

Lighting Olympia F18 Multi Color RGBW Neon flex User Manual

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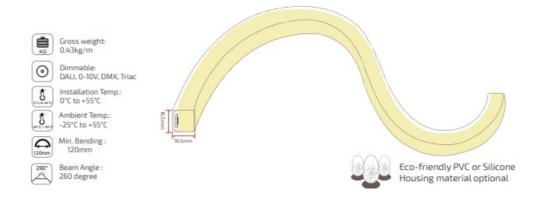
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Dimension

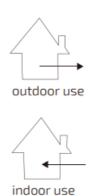


Features

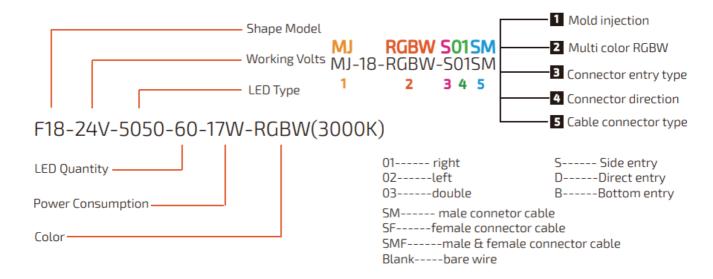
- Uniform and even light output, three side emitting
- Flat surface with 260 degree beam angle
- 60 LEDs per meter, vertical bending
- · Connect with Dali, DMX,PWM
- Full encapsulated with IP68 Level
- High Reliability
- 3 or 5 Years warranty

Applications

- · Building facade, outline
- Cove lighting
- Sign and advertising lighting
- · Linear lighting
- Additional lighting
- Decorative lighting



Model Encoding



Technical Specification

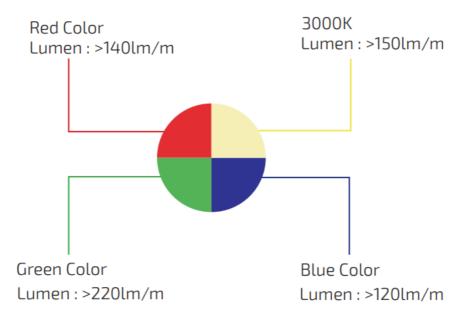
Model	F18-24V-5050-60-RGBW	F18-24V-5050-72-RGBW			
Operating voltage	24V	24V			
Power consumption	17W/M	17W/M			
Working Mode	PWM CV	PWM CV			
LED type	SMD5050	SMD5050			
LED Quantity	60 pcs/m	72 pcs/m			
Available Color	RGBW(2200K/3000K/4000K)	RGBW(2200K/3000K/4000K)			
Min. cutting Unit	6 LEDs	6 LEDs			
Min. cutting length	10cm	8.33cm			
Max. length single feed	8m	8m			
Max. length double feed	16m	16m			
Bending direction	Vertically				
Lumen maintenance	70 000 Hours L70 25°C , 50 000 Hours L70 50°C				
Housing material	Eco PVC or Silicone				
Installation temperature	0°C to +55°C				
Ambient temperature	-25°C to +55°C				
Ingress protection	IP68 wet location submersible* to 2m				
Warranty	3 years as standard, 5 years warranty maximum				

Wavelength

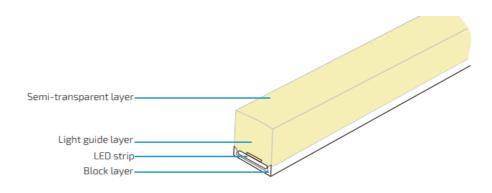
Red (R)	630-650nm
Green (G)	530-550nm
Blue (B)	465-475nm
3000K	3045± 175K

Lumen Output

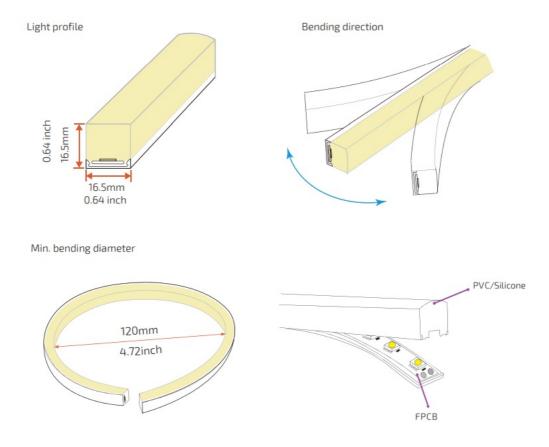
F18-24V-5050-60-RGBW(3000K)



