
AMAZ LIGHT
Strip light & Neon Flex brochure
2025
Brochure
Linear light, Flexible Neon Strips

Index

Lighting Solution Process

1	Output Mode		Single color Tunable warm white and cold white Dynamic RGB
2	Brightness		Below 6W/meter for Auxiliary lighting 9.6-14.4W/meter for Ambient Mood Lighting Over 18W/meter for Bright Work Lighting
3	Color Rendering		High CRI makes the illuminated object look more real
4	Waterproof		IP 20 for Indoor humid resistance level IP 65 for Outdoor moisture resistance IP 67 for Outdoor rainproof grade IP 68 for Submerge series
5	Power Adapter		Long strip power supply for plaster ceiling Waterproof power supply for outdoor scenes Intelligent controller for light strips with IC control circuit Compensated power supply for reduce voltage drop
6	Install Option	Mounting	Self-adhesive for open spaces Heat-dissipating adhesive for aluminum profile Foam tape for mounting heavier waterproof type
		Connecting	Solder + Wire Connectors
7	Controllers		Ordinary switch Dimmer switch Remote control APP control DMX control

Static White

Architectural Series

Technical Data

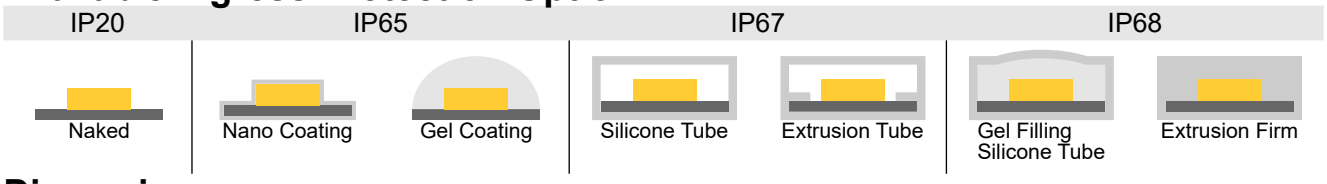
LED Chips:	Optimized 2835 Package LED
Color Rendering Index:	High CRI up to 90
Luminous Efficacy:	120 lm/W
Color Consistency:	3-Step MacAdam
Dimming:	Fully Dimmable
Beam Angle:	120°
FPC:	2 oz Copper Foil
Mounting Method:	Thermally Resistant 3M VHB Adhesive
Package:	Aluminum Foil Sealing Bag
Ambient temperature:	-20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy:	>50,000 Hours
Energy Efficiency:	Class F

Custom Structures and Electrical Data

Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
2200K 2500K 2700K	12V	120	8.3	25	3	14.4	1700	5	8
		192	5.2	21	3	17.3	2100	5	10
3000K 4000K 5000K 6000K	24V	120	8.3	50	6	14.4	1700	10	8
		140	7.1	50	7	16.8	2100	9	10

As the heating generated, it is recommended to mount strips above 16W into a properly dissipating aluminum profile. Specifications in the table can be customized.

Available Ingress Protection Option



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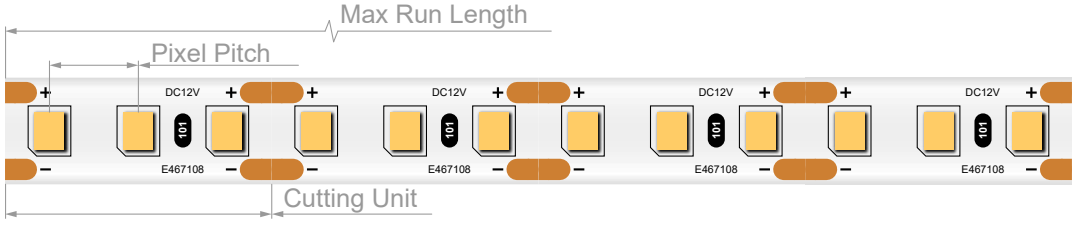
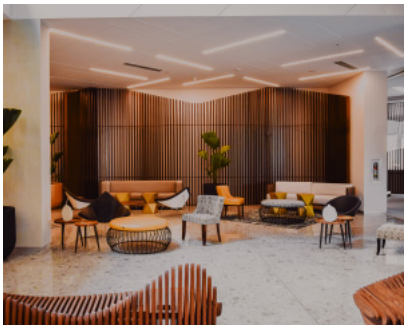
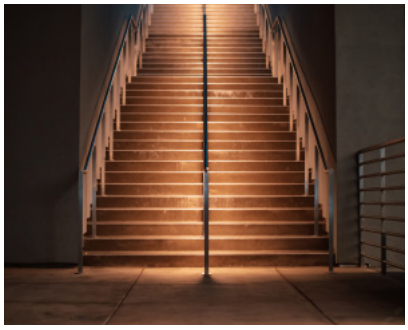


