

# LED Flex Ribbons



## Product Description

These products are in accordance with CE, UL, and FCC testing standards. LED Ribbons are flexible, slim, high brightness LED light strips with the advantage of low power consumption, energy saving, full heat dissipation, and eco-friendly. Both RGB and single colors are available to meet different lighting requirements. Small size and cool light output makes them be ideal for a wide range of applications, such as cove lighting, back lighting, decorative lighting, stair lighting, channel letter lighting, home theater, automotive and coach and other narrow area lighting.

## Performance Summary



Utilize top SMD 3528 or 5050 LEDs  
Long lifetime up to 50,000 hours  
IP65 degree, ideal for indoor application  
Color temperature tolerance of only  $\pm 300K$   
Designed to last 50,000 hours and maintains at least 98% of initial lumen output at 1,000 hours  
Integrated thermal management system conducts heat away from LED's and transfer it to surrounding environment  
Low power consumption, energy saving  
Two Year Warranty

## Unique Edges

Flexible and slim  
Easy installation with 3M double-sided sticking tape  
Waterproof and submersible  
Fully heat dissipation  
Fully RoHS-compliant

No RF, IR and UV interference  
Instant start-up  
Minimum maintenance costs  
Safe and stable with low voltage (12VDC)  
No mercury and other hazardous material  
Consistent color temperature



## Data sheet and Specifications for 1210 Series 5000mm LED Ribbons

Color	Wavelength (nm)	LED Qty	LED Type	Light Output(mcd)	Light Output(lm)	Beam Angle (degree)	Voltage (V DC)	Current (Amps)	Max Power Consumption (W)
Red	625-630 nm	300	Top SMD	300*700	450	120	12	1.7-2	24
Yellow	590-595 nm			300*700	450				24
Blue	465-470 nm			300*750	300				28
Green	520-525 nm		3528	300*750	500				28
White	6,000-7,000K			300*1900	600				28
Yellow	3,000-3,500K			300*1000	450				28
RGB		150	Top SMD LED	300*1000	625			2.6-3	36

## Data sheet and Specifications for 1210 Series 3000mm LED Ribbons

Color	Wavelength (nm)	LED Qty	LED Type	Light Output(mcd)	Luminous Flux	Light Output(lm)	Beam Angle(degree)	Voltage(V DC)	Current(Amps)	Max Power Consumption (W)
Red	625-630 nm	90	Super Intensity	90*1000	3.9	351	120	12	1.7-2	14.4
Yellow	590-595 nm			90*1000	3.9	351				14.4
Blue	465-470 nm			300*750	3.3	297				125.2
Green	520-525 nm		LED (3 Chips)	90*3600	15	1300				25.2
White	6,000-7,000K			90*4900	15	1300				25.2
Yellow	3,000-3,500K			90*4500	15	1300				25.2
RGB				90*1900	5.4	486			2.6-3	21.6

## Physical Specification

Mercury-free, no other hazardous material

Dimension: 3000mm LED Ribbons  
(L3000mm\*W10mm\*H2mm for non-waterproof models, L3000mm\*W12mm\*H4mm for waterproof models)

Min Length: 0.5 meter each segment  
Max Length: The length can be made as request, 3 meter and 5 meter are ideal to avoid voltage loss  
Operating Temperature: -20°C to 40°C (-4°F to 104°F)

## Electrical specifications

Operating Voltage: 12V DC

Operating Current: 1.7-2 A for single colors, 2.6-3 A for RGB color

Power Consumption: 14-36W depending on different models  
CE (LVD and EMC), ETL pending

Power factor > 0.95  
Power efficiency > 86%

## Optical specifications

Negligible UV, IR and RF  
LED Quantity: 30pcs LEDs each meter or 60pcs LEDs each meter  
Beam Angle: 120°  
Color Temperature: Warm White (3,000-3,500K), White (5,500-6,500K), Cool White (above 10,000K)

Light Source: top SMD LEDs  
Color Range: Red, Yellow, Blue, Green, White and RGB  
Lumen Maintenance: >98% @ 1,000 hours  
Color management system maintains color consistency over time and temperature