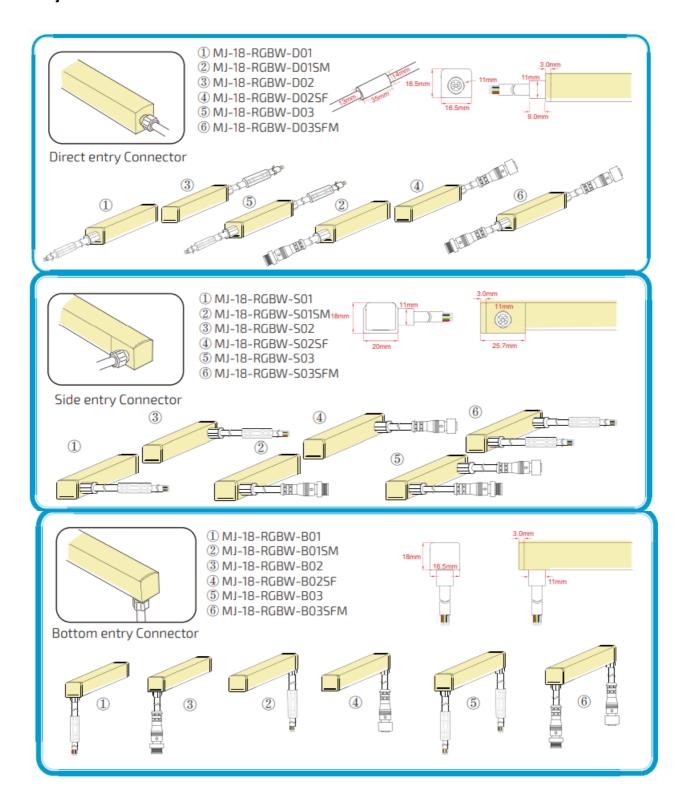
Construction



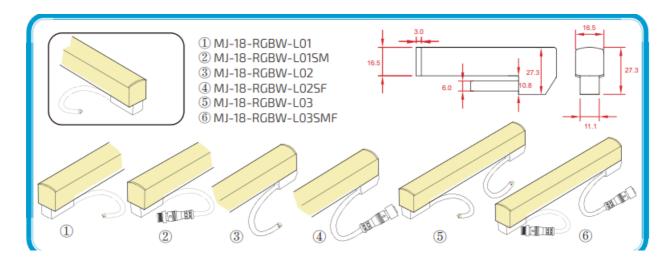
Physical Specification



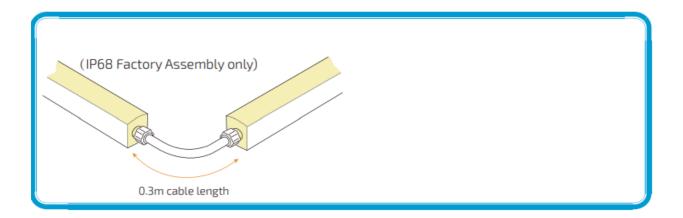
Mold injection connector



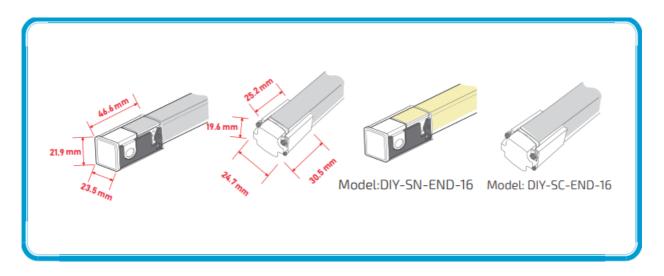
Mold injection Connector



Mold injection Jumper

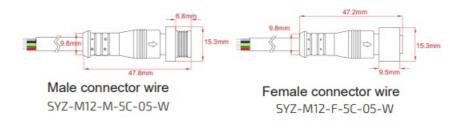


DIY Screw & Snap Connector Kit



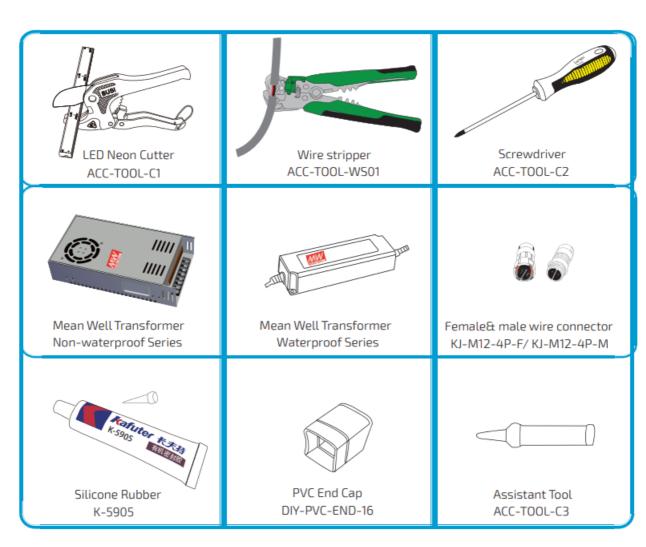
Other Accessories

Female & Male Connector

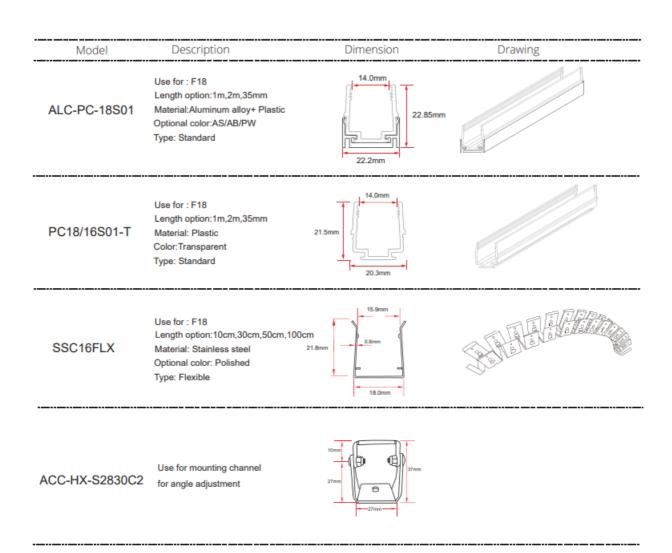








Mounting Channel



Packing





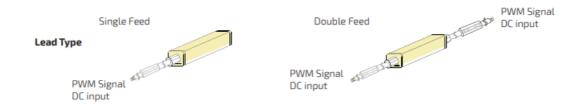
Testing

- 1. Please note it is under normal range if there is 20-30% yellowing of PVC housing material when the product is used under direct sunlight or long-term high temperature & wet environment in 3 years.
- 2. About the tolerance range of optical parameters (luminance, CCT, Watt, RA) for all product, the volume is plus and minus 10% fluctuation refering to IEC Standard.
- 3. It's normal for the tolerance range in total length, it occurs from the different production technology, environmental temperature and installation. the volume would be 0.1-5M±7mm, 5.1-10M±15mm, 10.1-20M±30mm.

Loading Chart

Power supply

Rated power	35W	60W	75W	80W	100W	120W	150W	185W	240W	320W
17W	1.5m	2.5m	3.5m	3.8m	4.5m	5.5m	7m	8.5m	10m	1



Note: These are the max recommended run lengths based on the power supply For example, It is recommended to use one 80W power supply for a single-feed run of 3.8m at 17W/m.

