

### Professional LED Light Manufacturer Since 2008



www.wilgex-led.com



(86)769-28820681

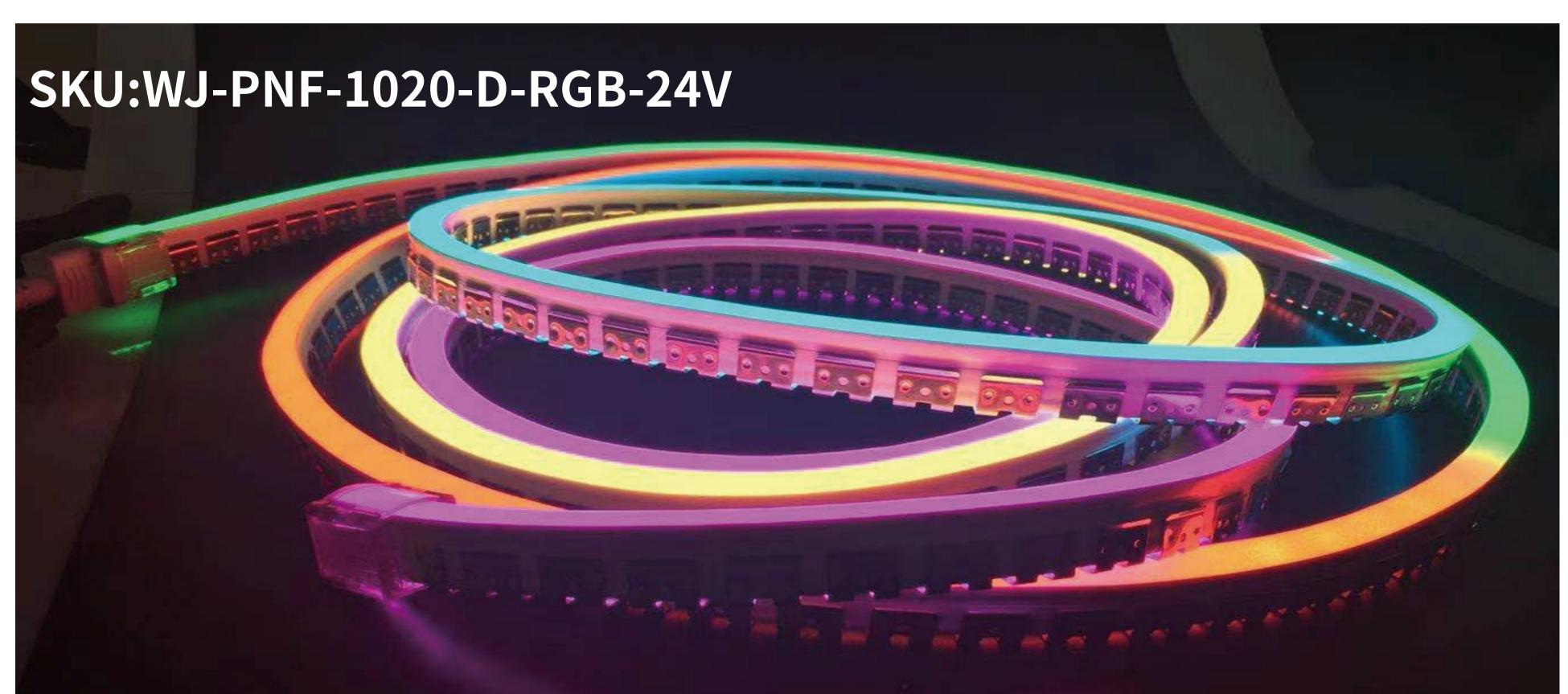


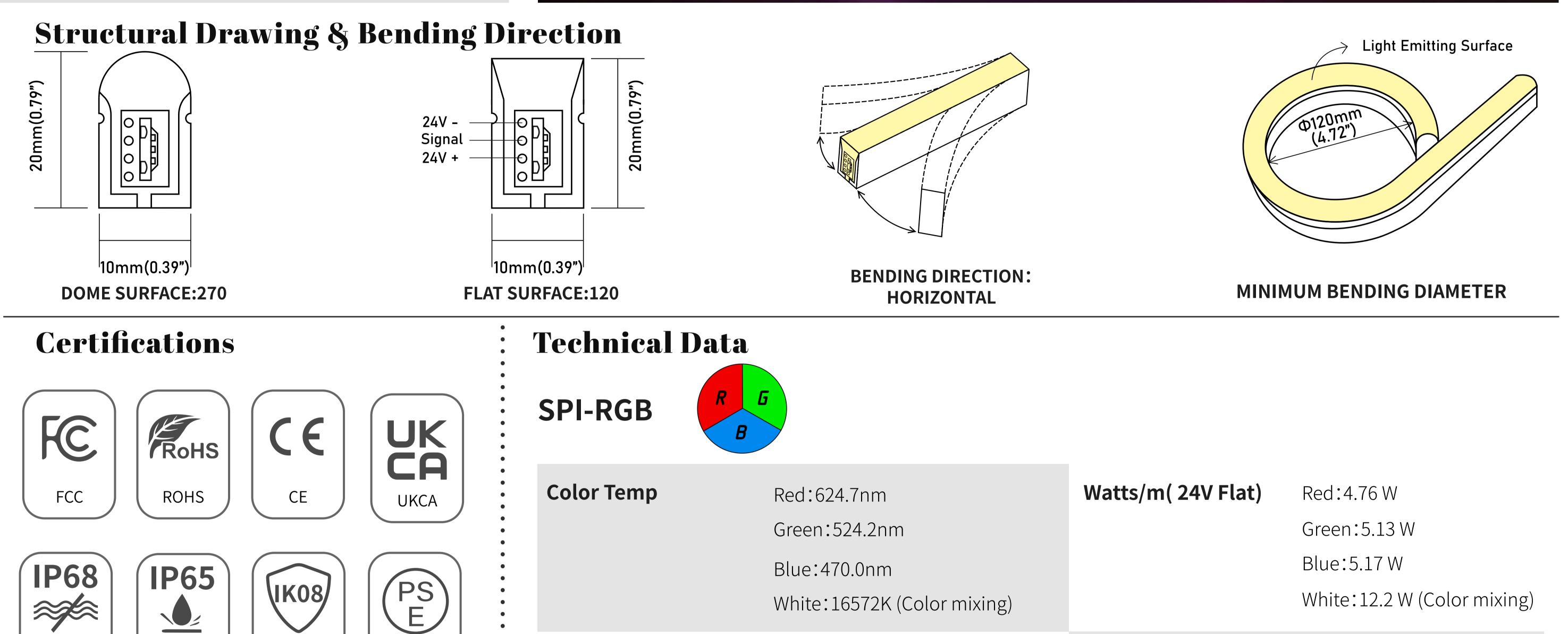
# **10x20mm** DOME/FLAT

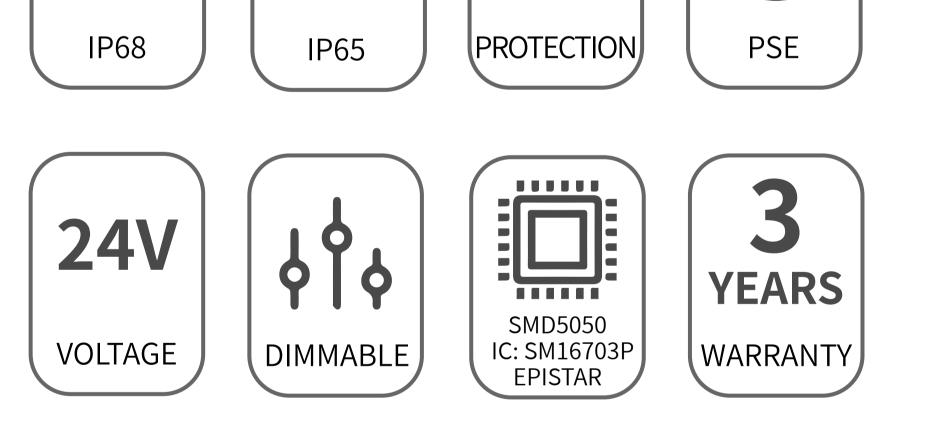


DYNAMIC PIXEL RGB COLOR

 $\mathbf{24V}$ 







#### Lumen/m (24V Flat) Red: 33.68 lm

Green:66.23 lm

Blue:12.99 lm

#### White:108.16 lm (Color mixing)

60 LEDs + 10 ICs IC code: SM16703P (compatible with all ICs and controllers in the WS2811, 1804, and 1809 series)

## **Optical Parameter Chart for Integrating Sphere Testing**

Chroma Parameters Chro.Coor.: x=0.2635 y=0.2607 u=0.1882 v=0.2793 duv=-0.0034 CCT: Tc=16518K Dominant Wave.: 477.2nm Purity: 30.6% Flux Ratio: R=25.1%,G=64.3%,B=10.7% Peak Wave.: 464.3nm Half Width: 22.2nm Rending Index: Ra= 26.1 R1 =6.5 R2 =40.9 R3 =64.7 R4 =27.5 R5 =28.2 R6 =34.6 R7 =42.4 R8 =-36.0 R9 =-296.2R10=-41.5 R11=15.9 R12=41.2 R13=11.1 R14=75.5 R15=-16.6

