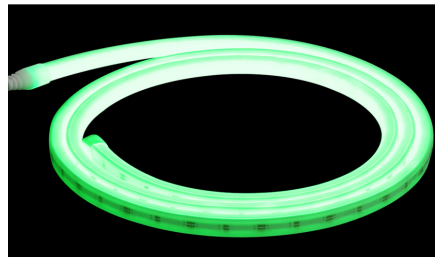
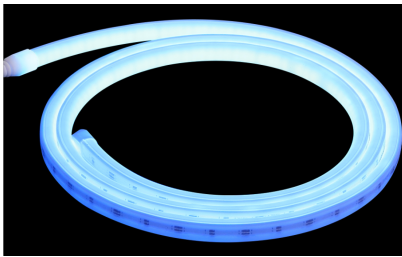
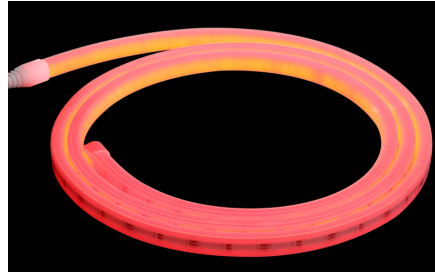




AB-FB Rope Light Series

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



Features:

- UL listed (#E353753)
- IP68 waterproof rating
- Top emitting, wide viewing angle 120°
- Environment temperature :-40°C~45°C
- Operating temperature -40°C~85°C
- Storage temperature -40°C~85°C
- Environment humidity 40-70%RH

Application:

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



AB-FB Rope Light Series



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:

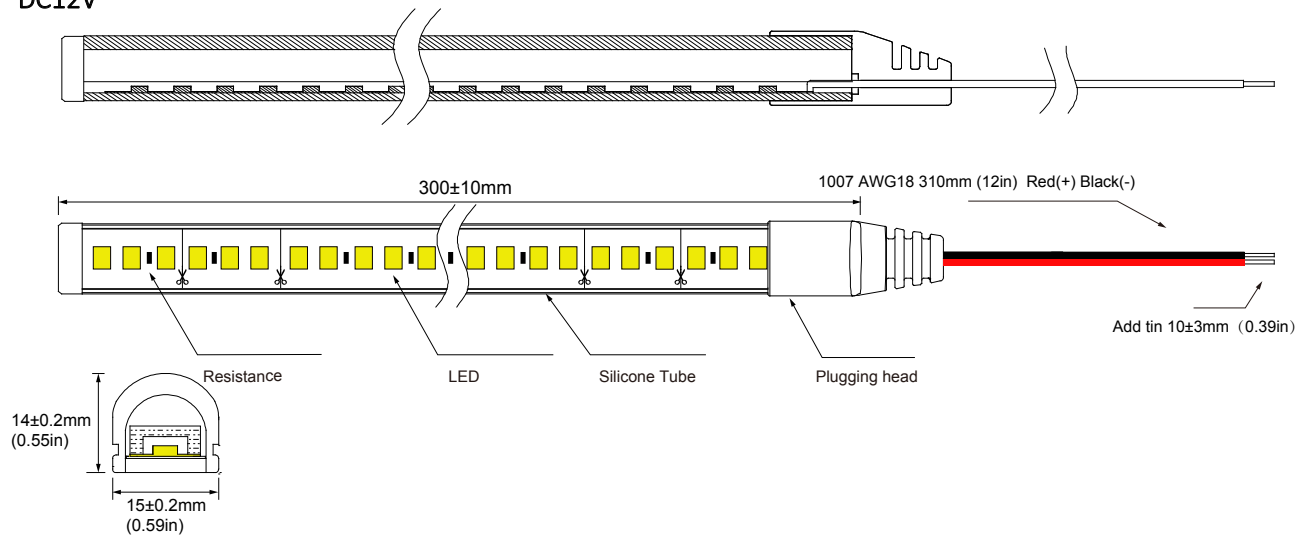
A B – F B 0 2430 – 1 9 7 1 2 – 8 A 1



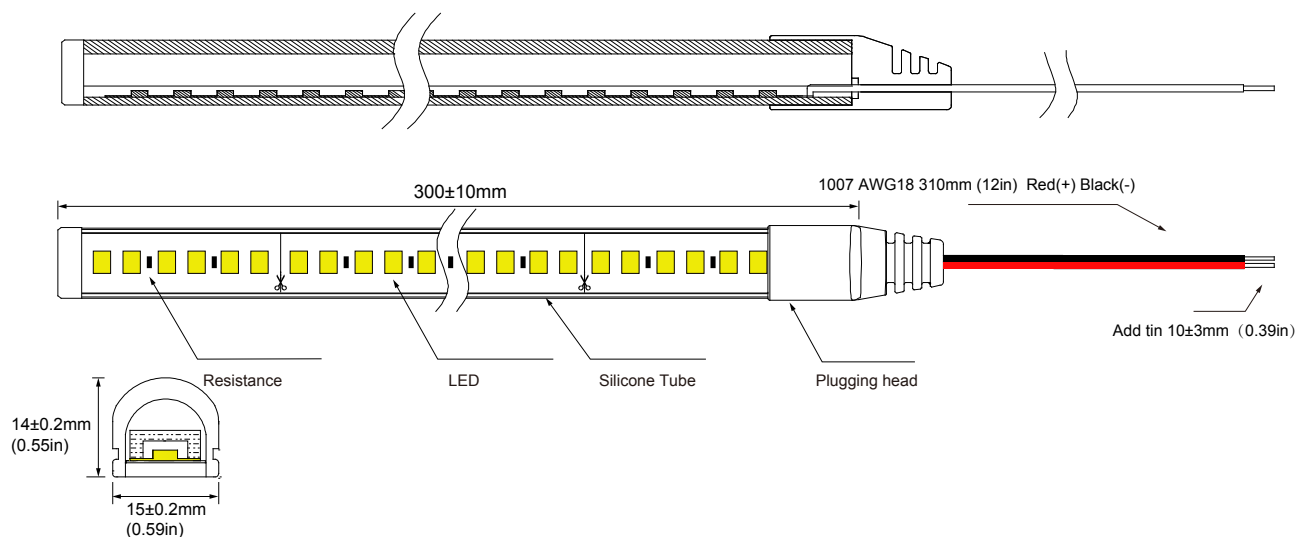
Outline Dimension:

Single Color:

DC12V



DC24V



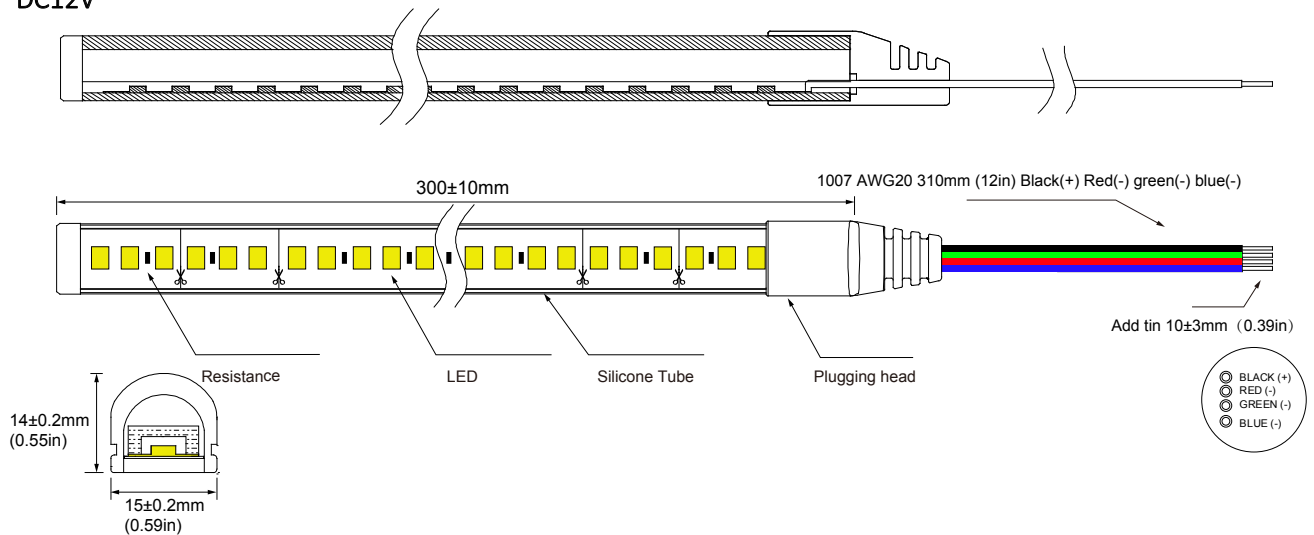
AB-FB Rope Light Series

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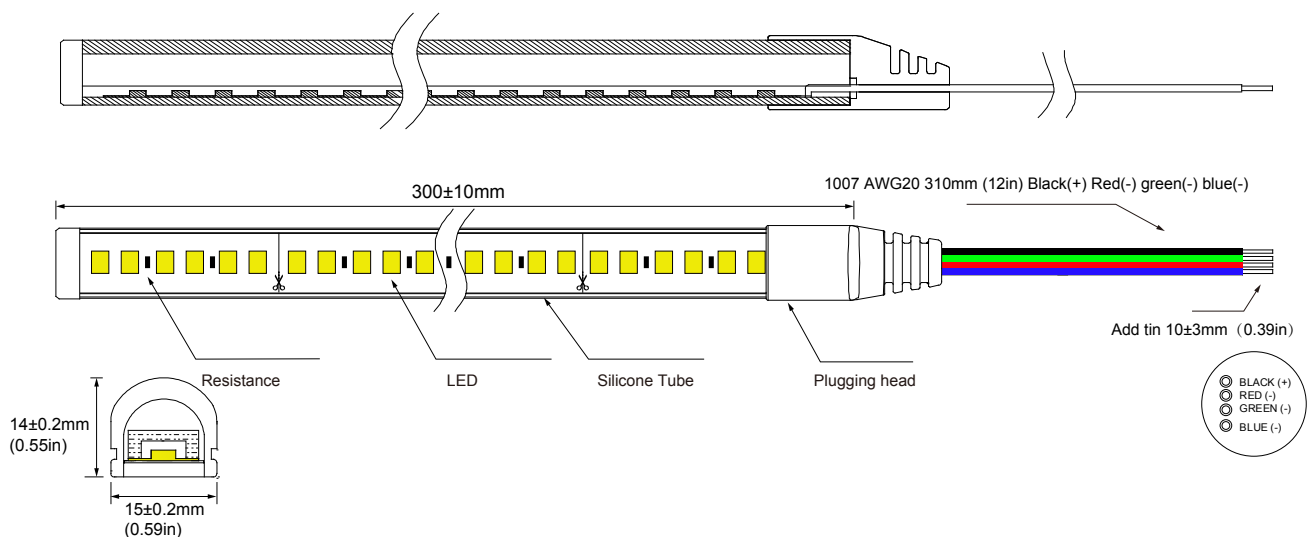


RGB Color:

DC12V



DC24V



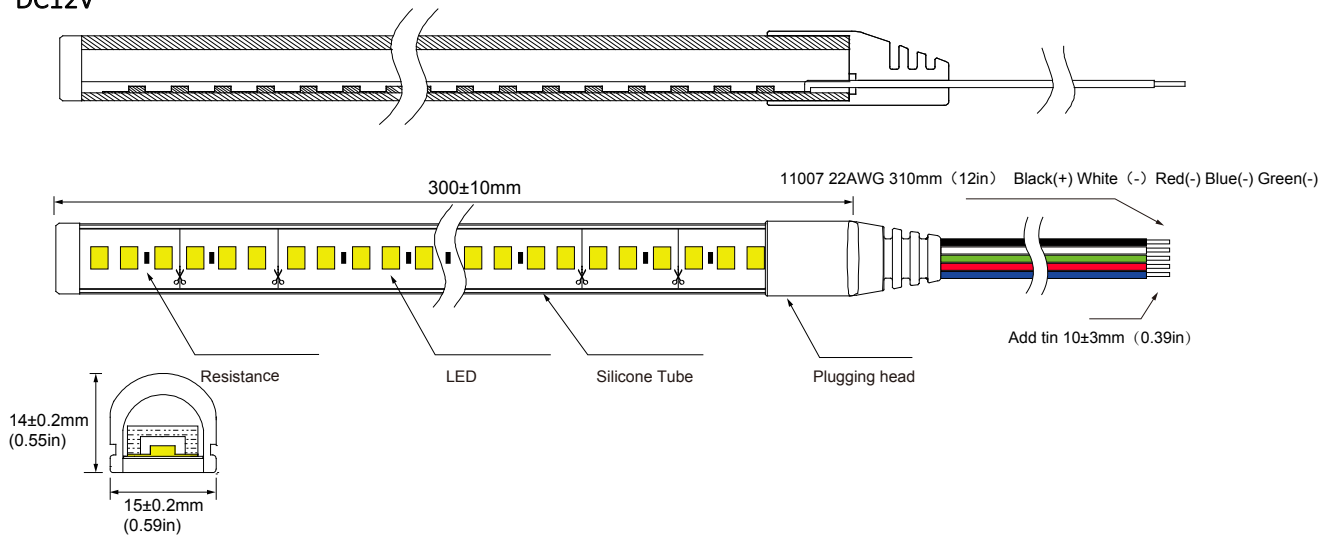
AB-FB Rope Light Series

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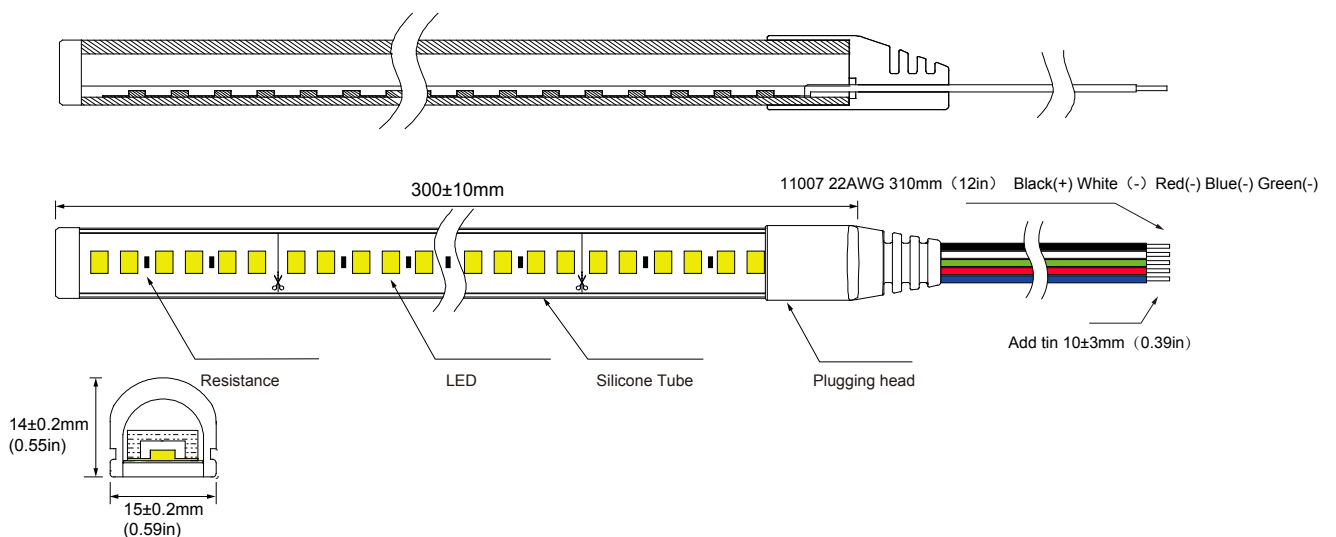


RGBW Color:

DC12V



DC24V



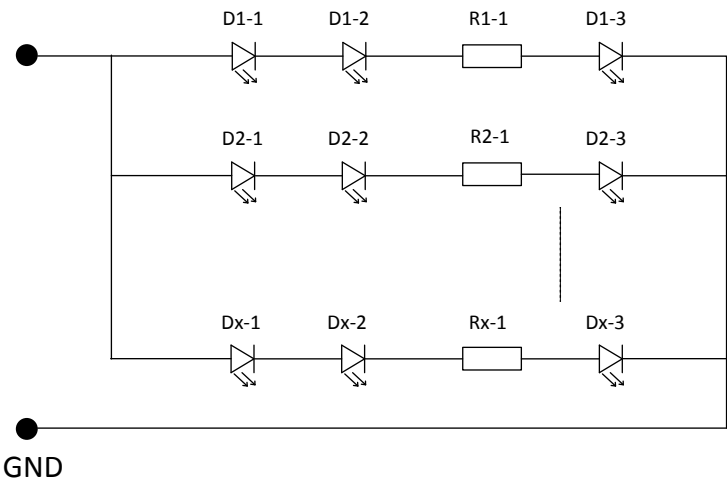
AB-FB Rope Light Series

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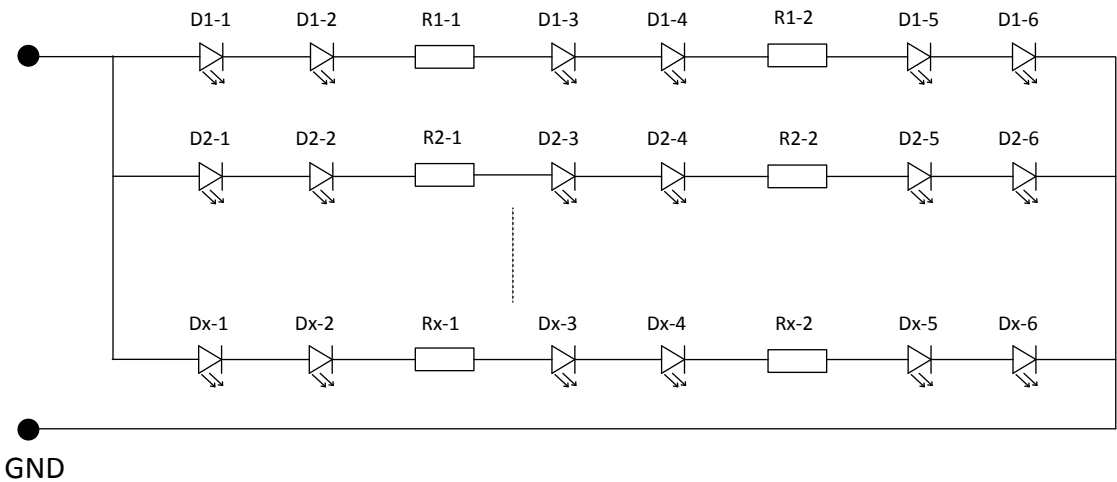
Schematic Diagram :

Single Color:

DC12V+

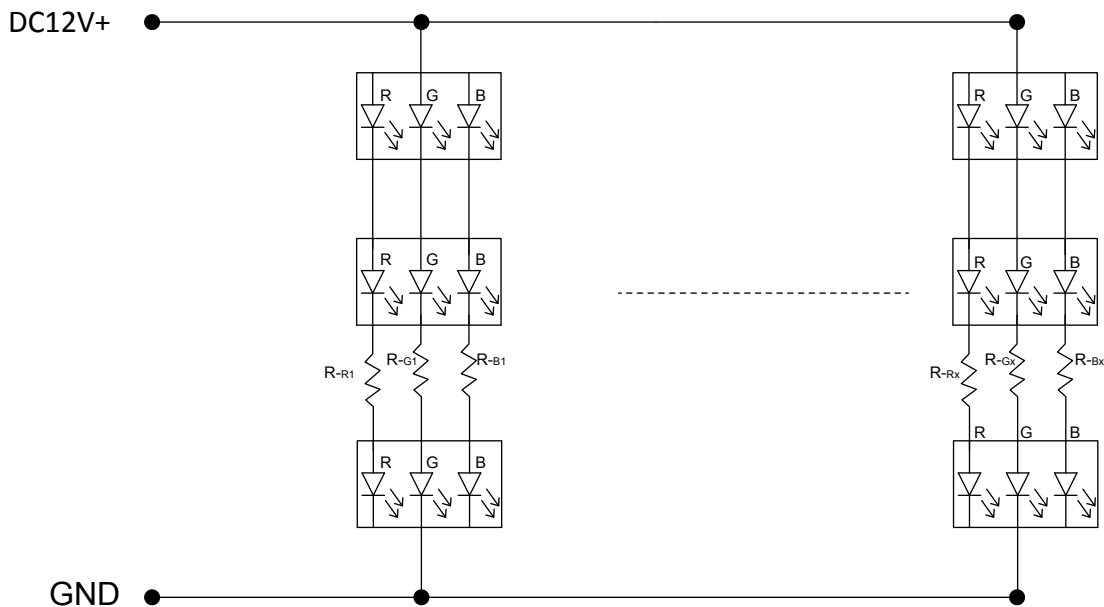


DC24V

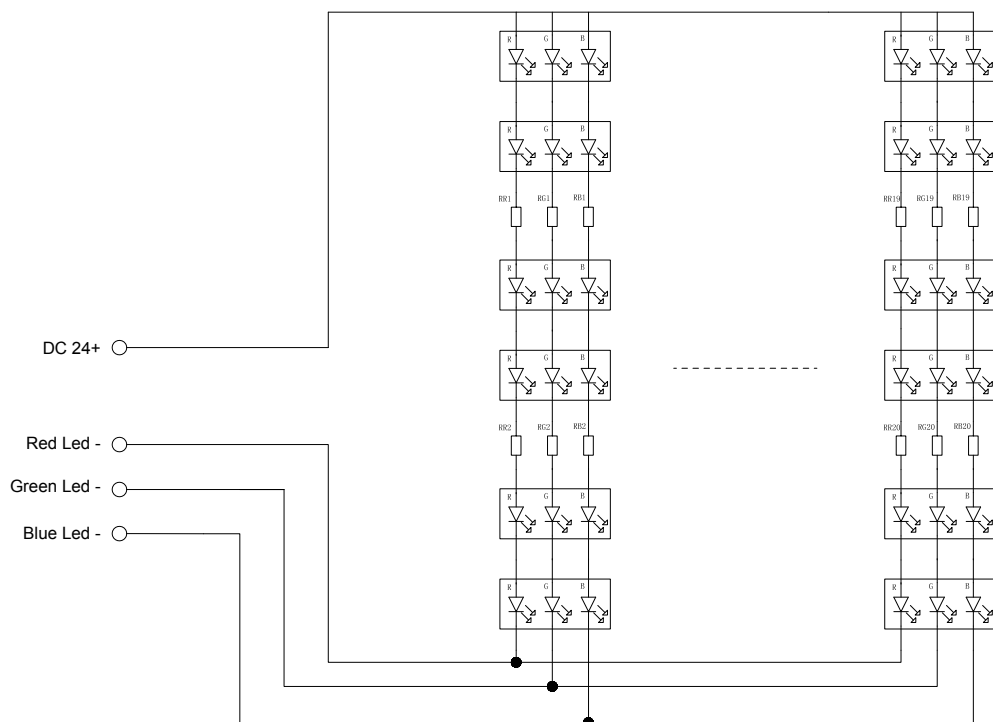




RGB Color:



DC24V



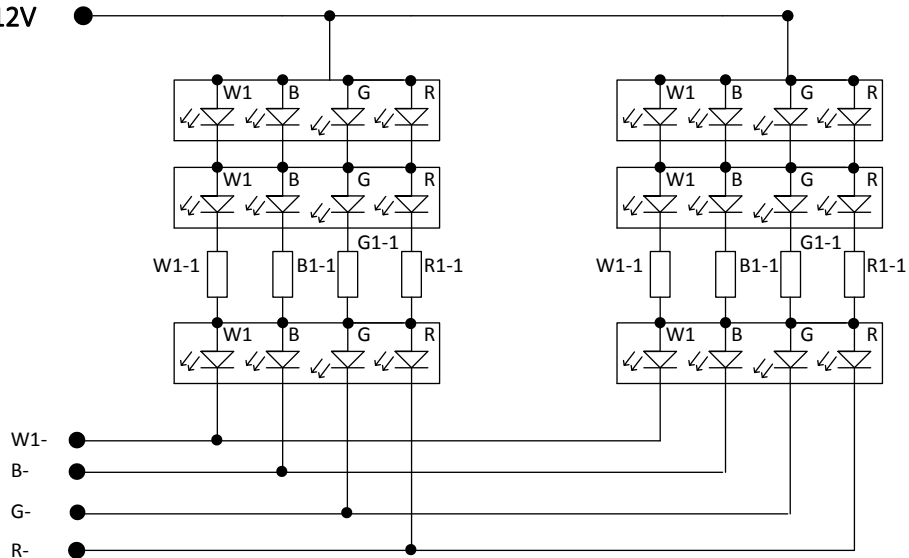
AB-FB Rope Light Series

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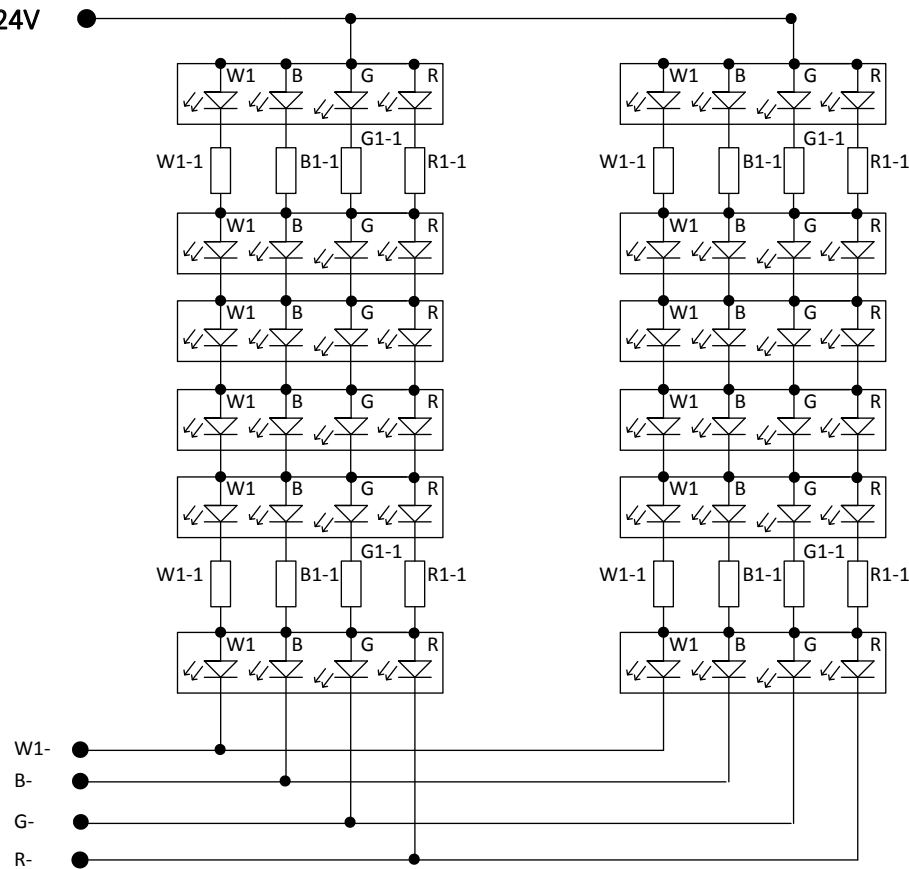


RGBW Color:

DC12V



DC24V



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/12in)	LENGTH m(inch)	LED COUNT/in
12	White/Green/Blue:0.25	3	0.3/12in	36/12in
	Red/Amber:0.33	4		
	RGB:0.43	5.2		
	RGBW:0.5	6		
24	White/Green/Blue:0.13	3	0.3/12in	36/12in
	Red/Amber:0.16	4		
	RGB:0.22	5.2		
	RGBW:0.25	6		

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-19712-8A1S AB-FB024KK-19712-8A1S	30:3000K	189	63	>80
	40:4000K	189	66	
	63:6300K	189	68	
	RD: Red 620-625nm	72	18	X
	GR: Green 520-525nm	174	58	X
	BL: Blue 440-450nm	42	14	X
	AM: Amber 558-592nm	80	20	X
AB-FB01206-19712-XA1S AB-FB02406-19712-XA1S	RD: Red 620-635nm	--	18	X
	GR: Green 520-525nm	--	58	X
	BL: Blue 440-450nm	--	14	X
AB-FB01208-19712-8A1S AB-FB02408-19712-8A1S	RD: Red 620-635nm	--	18	X
	GR: Green 520-525nm	--	58	X
	BL: Blue 440-450nm	--	14	X
	27:2700K	--	60	>80
	30:3000K			
	40:4000K			
	50:5000K			
	65:6500K			

Note:

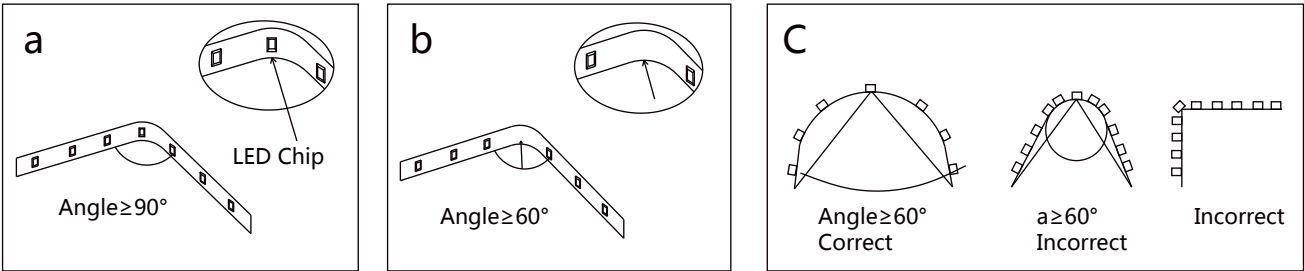
- Standard unit length: 5m or 10m/roll, for custom length, please contact aboc@americanbrightled.com
- KK – Color/CCT (27 – 2700K, 30 – 3000K, 40 – 4000K, 50 – 5000K, 65 – 6500K CCT, 06 – RGB)
- Luminous flux $\pm 10\%$ is allowed.

AB-FB Rope Light Series

Table 3.Accessory list

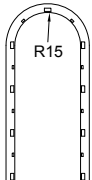
Item	Size (mm)	Description	Compatible to	Image
AB-M-SS-10-12-L20	20x10x13	Silicon mounting bracket	AB-FF series	
AB-M-SI-RBLL-06	18.3x6x6	Silicon mounting bracket	AB-FA series AB-FC series AB-FD series	
AB-M-AL-20-09-1000	5000x15x10	Aluminum groove	AB-FB series	
AB-M-SS-18-08-L20	20x18x10	Stainless mounting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

Installation Instructions:

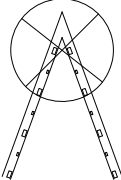


- a: use an angle greater or equal to 90 degrees when there is an LED chip on the corner while placing the strip in a concave position (Angle≥90degree)
- b: use an angle greater or equal to 60 degrees when there is an LED chip on the corner while placing the strip in a concave position (Angle≥60degree)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

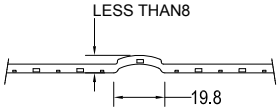
Maximum Flexibility Precaution



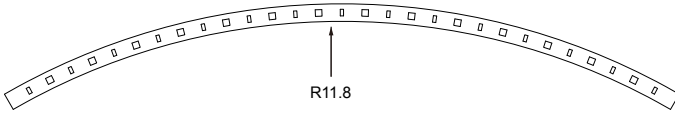
NOTE: DO NOT BEND TO A RADIUS OF LESS THAN 0.59 INCH



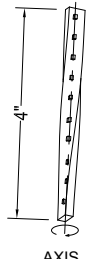
NOTE: SHARP BENDING ISN'T ALLOWABLE



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



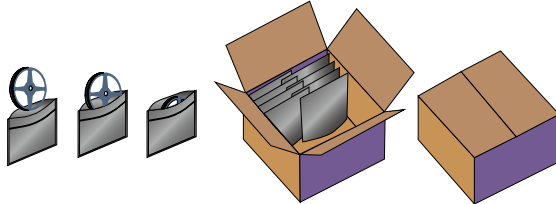
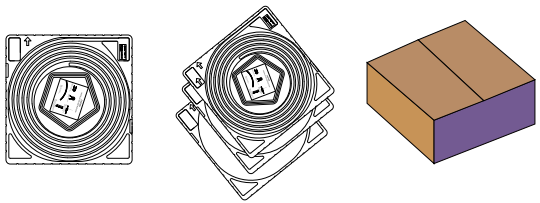
NOTE: DO NOT HORIZONTAL BEND TO A RADIUS OF LESS THAN 18 INCH



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.
- 1.Standard unit length: 5m or 10m/roll, 1 roll/bag.

AB-FB Rope Light Series

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