

Professional LED Light Manufacturer Since 2008



www.wilgex-led.com



(86) 769-28820681



info@wilgex-led.com

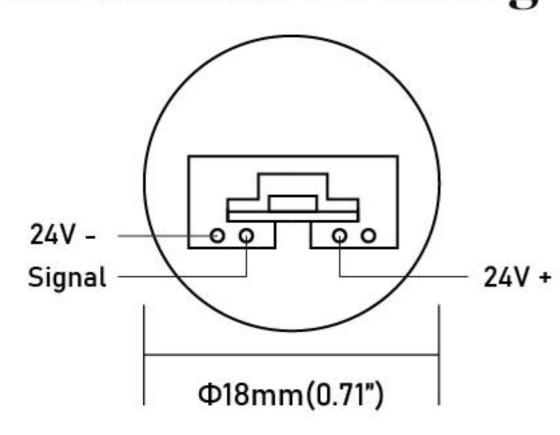
Dia 18mm

DYNAMIC PIXEL RGB COLOR

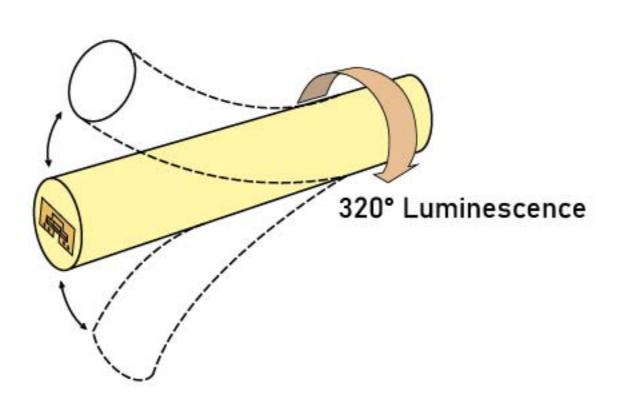
LED NEON FLEX



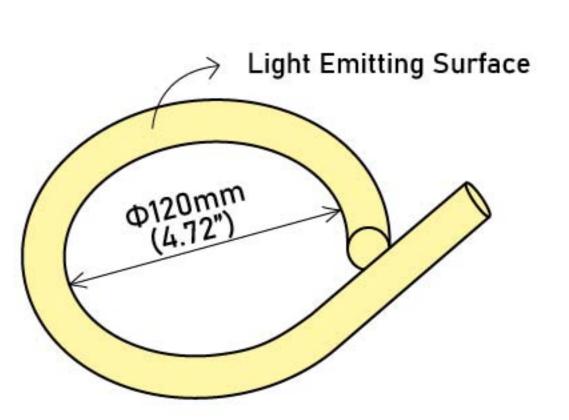
Structural Drawing & Bending Direction



CIRCLE / LIGHT BEAM ANGLE:320°



BENDING DIRECTION: VERTICAL

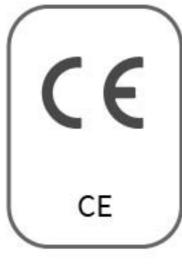


MINIMUM BENDING DIAMETER

Certifications





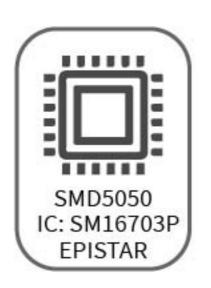




















Optical Parameter Chart for **Integrating Sphere Testing**

Chroma Parameters Chro.Coor.: x=0.2386 y=0.2497 u=0.1729 v=0.2715 CCT: Tc=44704K Dominant Wave.: 480.1nm Purity: 39.7% Flux Ratio: R=20.9%,G=67.2%,B=11.9% Peak Wave.: 464.5nm Half Width: 20.8nm

R1 =34.6 R2 =52.5 R3 =67.0 R4 =54.2 R5 =56.2 R6 =54.0 R7 =50.8 R8 =-0.3 R9 =-224.9R10=-10.3 R11=55.4 R12=54.8 R13=33.0 R14=77.7 R15=10.6

Photo Parameters Flux: 487.391m

Effi.: 25.11m/W Radiant: 2153.9mW Iv: 0.0mod

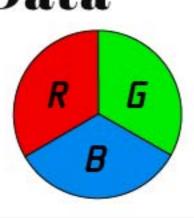
Ele. Parameters Voltage: U=24.000V Power: P=19.35W

Current: I=0.8060A 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.