#### Photo Parameters

Flux: 108.281m Effi.: 8.81m/W Radiant: 488.4mW Iv: 0.0mcd

## Reliability test

LED Quantity(m)

<b>TEST CATEGORY</b>	TEST ITEMS	STANDARD/VALUE
<b>Optical Test</b>	Spectrum Analysis	IES LM 79(CCT, lumen, CRI, SDCM, XY, wavelength)
	Photometric Distribution	IES LM 79(lumen intensity distribution & Lux diagram)
	Lumen Maintenance & Lifetime	IES LM84 & IES TM 28
<b>Temperature Test</b>	Nomal Temperature Test -25°C	UL 1598 & UL2388 & IEC60598-1 & IEC60598-2-21
	Abnormal Operation Test -70°C	UL 1598 & UL2388 & IEC60598-1 & IEC60598-2-21
Physics Test	Bending Test	Manufacturer-defined, 1000 cycles
	Swing Test	UL2388, >750 cycles
	Tensile Test	Manufacturer-defined, >the weight of light in max. running length by double ends feed
	Twist Test	Manufacturer-defined, 200 cycles
	IK08	IEC62262
	Ball Impact	UL 1598 & UL2388 & IEC60598-1 & IEC60598-2-21
Weathering Test	Swimming Pool Water Immersion Test	GB9667, PH6.8-7.6, free chlorine 0.3-0.6mg/L
	Sea Water Immersion Test	IEC 60598-1, Salinity 4%
	Salt Spray Test	IEC68-2-11
	Outdoor Exposure	Manufacturer-defined
Environment Test	Flame Resistant Test	UL94
	UV Exposure Test	ASTMG154, UVA@340nm
	IPX5 IPX6 IPX7 IPX8	IEC60529
	Temperature Shock Test	Manufacturer-defined, -40°C-60°C(typical temperature range
	Constant Temperature Test	Manufacturer-defined, 70°C(typical temperature range)

Unit Cut(24V)

Max Loading(24V)

