

AB-FH005I4-11812-XA5S

5V DC, addressable flexible light strip and rope light



Features:

- UL listed
- IP68 waterproof rating
- Top emitting, wide viewing angle 120°
- Operating temperature -40°C~80°C
- Storage temperature -40°C~85°C
- Environment humidity 40-70%RH

Application:

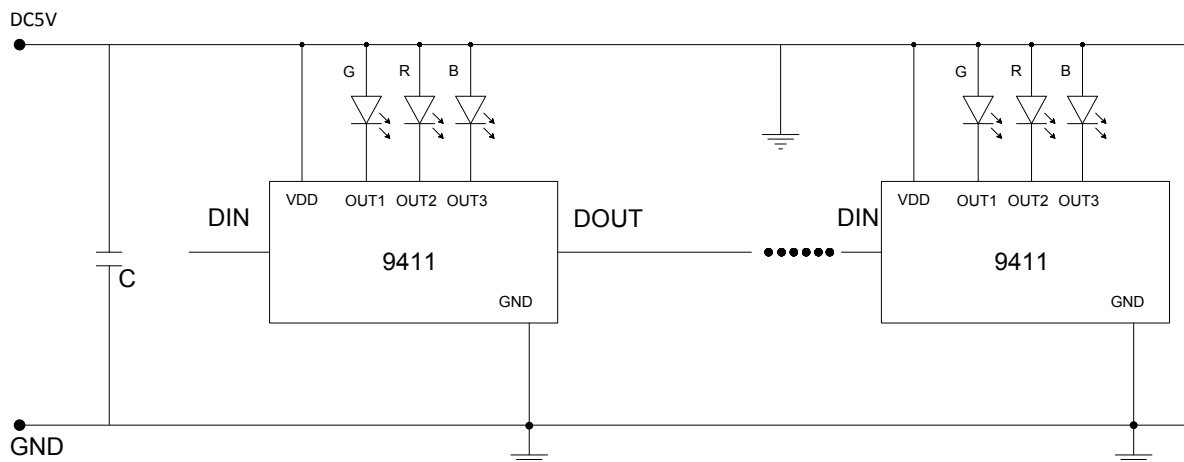
- Conference/meeting rooms
- Hospitals
- Commercial/ residential buildings
- ReEntertaining lighting
- Hotels



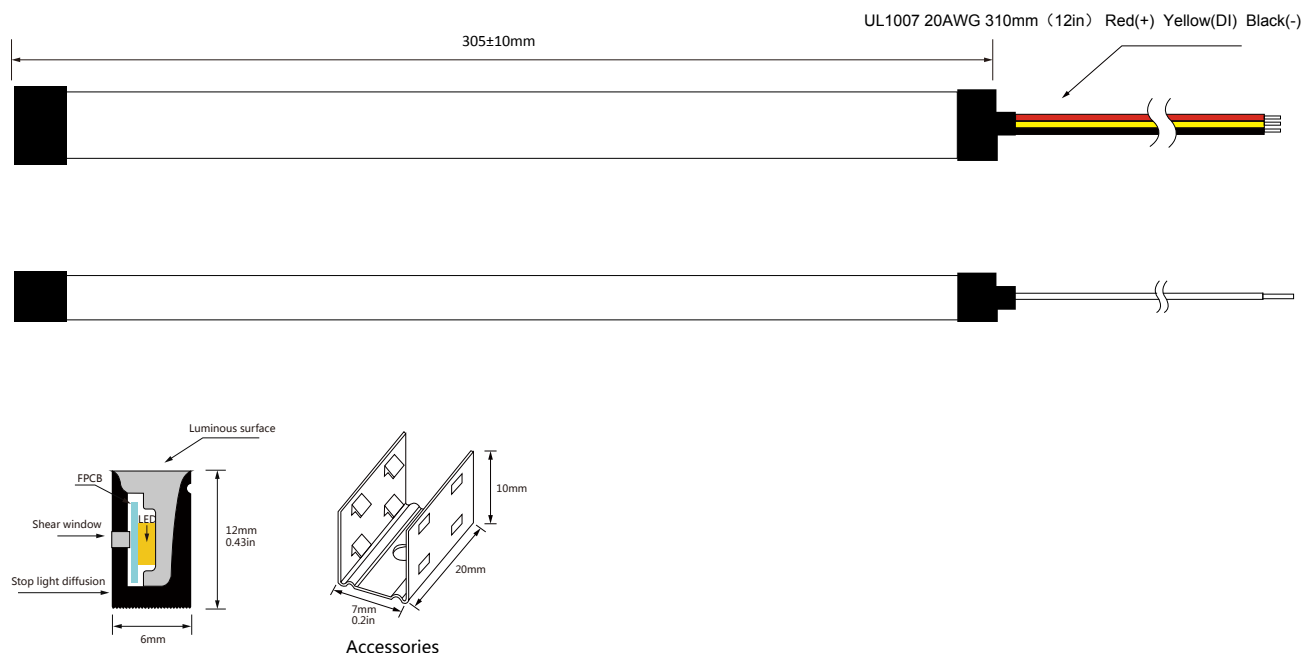
Product performance parameter:

Serial number	Partnumber	Colour	nm	LED TYPE	Light Angle	QTY/M (39.3in)	Luminous flux(LM/pcs	working voltage (5V)/IF(A)	Rated power (W/pcs	Waterproof grade
1	AB-FH005I4-11812-XA5S	RED	620-630nm	3525	90degree	90LED	--	5V/0.32A	1.6W	IP68
		Blue	624-470nm					5V/0.32A	1.6W	
		Green	520-535nm					5V/0.32A	1.6W	

Schematic diagram:



Outline Dimension:



NOTE:

1. MATERIAL: SILICONE, DUROMETER: SHORE A 60~65 OR EQUAL MATERIAL
2. UNIT: MM(IN)
3. COLOR: WHITE

Technical Specs for the LED with built-in driver:

WES3528RGB-P9411F is an intelligent external controlled LED light source integrating control circuit and luminous circuit.

Its appearance with a 3528LED. The lamp bead is the same, each element is a pixel point. The pixel contains an intelligent digital interface data locking signal shaping and amplifying drive. Dynamic circuit, power supply voltage stabilizer circuit, built-in constant current circuit, high precision RC oscillator, output drive using patented PWM technology, effective protection. The color consistency of pixel point luminescence is proved.

Features:

- Control circuit and RGB chip in SMD 3528 packages
- Single-Wire Interface for line data transmission
- Gray scale adjustment circuit (256 gray level adjustable);
- Data Transfer Maximum Rate: Bits per Second (bps): up to 800 kbps,

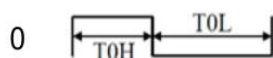
**Absolute maximum ratings:**

Absolute maximum ratings at Ta=25℃

Parameter	Symbol	Value	Unit
Power Supply Voltage	VDD	3.3-5	V
LED voltage	VLED	3.4-4	V
PWM frequency PWM	PWM	1.6	KHZ
Max output current	Iomax	12	mA
Power dissipation	Pd	<350	mW
Reverse voltage	Vr	4	V
Operating temperature range	Top	-20~80	℃
Storage temperature range	Tstg	-40~100	℃

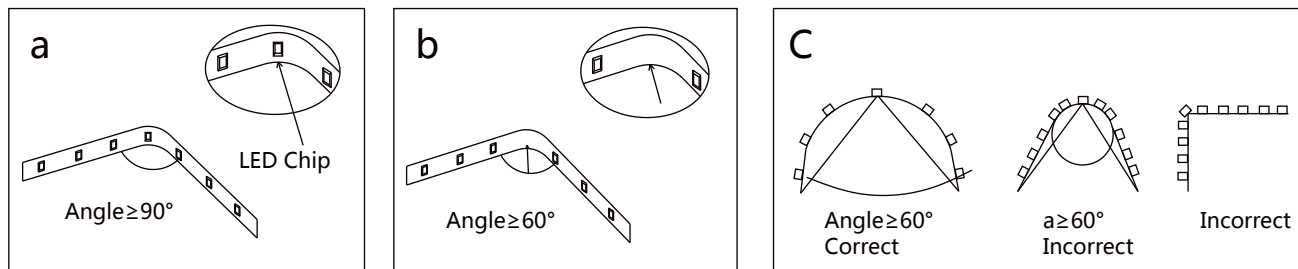
Communication Protocol and Sequence:

Input Code:

**The data transmission time:**

Symbol	Description	Typ	Error value
T0H	0 code, high level time	0.25μS	±75nS
T1H	0 code, low level time	1μS	±75nS
T0L	1 code, high level time	1μS	±75nS
T1L	1 code, low level time	0.25μS	±75nS
TRES	Reset code, low level time	50μS	>0μS

Installation Instructions:

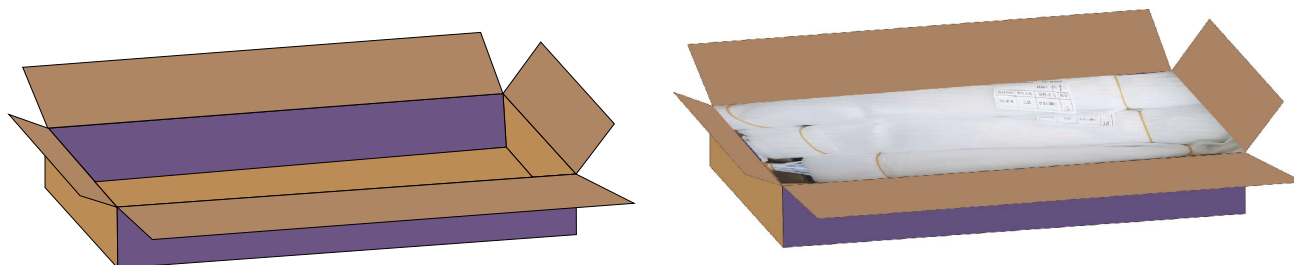


a: use an angle greater or equal to 90 degrees when there is an LED chip on the corner while placing the strip in a concave position (Angle $\geq$ 90degree)

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.

Product Packaging



Model	Part number	box(pcs)	Net Weight/box	Gross Weight/box
1	AB-FH005I4-11812-XA5S	50pcs		