Technical Data





Color Temp	Red:622.9nm
	Green:526.7nm
	Blue:469.6nm
	White:44514K (Color mixing)

Lumen/m (24V) Red:144.29 lm Green: 321.90 lm Blue: 62.74 lm

White: 487.85 lm (Color mixing)

LED Quantity(m) 112 LEDs + 16 ICs IC code: SM16703P

(compatible with all ICs and controllers in the WS2811, 1804, and 1809 series)

Watts/m(24V)

Red:7.47 W Green: 7.55 W Blue: 7.5 W

White: 19.35 W (Color mixing)

Unit Cut(24V) 25cm

Max Loading(24V) 20m

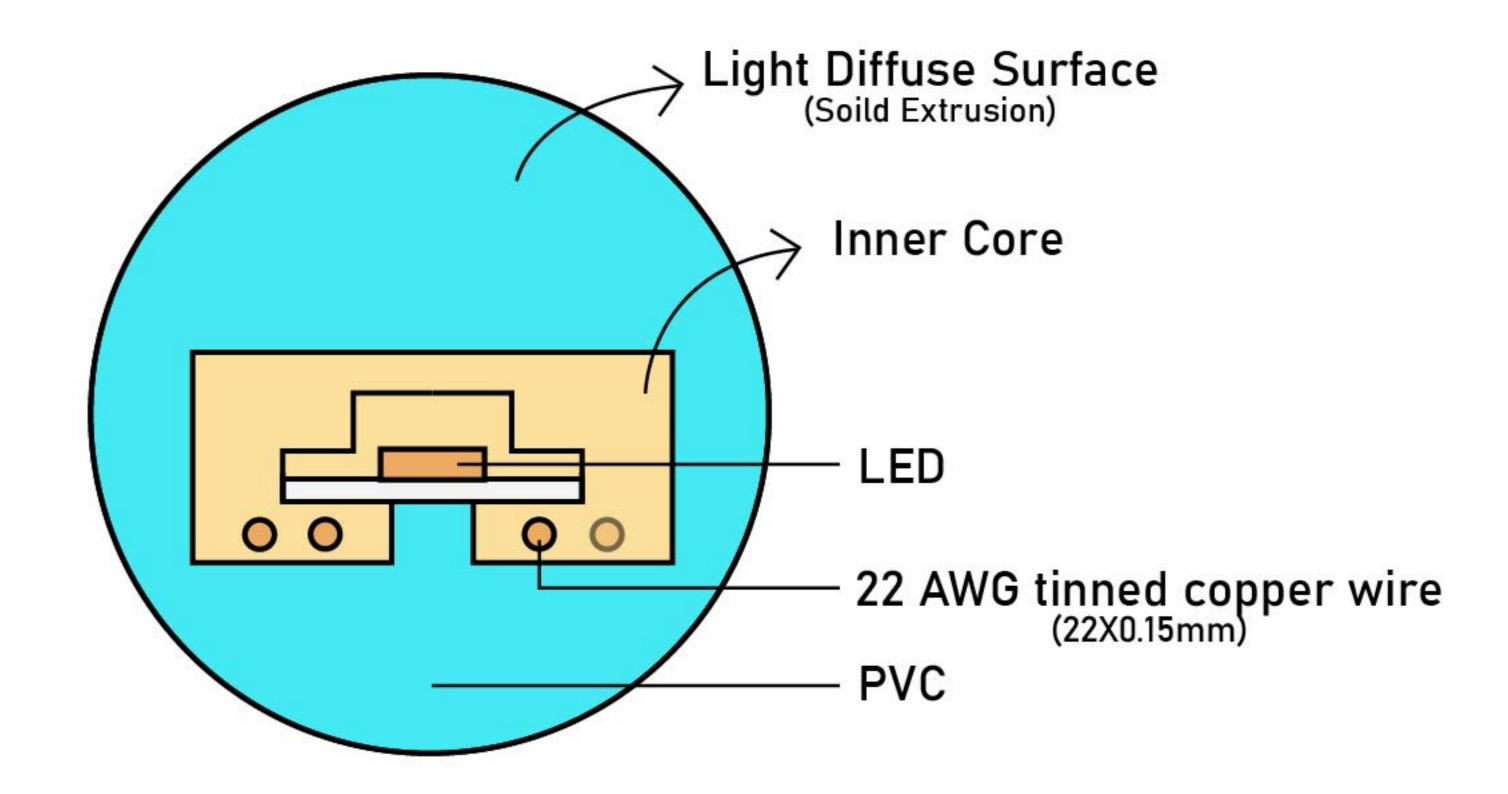
Reliability test

iccinaminity co		
TEST CATEGORY	TEST ITEMS	STANDARD/VALUE
	Spectrum Analysis	IES LM 79(CCT, lumen, CRI, SDCM, XY, wavelength)
Optical Test	Photometric Distribution	IES LM 79(lumen intensity distribution & Lux diagram)
	Lumen Maintenance & Lifetime	IES LM84 & IES TM 28
Temperature Test	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
	Bending Test	Manufacturer-defined, 1000 cycles
Physics Test	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
Weeth suite a Took	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%
Weathering Test	Salt Spray Test	IEC68-2-11
	Outdoor Exposure	Manufacturer-defined
	Flame Resistant Test	UL94
	UV Exposure Test	ASTMG154, UVA@340nm
Environment Test	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)