10cm

20m

Ele. Parameters Voltage:U=24.000V Power:P=12.20W

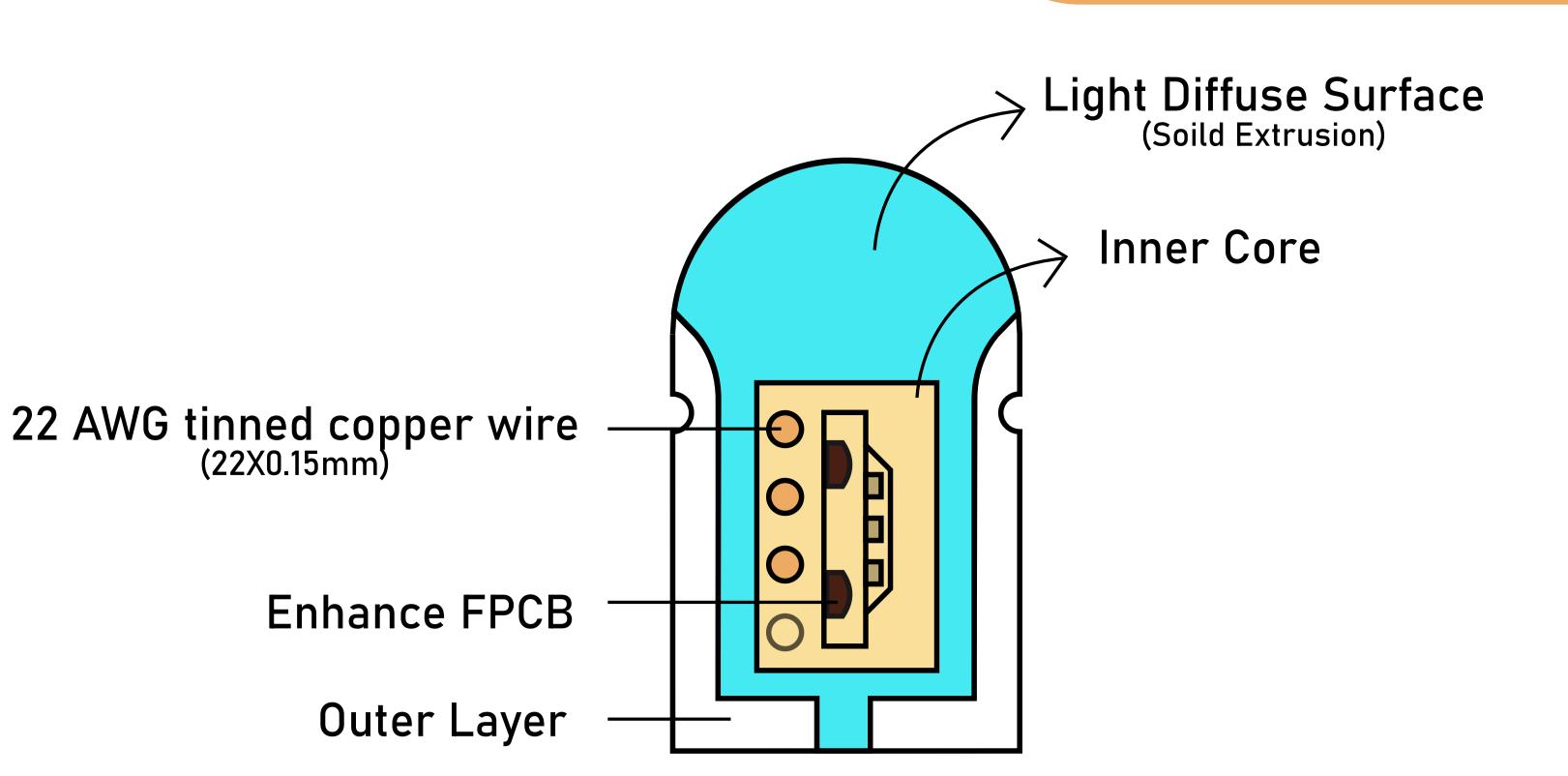
Current:I=0.5080A Power Factor:PF=1.000

Wilgex specializes in engineering LED flexible neon lights and offers both standard and customized services. If you have specific requirements, please contact our sales department.

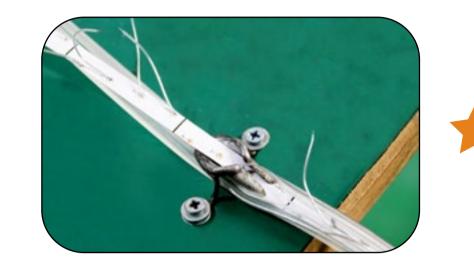


### Five-star quality assurance

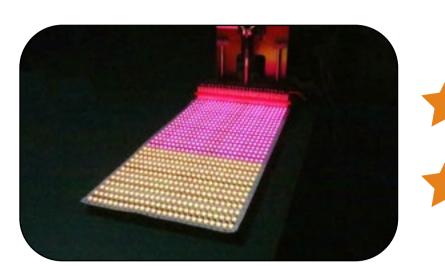




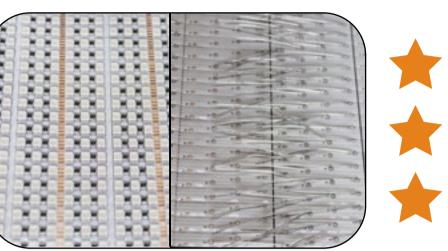
### **Unique Design**



**Dual Power** Supply Design



**Enhance thickness** FPC design principle



LED anti-death design

**LED NEON FLEX** 



**Stronger inner core** protection design



Solid extrusion design for exterior

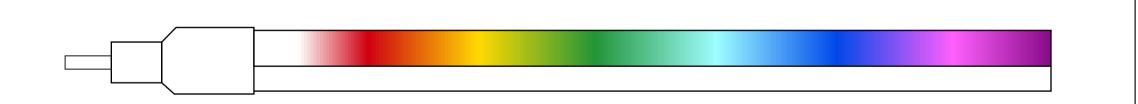
### **Features:**

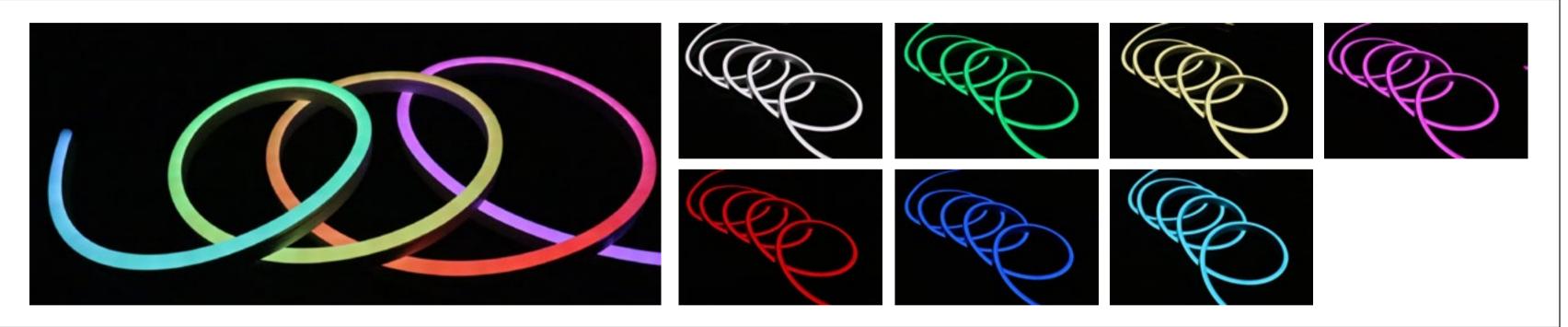
1. Ultra-thin: The thickness of the strip is only 10mm

