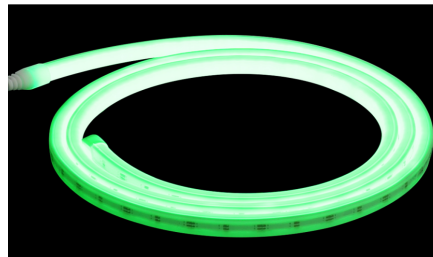
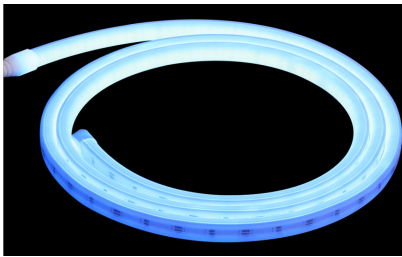
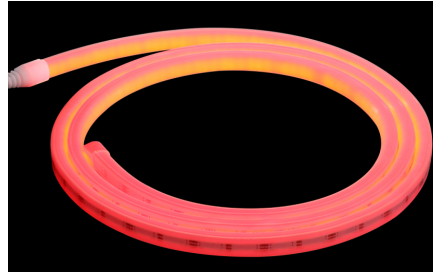


AB-FB Rope Light Series

12V/24V DC, IP68 flexible, top-emitting, diffused rope light, available in single color, RGB, and RGBW.



Features:

- UL listed (#E353753)
- IP67 waterproof rating
- Top emitting, wide viewing angle 120°
- Storage temperature 0°C~60°C
- Operating temperature -20°C~80°C
- Environment humidity 40-70%RH

Application:

- Conference/meeting rooms
- Hospitals
- Commercial/ residential buildings
- ReEntertaining lighting
- Hotels



AB-FB Rope Light Series

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Part number naming system:

Part numbers for AB-FB Rope Light Series follow the convention below:

A B-FB V V V K K K - L L L W L - X A 1

V V V - Voltage (volt) of the light strip (012=12V, 024=24V)

K K – Color/CCT (30 – 3000K, 40 – 4000K, 63 – 6300K CCT, RD – Red, GR – Green, BL – Blue, AM – Amber, 06 – RGB, 08 – RGBW)

L L L – Light strip length (unit: inch);

For 12V, length selection starts from minimum 1 inches (25mm), with the increment of 1 inch (25mm), maximum available length is 197 inches.

For 24V, length selection starts from minimum 1.97 inches (50 mm), with the increment of 1.97 inches (50mm), maximum available length is 394 inches.

W L – Lead length (unit: inch); standard length is 12 inches.

X - CRI (8 – 80, 9 – 90, X – not applicable)

Ax - Version (Internal Code)

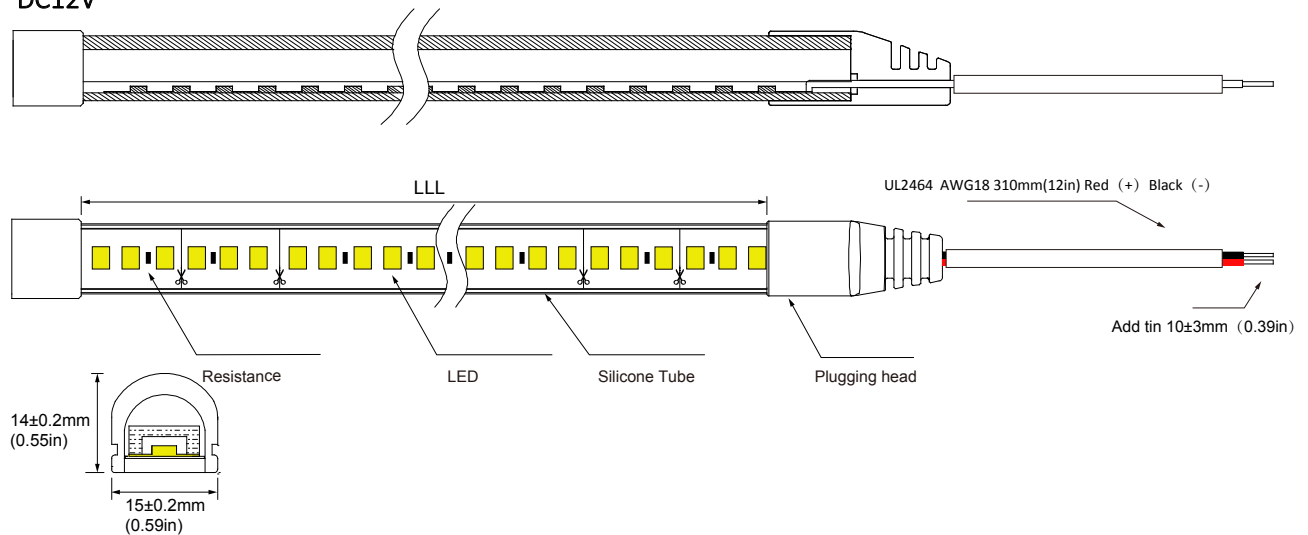
For example, the below part number of AB-FB Rope Light Series stands for 24V, IP67, top-emitting rope light 197 inches length, and lead 12 inches length, 3000K CCT:

A B – F B 0 2430 – 1 9 7 1 2 – 8 A 1

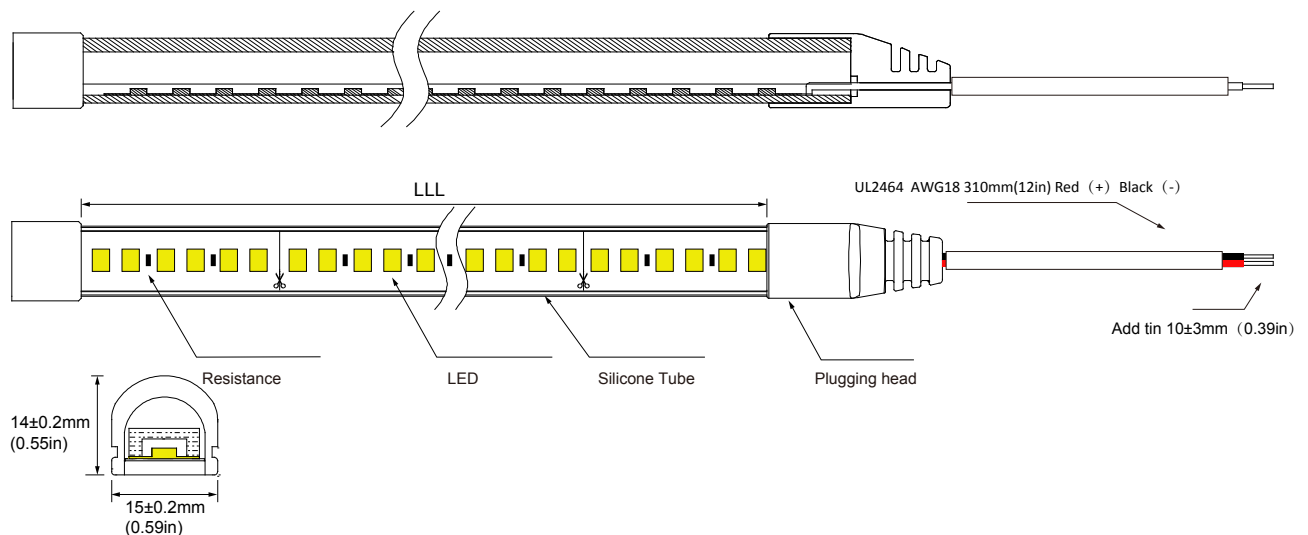
Outline Dimension:

Single Color:

DC12V



DC24V

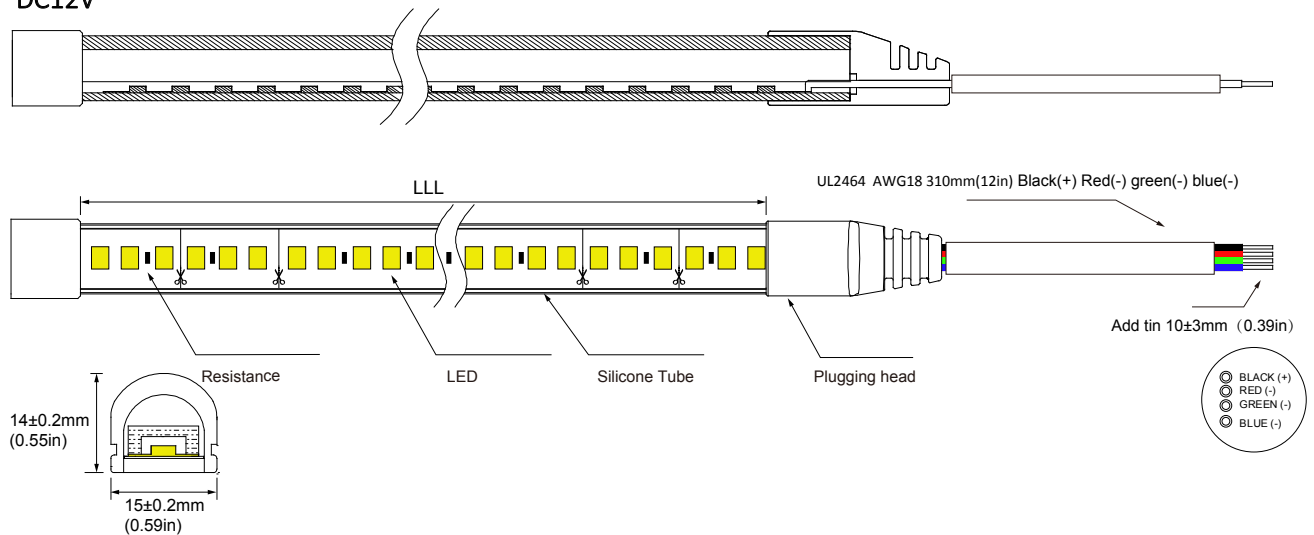


AB-FB Rope Light Series

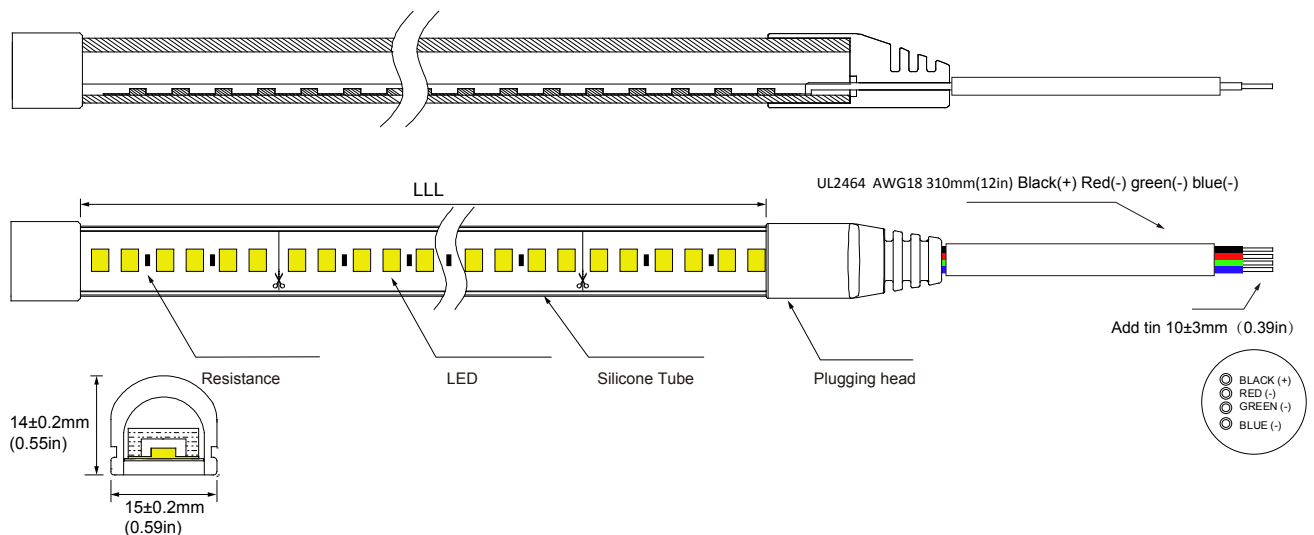
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RGB Color:

DC12V



DC24V

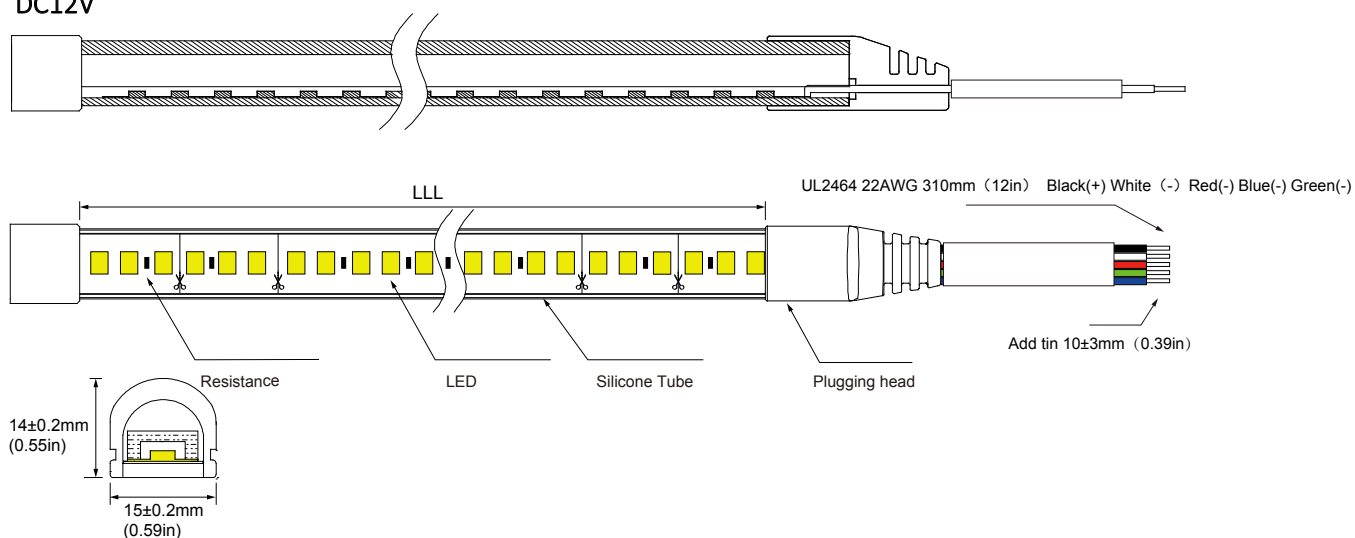


AB-FB Rope Light Series

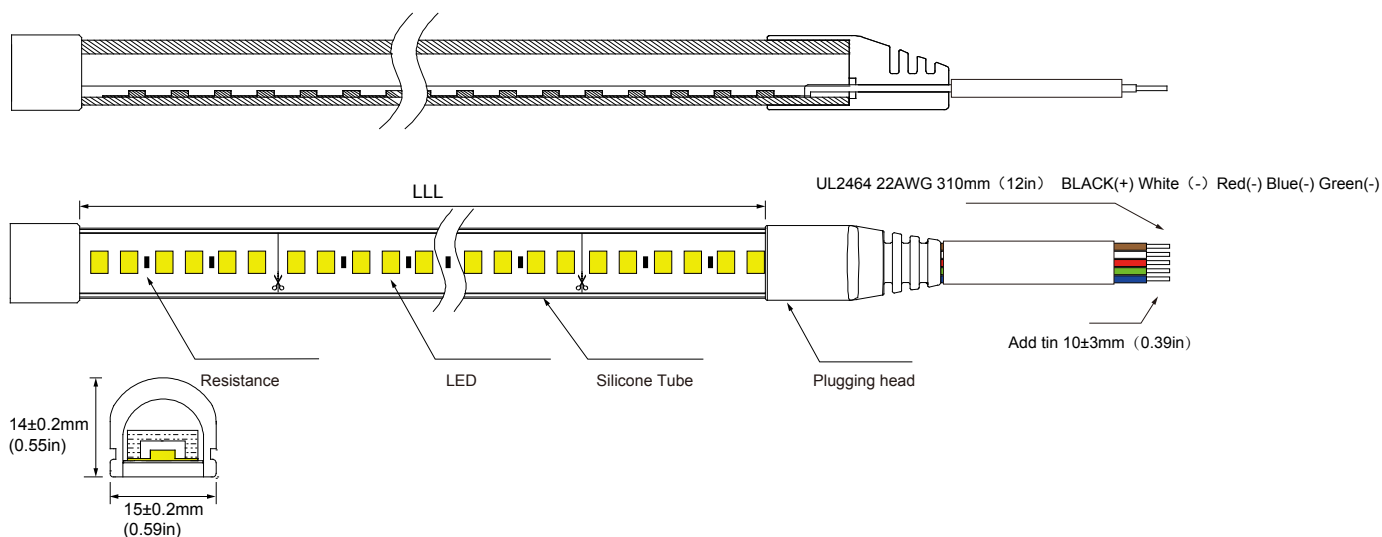
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RGBW Color:

DC12V



DC24V



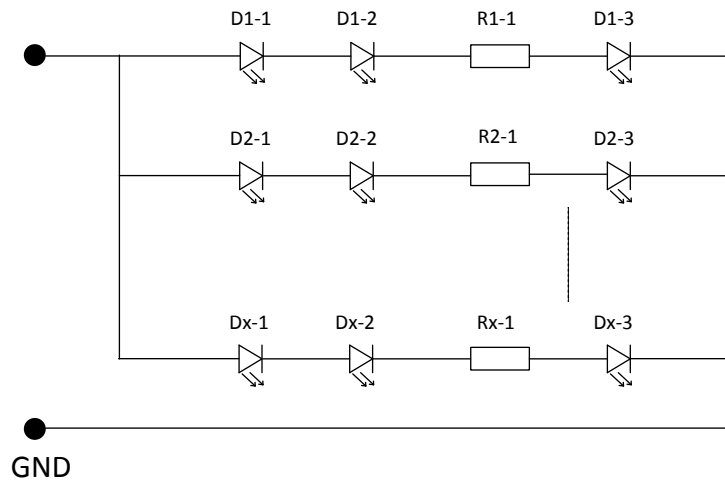
AB-FB Rope Light Series

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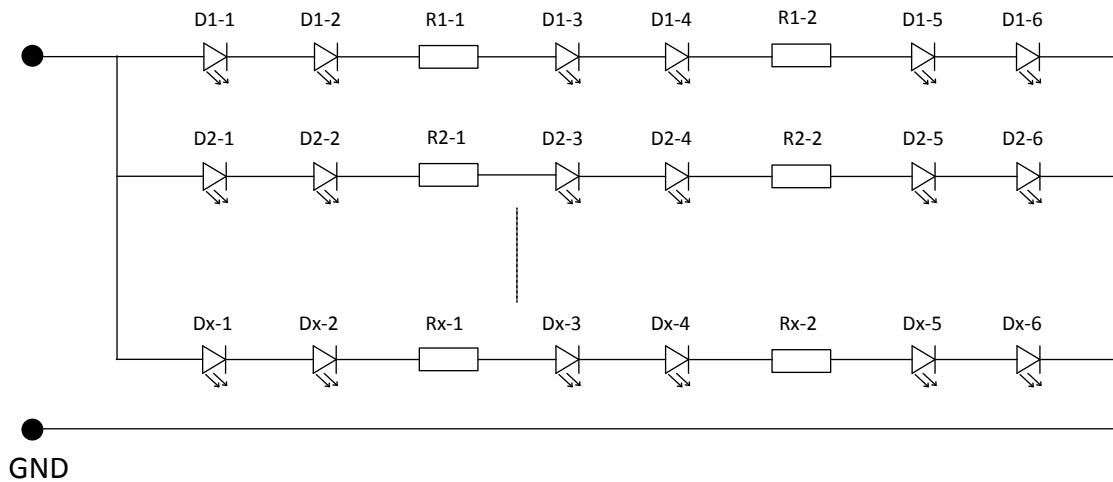
Schematic Diagram :

Single Color:

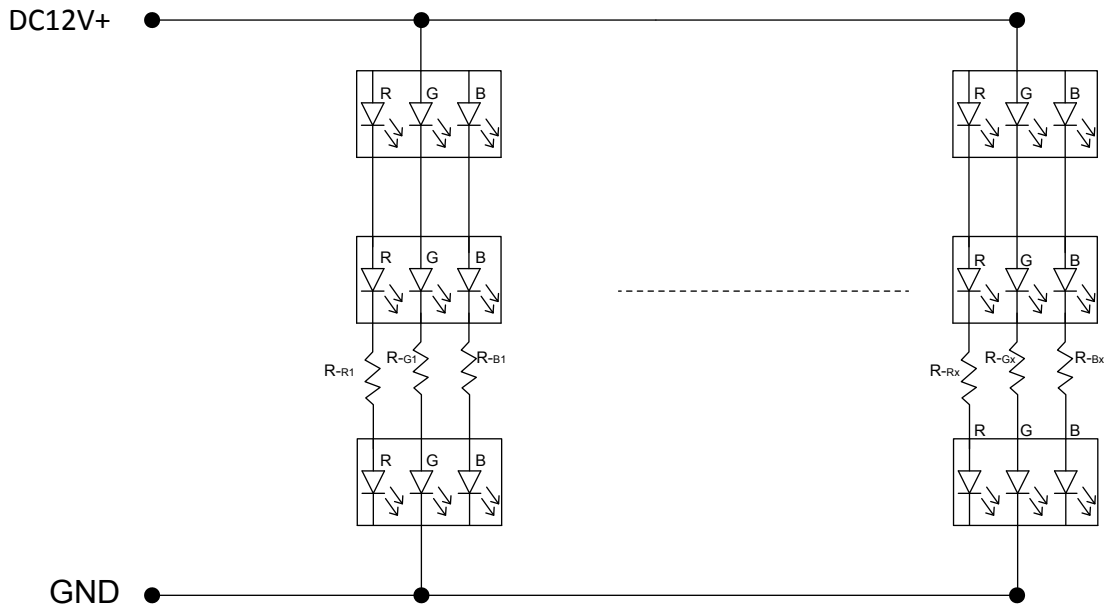
DC12V+



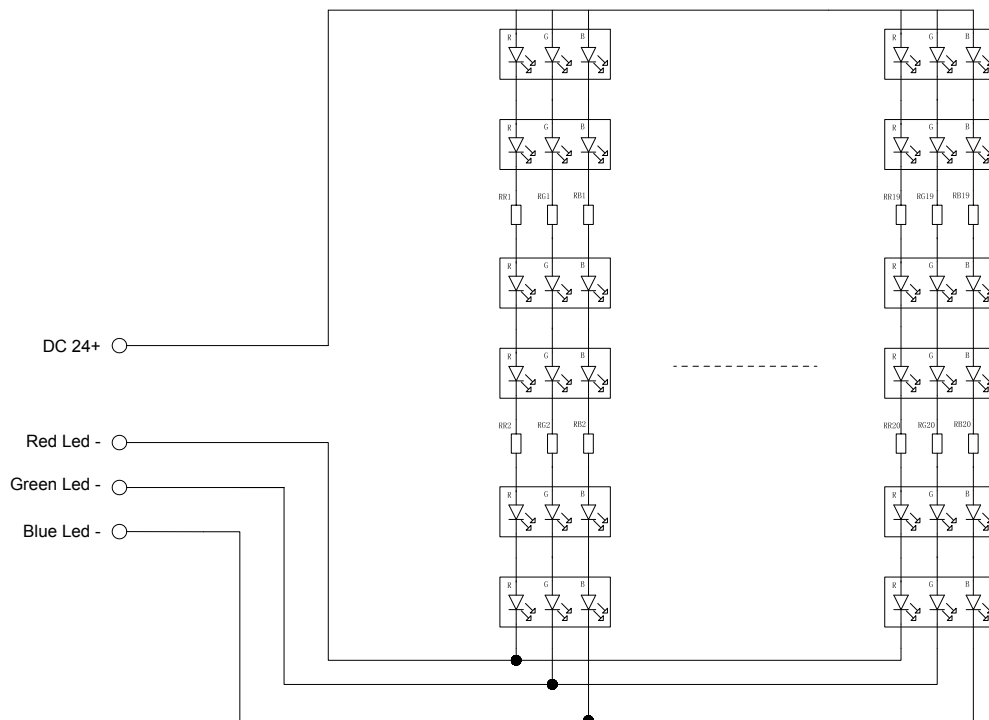
DC24V



RGB Color:



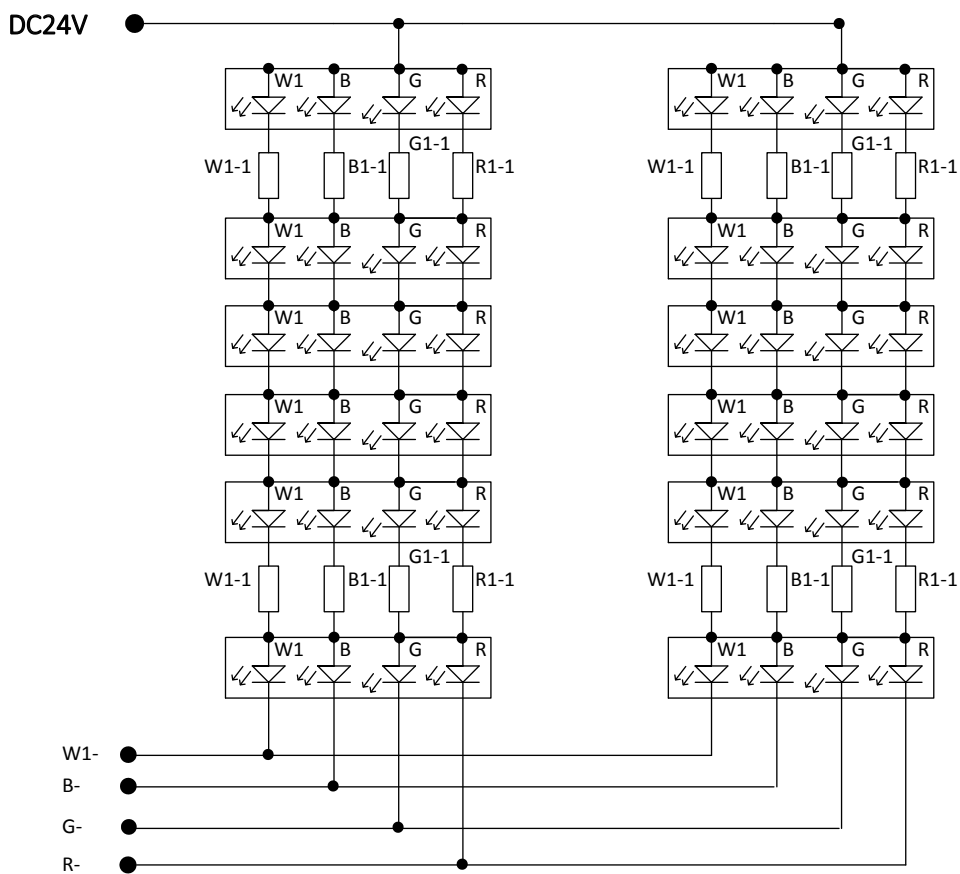
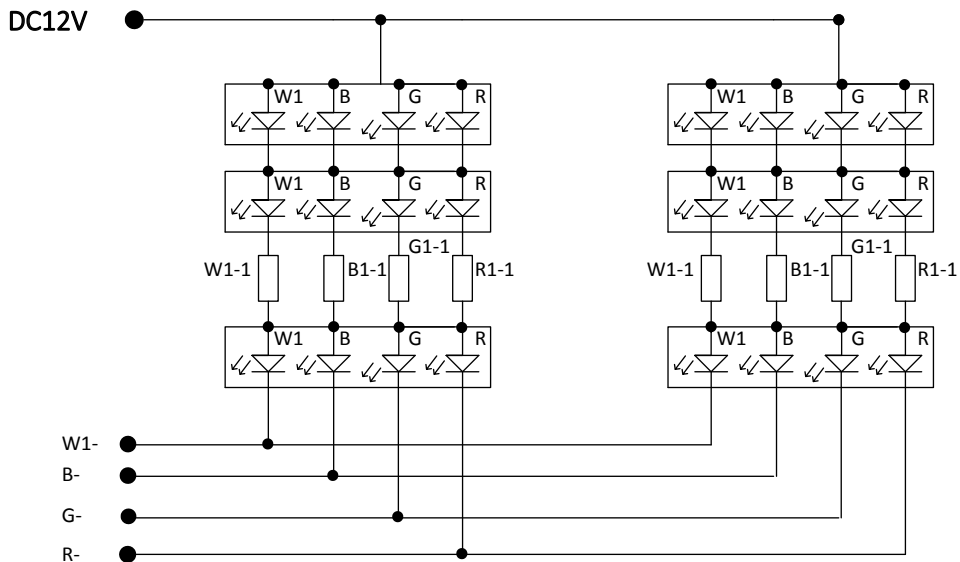
DC24V



AB-FB Rope Light Series

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RGBW Color:



AB-FB Rope Light Series

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Characteristics:

Table 1. Configurations for AB-FB Rope Light Series.

OPERATING VOLTAGE(V)	CURRENT(A/m)	POWER (W/m)	LENGTH m(inch)	LED COUNT/m
12	White/Green/Blue:0.87	10	5(197)	120
	Red/Amber:1.0	12		
	RGB:1.3	16		
	RGBW:1.5	18		
24	White/Green/Blue:0.435	10	5(197)	120
	Red/Amber:0.5	12		
	RGB:0.65	16		
	RGBW:0.75	18		

Table 2. Product performance of AB-FB Rope Light Series at T=25 degree C.

PART NUMBER	CCT/ WAVELENGTH	LUMINOUS FLUX** (lm/m)	LUMINOUS EFFICACY (lm/W)	CRI
AB-FB012KK-19712-8A1 AB-FB024KK-19712-8A1	30:3000K	630	63	>80
	40:4000K	660	66	
	63:6300K	680	68	
	RD: Red 620-625nm	180	18	X
	GR: Green 520-525nm	580	58	X
	BL: Blue 440-450nm	120	14	X
AB-FB01206-19712-XA1 AB-FB02406-19712-XA1	AM: Amber 558-592nm	240	20	X
	RD: Red 620-635nm	108	18	X
	GR: Green 520-525nm	290	58	X
	BL: Blue 440-450nm	70	14	X
AB-FB01208-19712-8A1 AB-FB02408-19712-8A1	RD: Red 620-635nm	108	18	X
	GR: Green 520-525nm	290	58	X
	BL: Blue 440-450nm	70	14	X
	27:2700K	490	60	>80
	30:3000K			
	40:4000K			
	50:5000K			
	65:6500K			

Note:

- Standard unit length: 5m or 10m/roll, for custom length, please contact aboc@americanbrightled.com
- KK – Color/CCT (27 – 2700K, 30 – 3000K, 40 – 4000K, 50 – 5000K, 65 – 6500K CCT, 06 – RGB)
- Luminous flux $\pm 10\%$ is allowed.