Five-star quality assurance

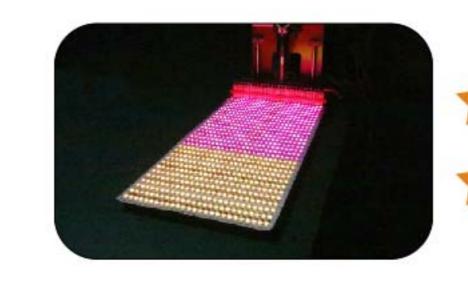




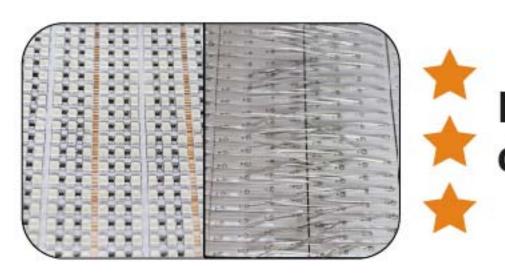
Unique Design



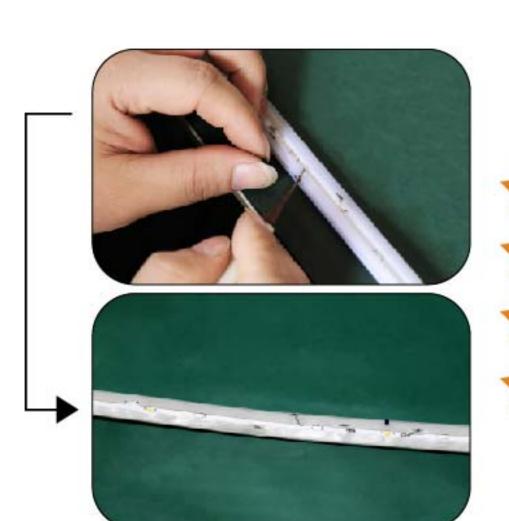
Dual Power
Supply Design



Enhance thickness FPC design principle



LED anti-death design



Stronger inner core protection design

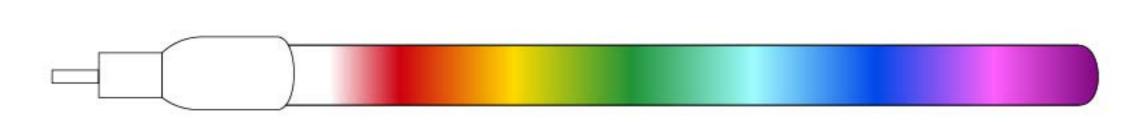


Solid extrusion design for exterior

Features:

- 1. Size: The LED chips have a size of Φ18mm in round shape.
- 2. High-density LED chips: The strips have a high density of LED chips, resulting in a brighter and more uniform light output
- 3. Flexible and bendable: Can be bent into various shapes and designs
- 4. Energy-efficient: Uses less power compared to traditional neon lights
- 5. Long lifespan: Can last up to 50,000 hours
- 6. Low heat emission: Does not emit as much heat as traditional neon lights
- 7. Wide color options: Available in a wide range of colors
- 8. Easy to install: Can be cut and connected to fit any desired length and shape
- 9. Durable and weather-resistant: Can withstand various weather conditions
- 10. Safe to use: Low voltage and does not contain hazardous materials like mercury
- 11. Cost-effective: Offers a cost-effective alternative to traditional neon lights.