- 2. Small size: The LED chips have a small size of 10mm x 20mm
- 3. High-density LED chips: The strips have a high density of LED chips, resulting in a brighter and more uniform light output
- 4. Flexible and bendable: Can be bent into various shapes and designs
- 5. Energy-efficient: Uses less power compared to traditional neon lights
- 6. Long lifespan: Can last up to 50,000 hours
- 7. Low heat emission: Does not emit as much heat as traditional neon lights
- 8. Wide color options: Available in a wide range of colors
- 9. Easy to install: Can be cut and connected to fit any desired length and shape
- 10. Durable and weather-resistant: Can withstand various weather conditions

11. Safe to use: Low voltage and does not contain hazardous materials like mercury 12. Cost-effective: Offers a cost-effective alternative to traditional neon lights.

## Wide Color Options



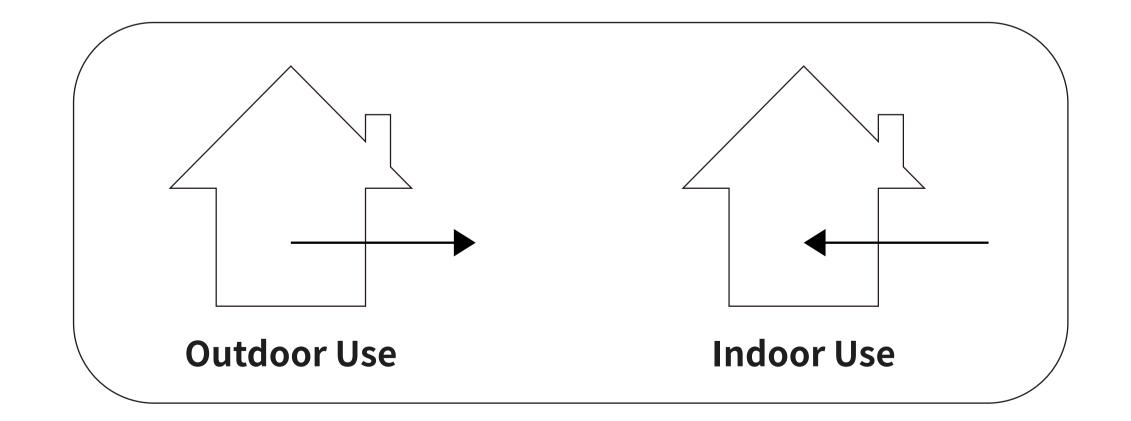


Dynamic Pixel RGB

### **Recommended Usage Scenarios :**

1. Indoor and outdoor architectural lighting decoration

- 2. Landscape lighting
- 3. Advertising signage lighting
- 4. Stage and theater lighting
- 5. Car and motorcycle lighting
- 6. Holiday and event lighting decoration
- 7. Cove lighting
- 8. Edge-lit lighting
- 9. Retail and display lighting
- 10. Restaurant and bar lighting



Please note that these are only recommended usage scenarios and it is important to consult the product specifications and guidelines before using flexible LED neon light strips in any application.



