

**Shenzhen Allcoola Lighting Factory**

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## RA90 High Density COB Flex LED Strips

**Fast lead time at 48 hours for order quantity < 1000 meters**

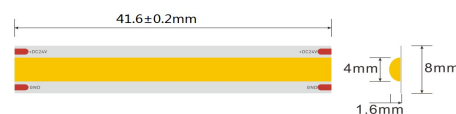
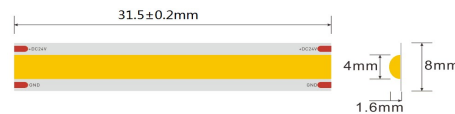
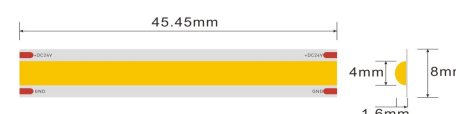
RA90 High Density 384led/m COB Flex LED Strips



RA90 High Density 512led/m COB Flex LED Strips



RA90 High Density 528led/m COB Flex LED Strips

**384led/m COB Flex LED Strips****512led/m COB Flex LED Strips****528led/m COB Flex LED Strips**

### 1. Electrical / Optical characteristics(45mm)

Item	Symbol	Absolute Maximum Rating	Unit
Forward Voltage	IF	24	V
Pulse Forward Current	IFP	20 (For 384led/m)   15 (For 512led/m)   20 (For 528led/m)	mA
Allowable Reverse Current	IR	85	mA
Power Dissipation	PD	500 (For 384led/m)   700 (For 512led/m)   500 (For 528led/m)	mW
Operating Temperature	Topr	-20 ~ +70	°C
Storage Temperature	Tstg	-20 ~ +70	°C
Dice Temperature	Tj	85	°C
Soldering Temperature	Tsld	Reflow Soldering : 250°C Hand Soldering : 300°C	for 10sec. for 3sec.

\* The above measurements of watts, brightness and efficiency allowance tolerance  $\pm 10\%$ .

\* The above measurements are based on IP20.

### 2. Optical Characteristics (TA=25°C)

Item	Units	384led/m	512led/m	528led/m
LED Chip/Meter	PCS/M	384	512	528
Ra	-	90		
Color temperatures	K	White 2800K-6500K, Red, Green, Blue, Purple, Pink, or customized color		
Forward Voltage	V	23-25		
Power	W/M	10.0-12.0	9.8-10.0	10.0-12.0
Viewing Angle	°	180°		
Luminous Intensity	LM/M	800-1100	900-1200	1000-1200
Efficiency	LM/W	80-110	90-120	100-120
Size	mm	L1000 x W8 x H1.6	L1000 x W8 x H1.6	L1000 x W8 x H1.6
Min. cut length	MM	41.6	31.5	45.45
Lifespan	Hours	50000		

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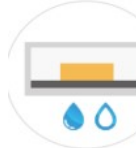


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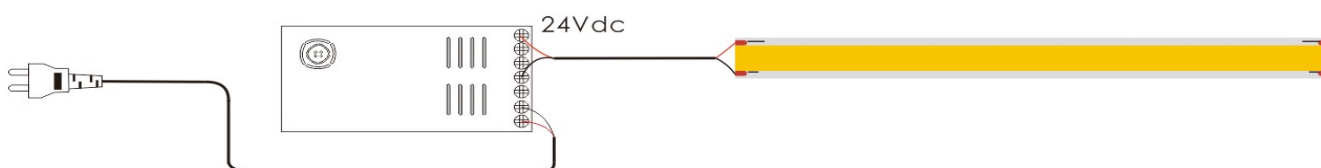
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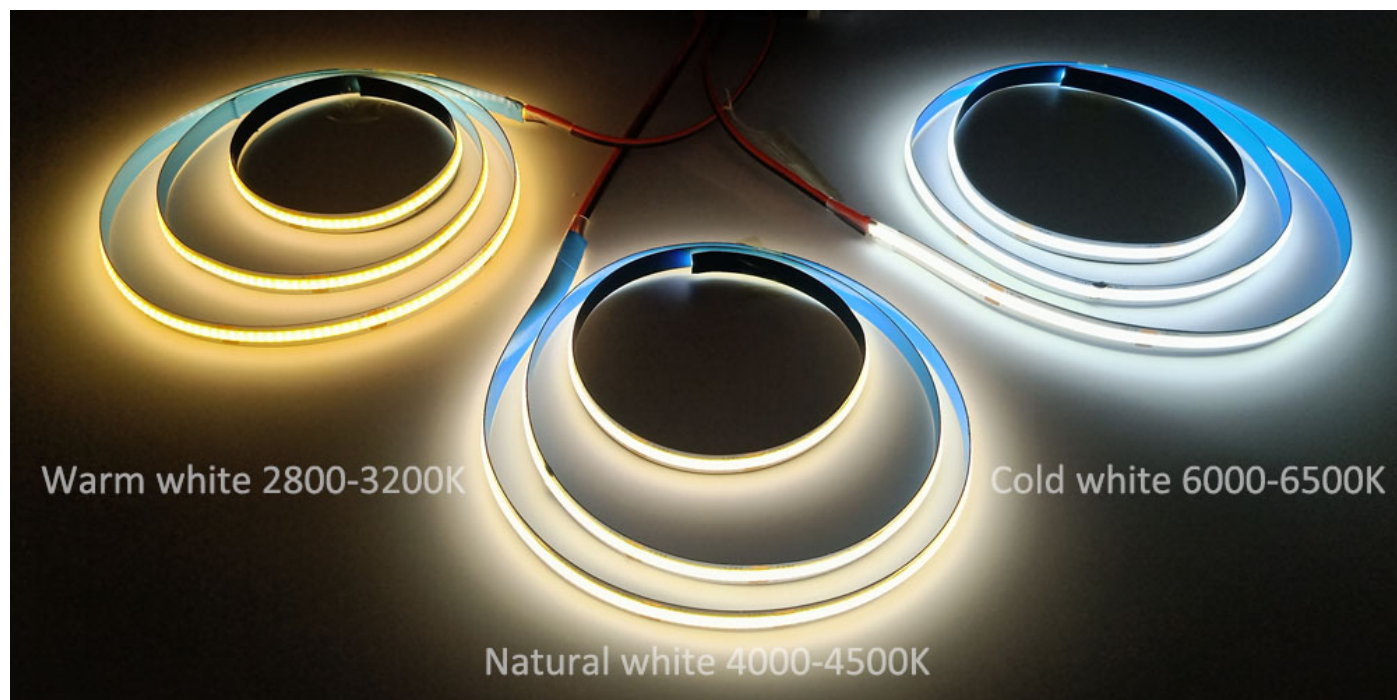
### 3. Waterproof Ways