Applications





Ultra Bright Series

Technical Data

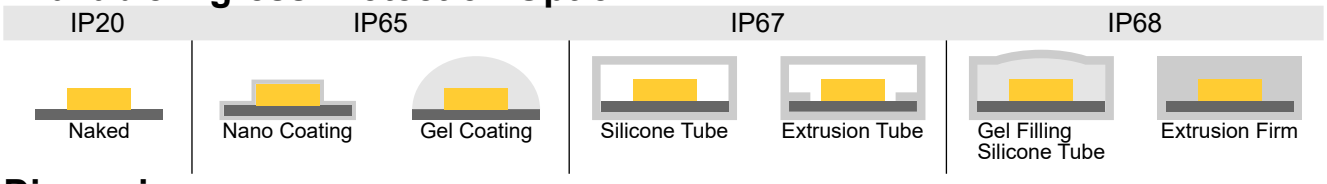
LED Chips: Optimized 2835 Package LED
Color Rendering Index: High CRI up to 90
Luminous Efficacy: 150 lm/W
Color Consistency: 3-Step MacAdam
Dimming: Fully Dimmable
Beam Angle: 120°
FPC: 2 oz Copper Foil
Mounting Method: Thermally Resistant 3M VHB Adhesive
Package: Aluminum Foil Sealing Bag
Ambient temperature: -20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy: >50,000 Hours
Energy Efficiency: Class F

Custom Structures and Electrical Data

Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
2200K 2500K 2700K	12V	128	7.8	31.25	4	16	2400	4	10
		128	7.8	31.25	4	19.2	2800	3	12
3000K 4000K 5000K 6000K	24V	160	6.2	50	8	16	2500	8	10
		160	6.2	50	8	21.6	3400	6	12

As the heating generated, it is recommended to mount strips above 16W into a properly dissipating aluminum profile. Specifications in the table can be customized.

Available Ingress Protection Option



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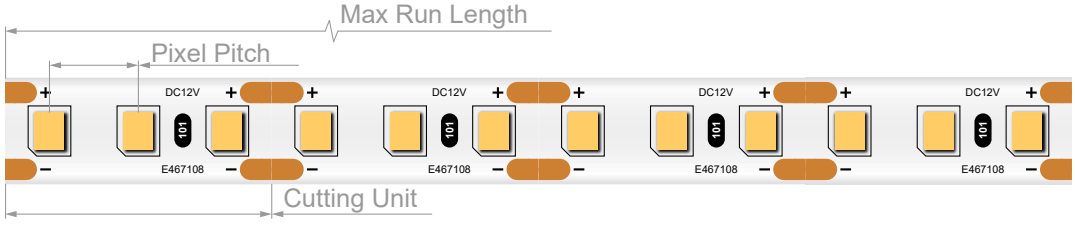

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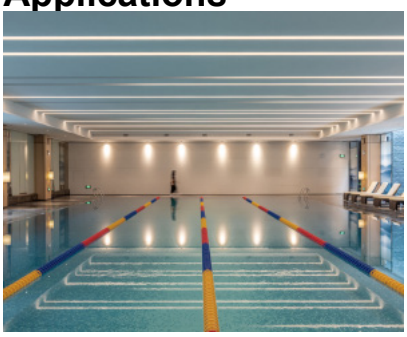
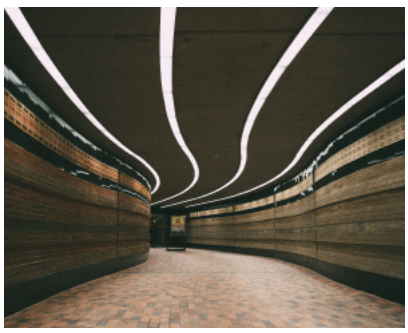




Render Series

Technical Data

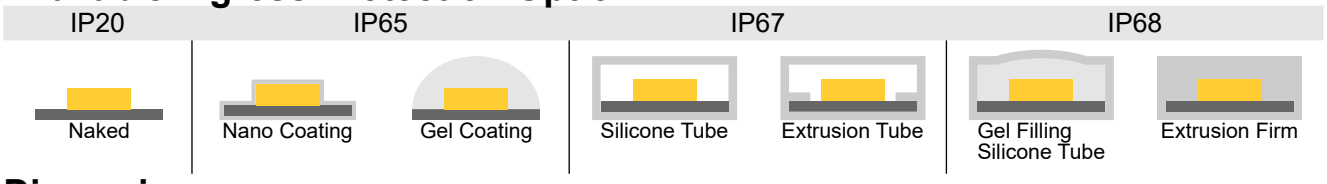
LED Chips: Optimized 2835 Package LED
Color Rendering Index: High CRI up to 95
Luminous Efficacy: 100 lm/W
Color Consistency: 3-Step MacAdam
Dimming: Fully Dimmable
Beam Angle: 120°
FPC: 2 oz Copper Foil
Mounting Method: Thermally Resistant 3M VHB Adhesive
Package: Aluminum Foil Sealing Bag
Ambient temperature: -20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy: >50,000 Hours
Energy Efficiency: Class F

Custom Structures and Electrical Data

Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
2200K 2500K 2700K 3000K 4000K 5000K 6000K	12V	128	7.8	31.25	4	16	1500	4	10
		128	7.8	31.25	4	19.2	1800	3	12
	24V	160	6.2	50	8	16	1600	8	10
		160	6.2	50	8	21.6	2100	6	12

As the heating generated, it is recommended to mount strips above 16W into a properly dissipating aluminum profile.
Specifications in the table can be customized.