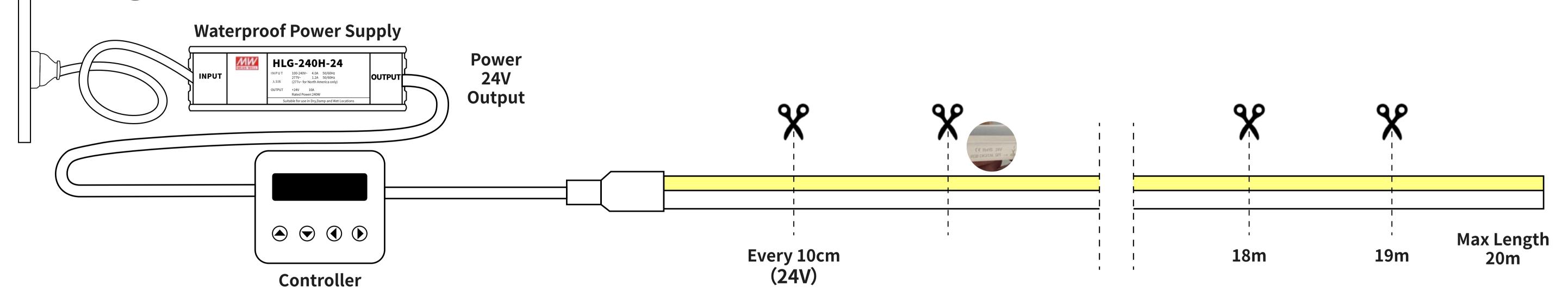




Packing Method : Reel + boardcards Quantity / Box : 50 meters / reel Gross Weight : 10.5 Kg ( 23.10LB) Size of outer box : 32 x 32 x 21cm CBM : 0.022 m3 / box

## Mini Cutting Length & Connection Length

• Voltage (24V)