			
IP54	IP65	IP67	IP68
PU or Silicone glue on the surface of the led strips.	Injected with Silicone Tube	IP67 Extrusion, Integrated Silicone	Solid Integrated Silicone glue, or silicone glue with silicone tube

### 4. Installation Ways



- \* The max running length is 6 meters, for over 6 meters please connect in parallel.
- \* Make sure of the total watts of COB Strip lights is less than 80% of the power supply's max output.
- \* Match the polarities according to the mark ('+' and '-') in the PCB while connecting.



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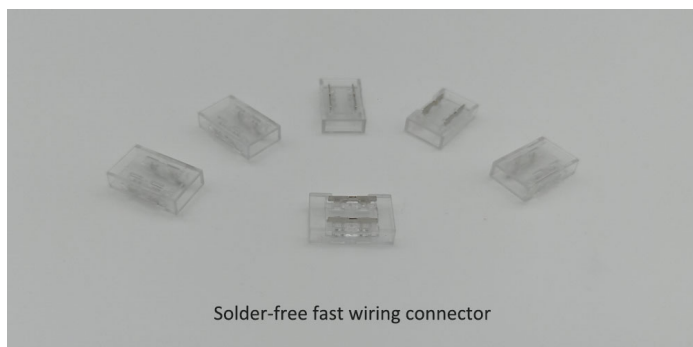
## 5. Applications

- 1) Residential lighting,
- 2) Hotels, KTV and other places of entertainment decorative lighting.
- 3) Furniture decoration lighting
- 4) Display cabinet, jewelry cabinet counter lighting
- 5) Lighting of concealed parts of corridor stairs

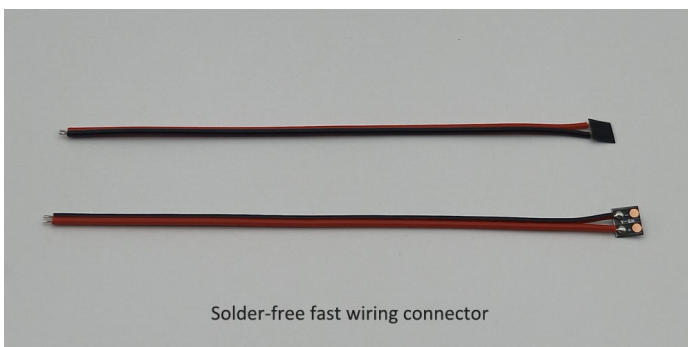
## 6. Features

- 1) Widely used, easy to install and maintain, long service life
- 2) Very flexible, easy to bend into different shapes, various white light options
- 3) COB Design, with more chips on PCB, more even light.
- 4) Up to 528 chips on 1 meter PCB.
- 5) Cuttable. Form a circuit without affecting other circuits.
- 6) Efficiency up to 120Lm/W.
- 7) Ra 90 High Color rendering index.
- 8) Can be customized according to customer requirements

## 7. Solder-free fast wiring connectors:



Solder-free fast wiring connector



Solder-free fast wiring connector

## 8. Free samples are available on request:



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