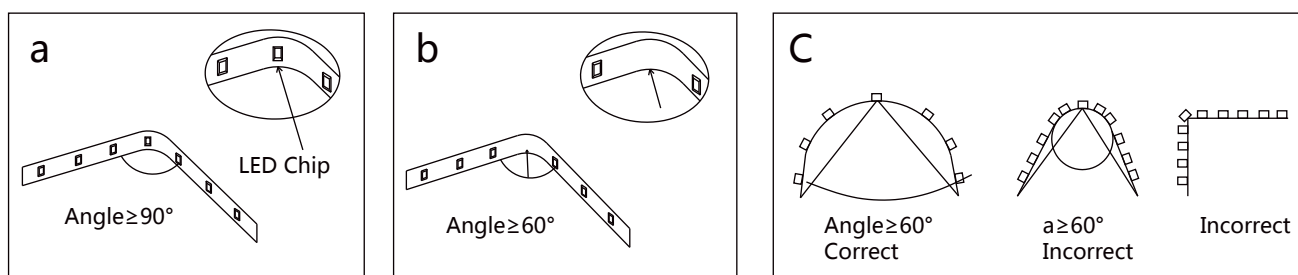
AB-FB Rope Light Series

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Table 3. Accessory list

Item	Size (mm)	Description	Compatible to	Image
AB-M-SS-10-12-L20	20x10x13	Silicon mounting bracket	AB-FF series	
AB-M-SI-RBLL-06	18.3x6x6	Silicon mounting bracket	AB-FA series AB-FC series AB-FD series	
AB-M-AL-20-09-1000	5000x15x10	Aluminum groove	AB-FB series	
AB-M-SS-18-08-L20	20x18x10	Stainless mounting bracket	AB-FB series	
AB-M-S-7-9-L7	7x6x12	Stainless mounting bracket	AB-FH series	

Installation Instructions:



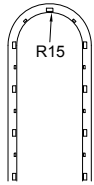
a: use an angle greater or equal to 90 degrees when there is an LED chip on the corner while placing the strip in a concave position (Angle $\geq$ 90degree)

b: use an angle greater or equal to 60 degrees when there is an LED chip on the corner while placing the strip in a concave position (Angle $\geq$ 60degree)

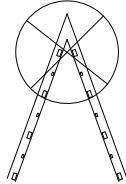
c: use an angle greater or equal to 60 degrees when there is an LED chip on the corner while placing the strip in a concave position (Angle $\geq$ 60degree) In the convex position the angle should not reach 90 degrees. See above diagram.

AB-FB Rope Light Series

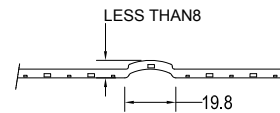
Maximum Flexibility Precaution



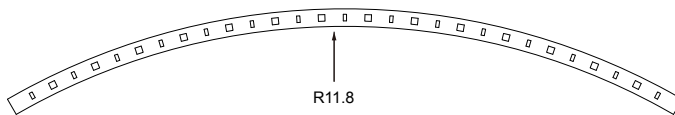
NOTE: DO NOT BEND TO A RADIUS OF LESS THAN 0.59 INCH



NOTE: SHARP BENDING ISN'T ALLOWABLE



NOTE: DO NOT AXIAL BEND TO THE HEIGHT OF MORE THAN 19.8mm WITHIN 0.78 INCH SEGMENT



NOTE: DO NOT HORIZONTAL BEND TO A RADIUS OF LESS THAN 18 INCH



NOTE: DO NOT TWIST MORE THAN 90° OVER THE LENGTH OF ONE 24v SEGMENT/ TWO 12v SEGMENTS (4" TOTAL LENGTH)

Product Packaging

Table 4. Packaging information

Model	QTY	Image
AB-FA series AB-FC series AB-FD series	1 roll/per ESD bag 10bags/carton	
AB-FB series AB-FF series AB-FH series	1 roll/per tray 10 tray/carton	

Note:

- 1.10 bags or tray/carton; QTY/bag varies per different unit lengths.
- 2.Standard unit length: 5m or 10m/roll, 1 roll/bag.

AB-FB Rope Light Series

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