1510.71	722.09	2369.07
2	55.81	183.12	90.70	297.56	141.28	463.51	230.23	755.36	361.05	1184.54
3	37.22	122.13	60.49	198.46	94.23	309.14	153.55	503.78	240.80	790.02
4	28.20	92.52	45.83	150.35	71.38	234.20	116.33	381.65	182.42	598.50
5	22.64	74.28	36.79	120.70	57.31	188.02	93.39	306.40	146.45	480.49
6	18.87	61.90	30.66	100.59	47.76	156.68	77.83	255.33	122.04	400.41
7	15.40	50.54	25.03	82.13	38.99	127.93	63.54	208.48	99.65	326.93
8	13.51	44.33	21.96	72.04	34.20	112.22	55.74	182.88	87.41	286.78
9	11.45	37.55	18.60	61.03	28.97	95.06	47.22	154.91	74.05	242.93
10	10.41	34.14	16.91	55.48	26.34	86.42	42.92	140.83	67.31	220.85

ThermaGlo™ F15A Wiring Diagram

1. 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;
2. A compatible controller is required to achieve various light changing effects;
3. The rated power of controller/decoder shall be higher than the actual power consumption of light; its frequency range shall be 100~2000Hz, and 500Hz is recommended;
4. 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;
5. Types of standard plugs are optional if power cord is purchased from CLEAR.



Single-end Feed



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 inter-connection are inclusive.

How to Minimize Voltage Drop and Signal Transmission Attenuation

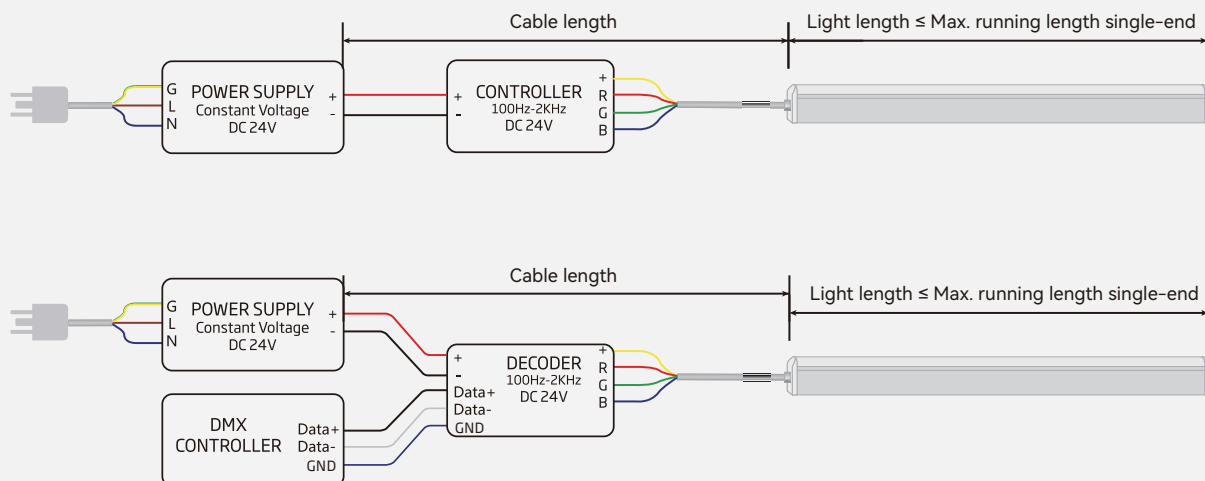
1. Please ensure the cable length is not more than the table "Max. Cable Length" according to light length and its wire gauge.
2. Please ensure the light length is less than the cable "Max. Running Length Single-end Feed".
3. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

ThermaGlo™ F21A Wiring Diagram

1. 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;
2. A compatible controller is required to achieve various light changing effects;
3. The rated power of controller/decoder shall be higher than the actual power consumption of light; its frequency range shall be 100~2000Hz, and 500Hz is recommended;
4. 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;
5. Types of standard plugs are optional if power cord is purchased from CLEAR.



Single-end Feed



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 inter-connection are inclusive.