Wide Color Options









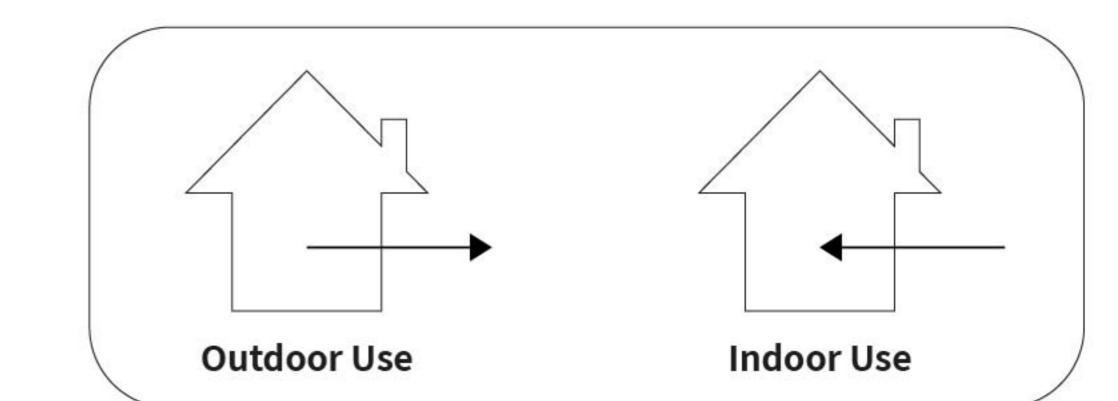




Dynamic Pixel RGB

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 lighting6. 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.















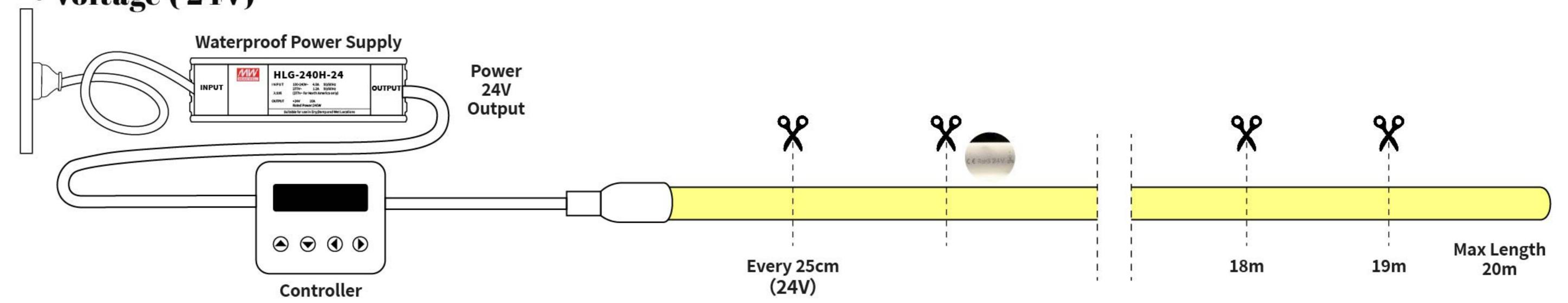




Packing Method : Reel + boardcards Quantity / Box : 50 meters / reel Gross Weight: 18.5 Kg (40.79LB) Size of outer box: 34 x 34 x 40cm

CBM: 0.046 m³ / box

Mini Cutting Length & Connection Length • Voltage (24V)