### **Controller Selection**



Updated version SPI magic color controller

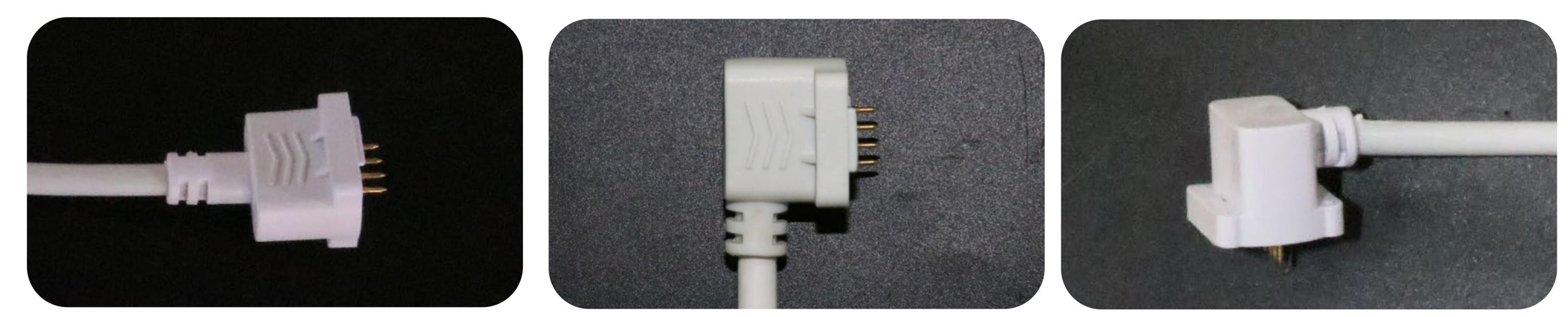


LT-200 LED Digital Controller



SP108E LED WIFI Controller

## **IP68 (DIY Screw & Snap Connector)**

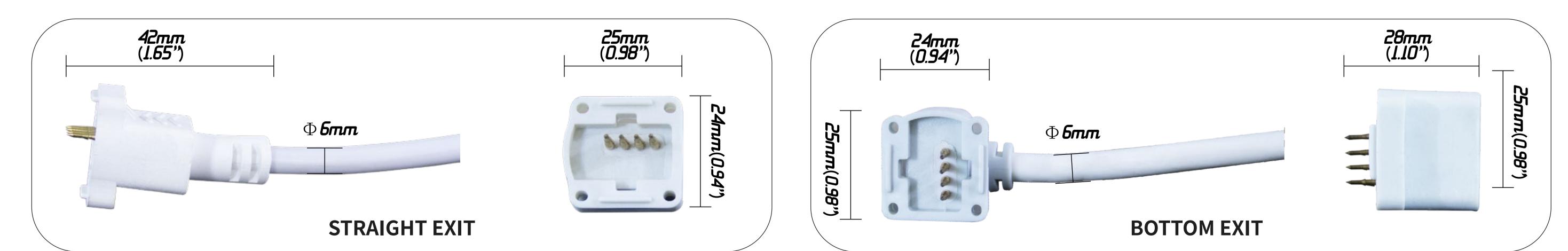


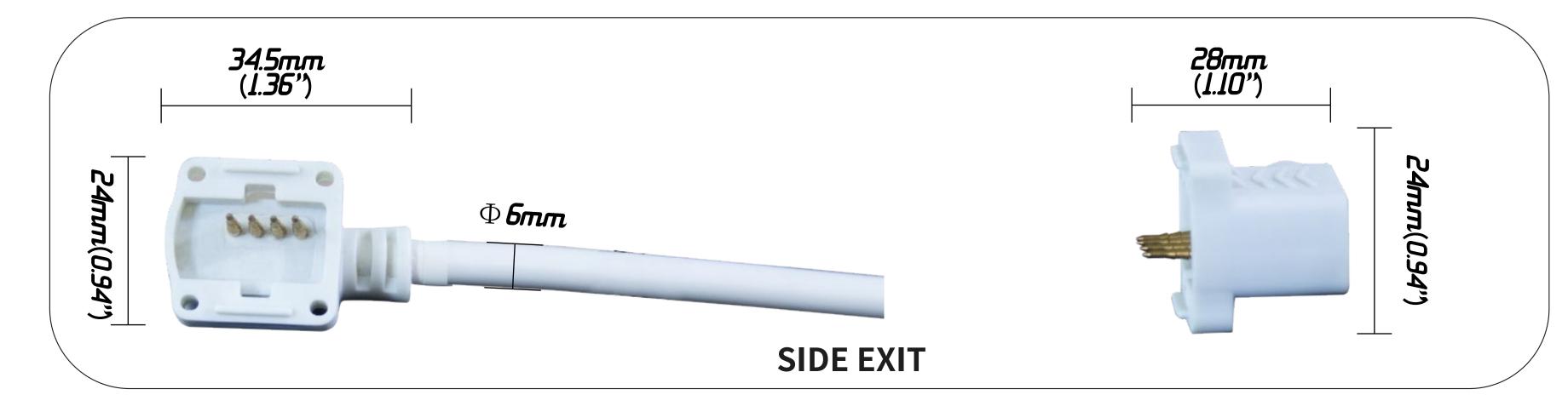
**STRAIGHT EXIT** 

**SIDE EXIT** 

#### **BOTTOM EXIT**

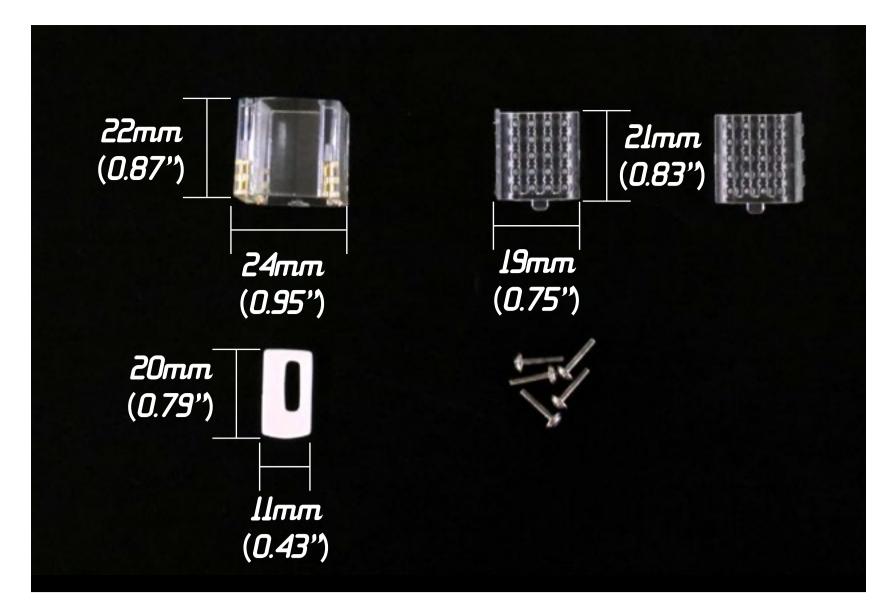
### • **Part Details** (Cable Length: 50cm)





Wilgex®





25mm ("89.0) 20mm ("27.0) 22mm (0.87") 24mm 24mm İlmm (0.43'') (*0.95"*) (*0.95''*) Zlmm (0.83") 1 19mm I9mm (0.75") (*0.75''*)