How to Minimize Voltage Drop and Signal Transmission Attenuation

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".
3. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

Max. Cable Length

Input: DC24V

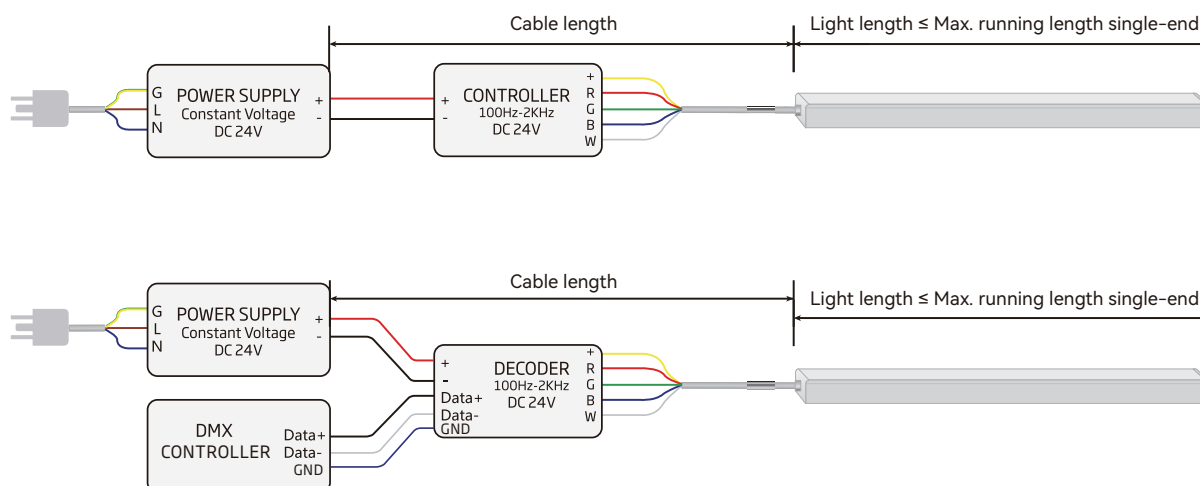
C-SFR-F15A&F21A										
Light Length (m)	0.32mm ² 22AWG		0.52mm ² 20AWG		0.81mm ² 18AWG		1.32mm ² 16AWG		2.07mm ² 14AWG	
	m	ft	m	ft	m	ft	m	ft	m	ft
1	137.00	449.47	222.62	730.39	346.78	1137.72	565.12	1854.06	886.21	2907.50
2	68.50	224.73	111.31	365.19	173.39	568.86	282.56	927.03	443.10	1453.75
3	43.11	141.44	70.05	229.84	109.12	358.01	177.83	583.43	278.87	914.92
4	32.09	105.29	52.15	171.10	81.24	266.52	132.38	434.33	207.60	681.11
5	25.79	84.61	41.91	137.49	65.28	214.17	106.38	349.02	166.82	547.32
6	21.56	70.72	35.03	114.92	54.56	179.01	88.91	291.71	139.43	457.46
7	17.71	58.10	28.78	94.42	44.83	147.08	73.05	239.68	114.56	375.86
8	15.43	50.64	25.08	82.29	39.07	128.18	63.67	208.88	99.84	327.57
9	13.12	43.05	21.32	69.95	33.21	108.96	54.12	177.57	84.87	278.45
10	11.83	38.80	19.22	63.05	29.93	98.21	48.78	160.05	76.50	250.98

ThermaGlo™ F15E Wiring Diagram

1. 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;
2. A compatible controller is required to achieve various light changing effects;
3. The rated power of controller/decoder shall be higher than the actual power consumption of light; its frequency range shall be 100~2000Hz, and 500Hz is recommended;
4. Full loading in RGBW is not recommended to avoid the overheating of light. 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;
5. Types of standard plugs are optional if power cord is purchased from CLEAR.



Single-end Feed



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 inter-connection are inclusive.