Controller Selection



HC100 Updated version SPI magic color controller



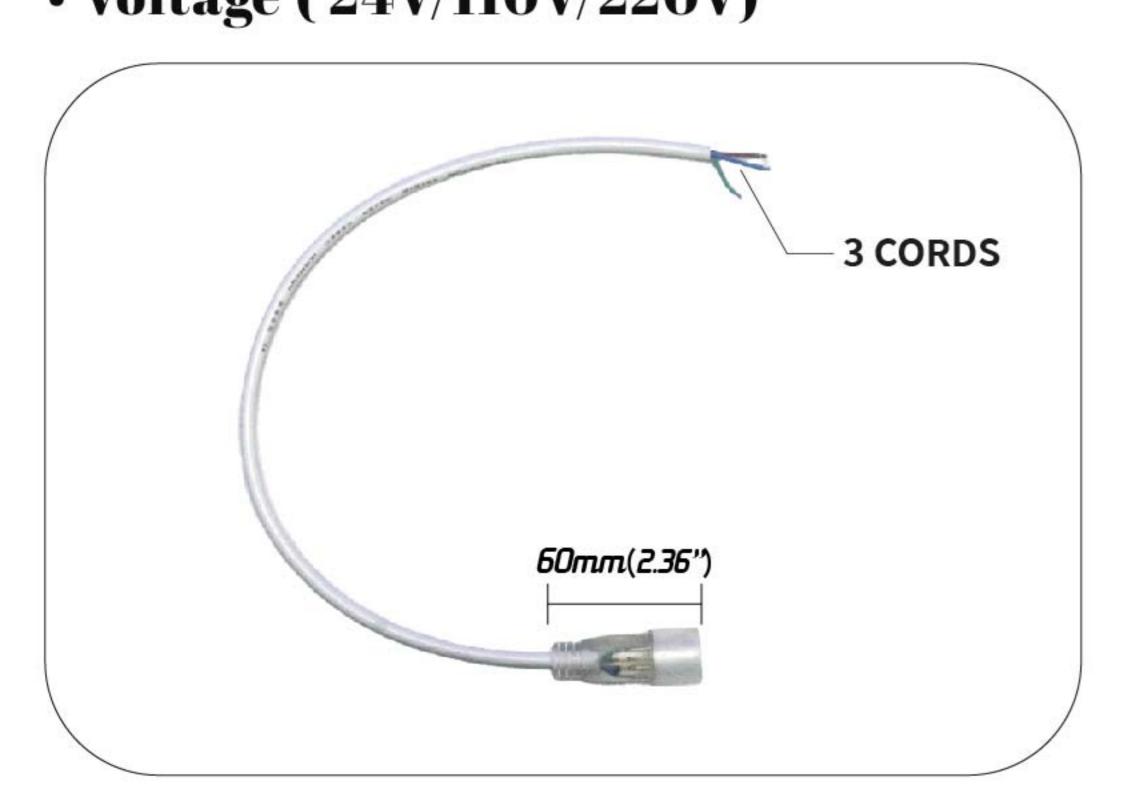
LT-200 **LED Digital Controller**



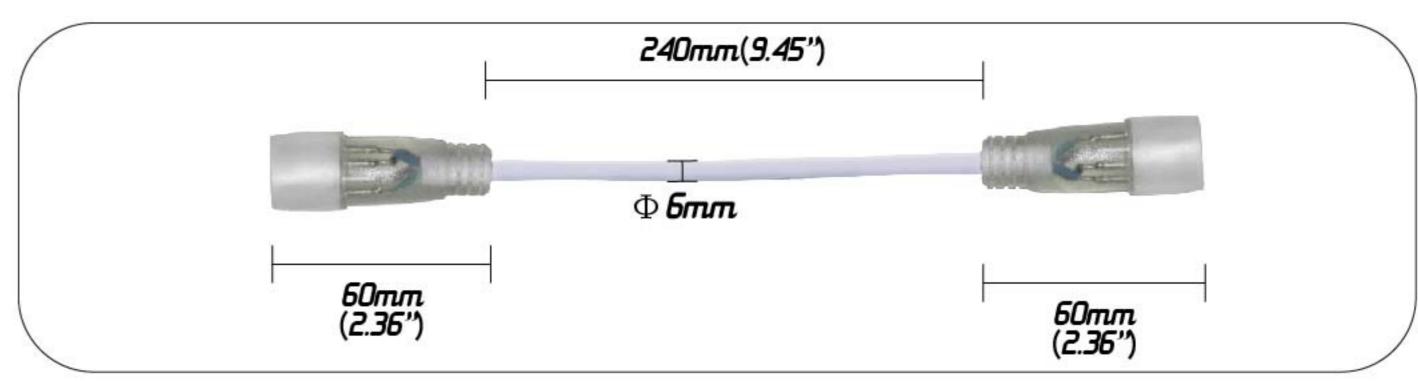
SP108E LED WIFI Controller

IP65 (DIY Connector)