Recommendation of extension wire

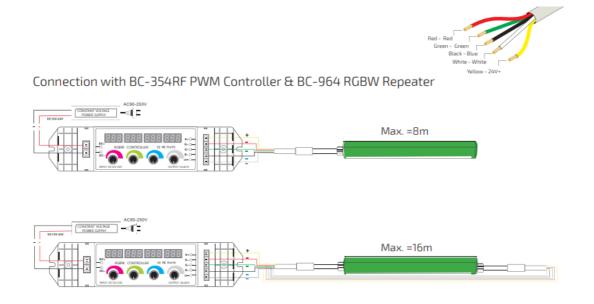
Maximum extension wire length according to Light power

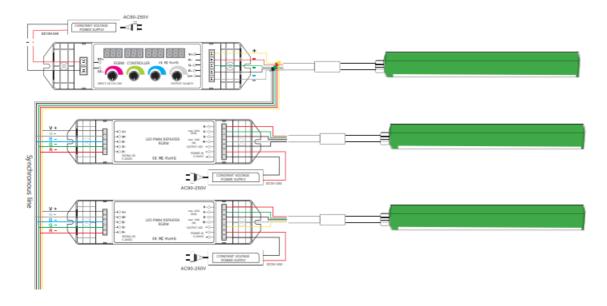
Watts of lig	22AWG	20AWG	18AWG	17AWG	16AWG	14AWG	12AWG	10AWG
	0.34mm ²	0.53mm ²	0.82mm ²	1.04mm ²	1.38mm ²	2.07mm ²	3.29mm 2	5.62mm ²
10W	36m	60m	100m	120m	140m	240m	400m	600m
20W	18m	30m	50m	60m	70m	120m	200m	300m
30W	12m	20m	30m	38m	45m	80m	130m	200m
40W	8m	15m	22m	28m	35m	60m	95m	140m
50W	6m	12m	18m	22m	28m	48m	75m	105m
60W	5m	10m	15m	18m	22m	36m	60m	88m
70W	/	8m	12m	14m	18m	30m	50m	72m
80W	/	6m	10m	11m	14m	24m	40m	58m
90W	/	4m	7m	8m	10m	18m	30m	45m
100W	/	/	5m	6m	7m	12m	22m	32m
110W	/	/	3m	4m	5m	8m	15m	22m
120W	/	/	2m	2.5m	3m	0m	8m	12m

Note:

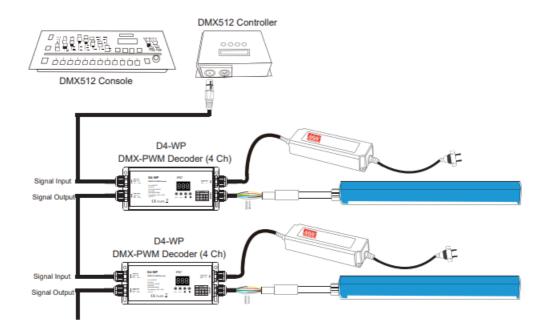
- 1. The values don't include the 0.6m cable connected to the front connector.
- 2. To ensure the reliability of the wire connection and avoid the problem of voltage drop, the extension wire length should be smaller than the above-recommended values.

Connection diagram

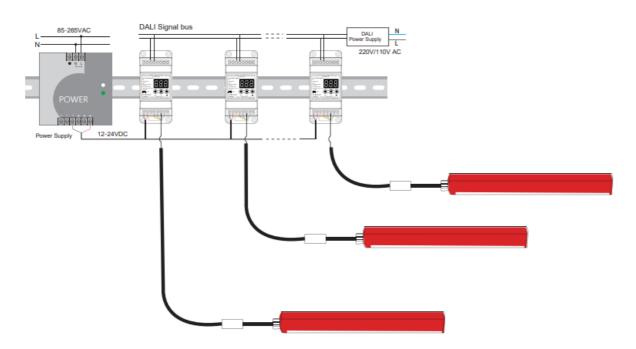




Connection with DMX512 console or DMX512 Controller



Connection with DALI control Systems



For more information Email: info@olympialed.com Or visit www.olympialed.com

Documents / Resources



<u>Lighting Olympia F18 Multi Color RGBW Neon flex</u> [pdf] User Manual F18 Multi-Color RGBW, RGB Neon flex, F18 RGB Light, F18

References

• 0 Olympia Lighting | Flexible LED Solutions | Outdoor & Architectural – IP68 LED Linear Flex | LED Neon Strip

Manuals+,