How to Minimize Voltage Drop and Signal Transmission Attenuation

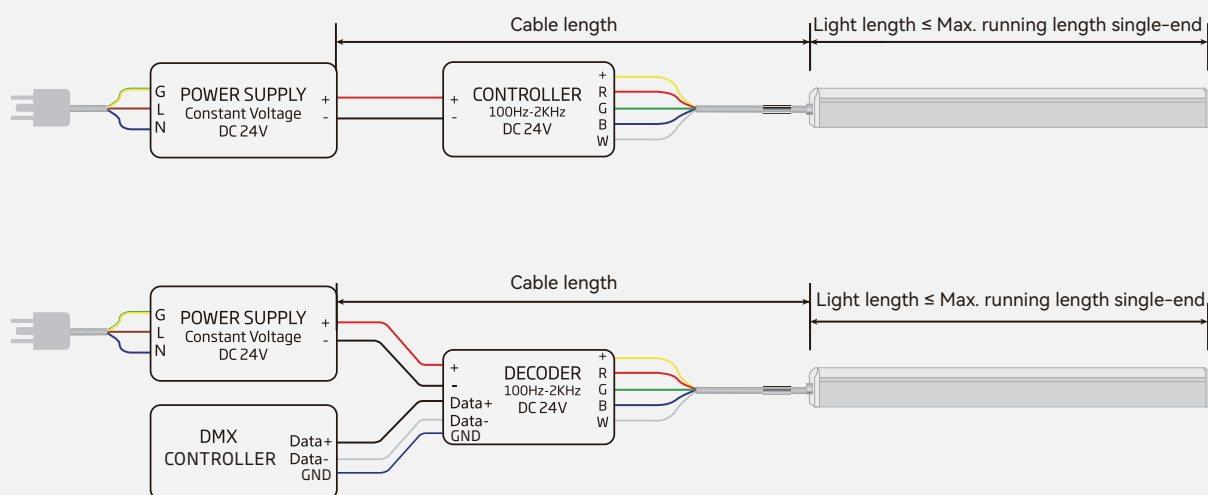
1. Please ensure the cable length is not more than the table "Max. Cable Length" according to light length and its wire gauge.
2. Please ensure the light length is less than the cable "Max. Running Length Single-end Feed".
3. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

ThermGlo™ F21E Wiring Diagram

1. 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;
2. A compatible controller is required to achieve various light changing effects;
3. The rated power of controller/decoder shall be higher than the actual power consumption of light; its frequency range shall be 100~2000Hz, and 500Hz is recommended;
4. Full loading in RGBW is not recommended to avoid the overheating of light.5. 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;
5. Types of standard plugs are optional if power cord is purchased from CLEAR.



Single-end Feed



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 inter-connection are inclusive.

How to Minimize Voltage Drop and Signal Transmission Attenuation

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".
3. Shielded Twisted Pair cable is required to be used to connect DMX master controller and decoder, and its length shall be less than 300m.

Max. Cable Length

Input: DC24V

C-SFR-F15E\F21E										
Light Length (m)	0.32mm ² 22AWG		0.52mm ² 20AWG		0.81mm ² 18AWG		1.32mm ² 16AWG		2.07mm ² 14AWG	
	m	ft	m	ft	m	ft	m	ft	m	ft
1	94.53	310.13	153.61	503.96	239.27	785.01	389.92	1279.28	611.47	2006.14
2	47.98	157.43	77.97	255.82	121.46	398.48	197.93	649.38	310.39	1018.35
3	31.67	103.91	51.47	168.86	80.17	263.03	130.65	428.64	204.88	672.18
4	23.81	78.13	38.70	126.96	60.28	197.77	98.23	322.29	154.05	505.40
5	18.30	60.05	29.74	97.58	46.33	152.00	75.50	247.70	118.39	388.43
6	15.25	50.04	24.78	81.31	38.61	126.66	62.92	206.41	98.66	323.69
7	12.69	41.64	20.63	67.67	32.13	105.41	52.36	171.78	82.11	269.38
8	11.04	36.21	17.94	58.84	27.94	91.66	45.53	149.37	71.40	234.25
9			15.24	49.99	23.73	77.87	38.68	126.90	60.66	199.00
10			13.85	45.45	21.58	70.79	35.16	115.36	55.14	180.91