Voltage (24V/110V/220V)

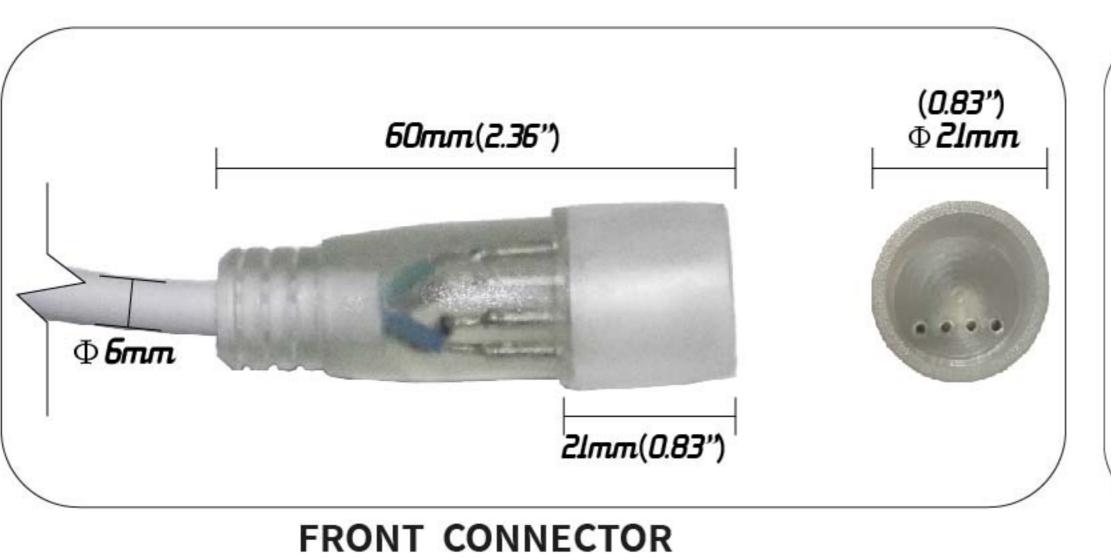


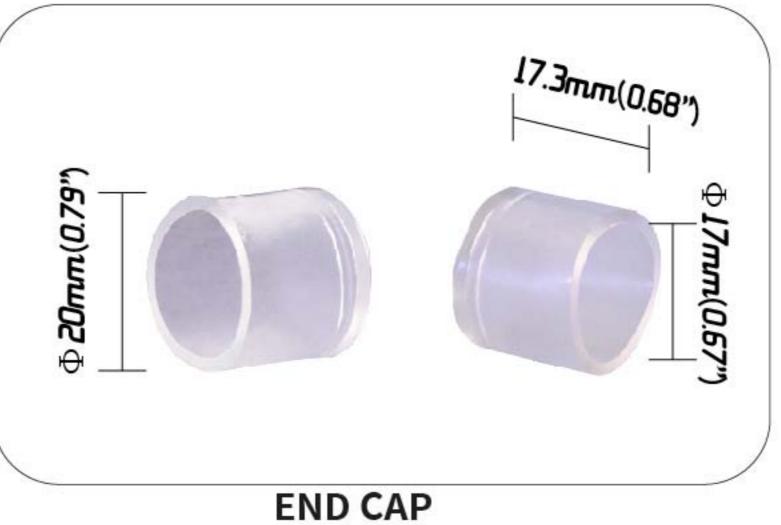




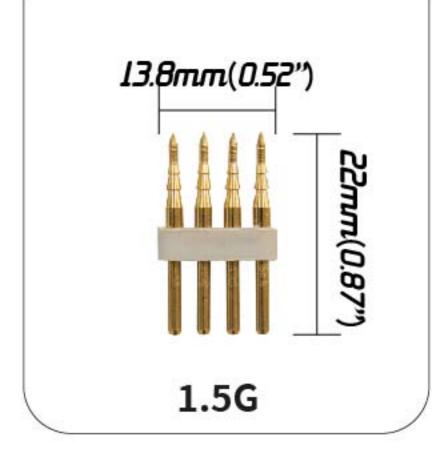
MIDDLE CONNECTOR

Part Details









PIN2-PINS FOR MONO COLOR



Mounting Plastic Transparent Channel