FRONT POWER CONNECTOR

**END CAP** 

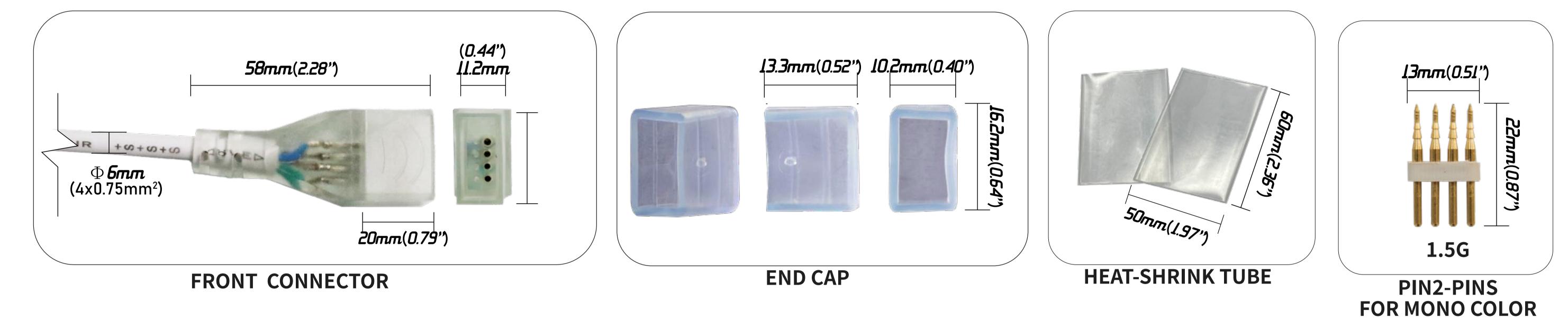
## **IP65 (DIY Connector)**



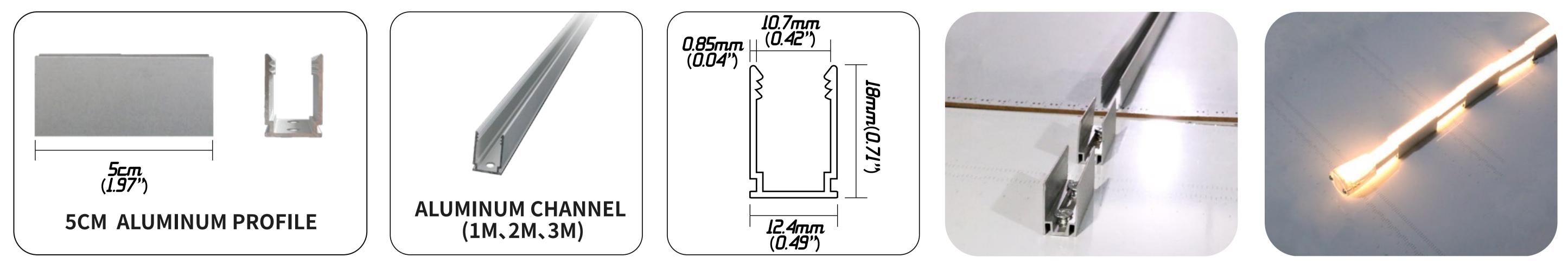
3 CORDS

Cable Length: 50cm

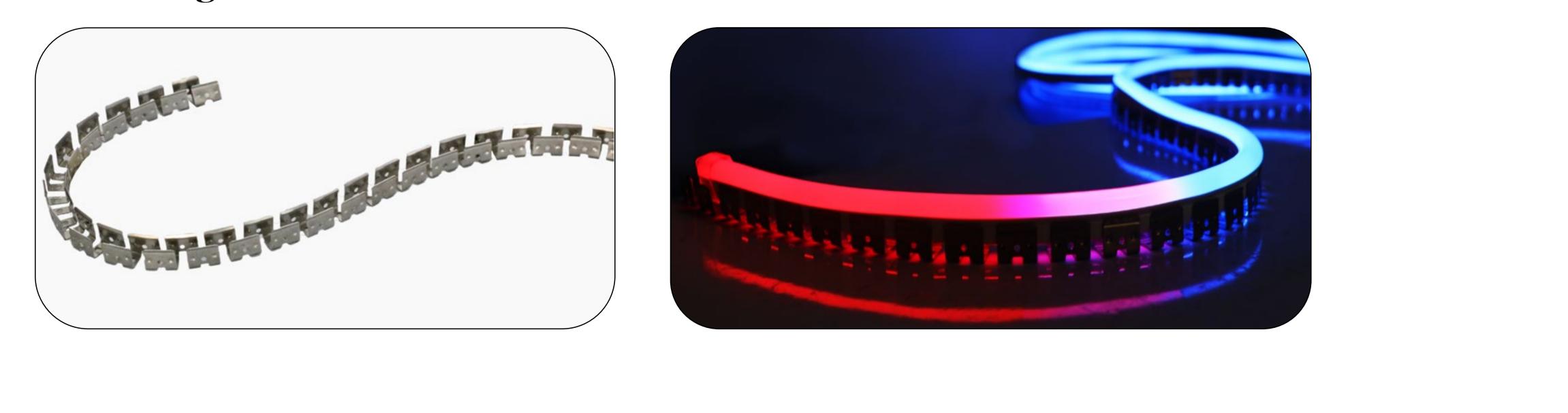
#### • Part Details



### Mounting Aluminum Channel



### Mounting Flexible Stainless Channel



#### Note: The specifications listed above are subject to change without prior notice.