Available Ingress Protection Option



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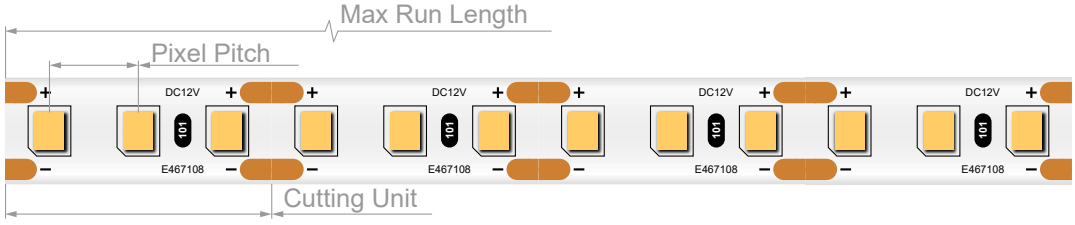

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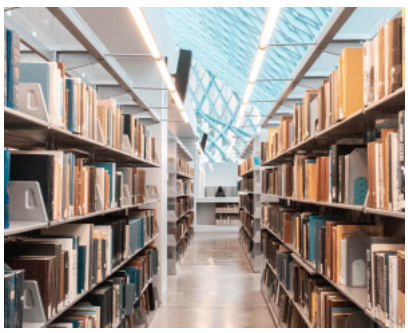


Spotless Series

Technical Data

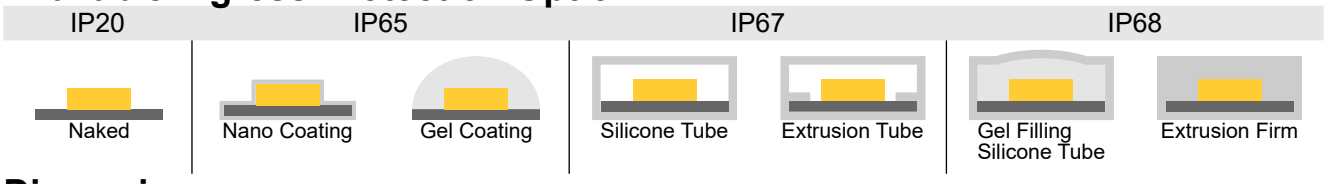
LED Chips: Optimized 2216 Package LED
Color Rendering Index: High CRI up to 90
Luminous Efficacy: 100 lm/W
Color Consistency: 3-Step MacAdam
Dimming: Fully Dimmable
Beam Angle: 120°
FPC: 2 oz Copper Foil
Mounting Method: Thermally Resistant 3M VHB Adhesive
Package: Aluminum Foil Sealing Bag
Ambient temperature: -20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy: >50,000 Hours
Energy Efficiency: Class F

Custom Structures and Electrical Data

Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
2200K 2500K 2700K 3000K 4000K 5000K 6000K	12V	300	3.3	10	3	12	1000	5	10
		420	2.4	7.2	3	16.8	1400	4	10
	24V	300	3.3	20	6	12	1000	10	10
		420	2.4	14.4	6	16.8	1500	8	10

As the heating generated, it is recommended to mount strips above 16W into a properly dissipating aluminum profile.
Specifications in the table can be customized.

Available Ingress Protection Option



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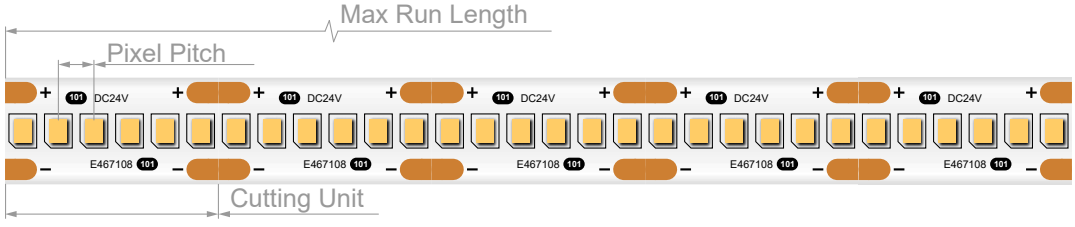

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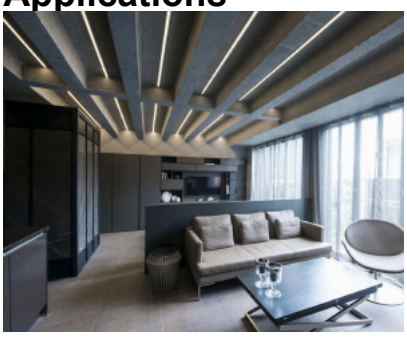
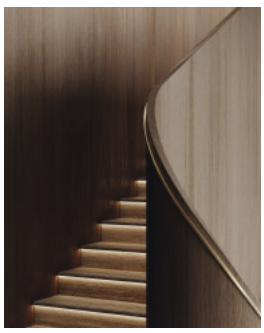
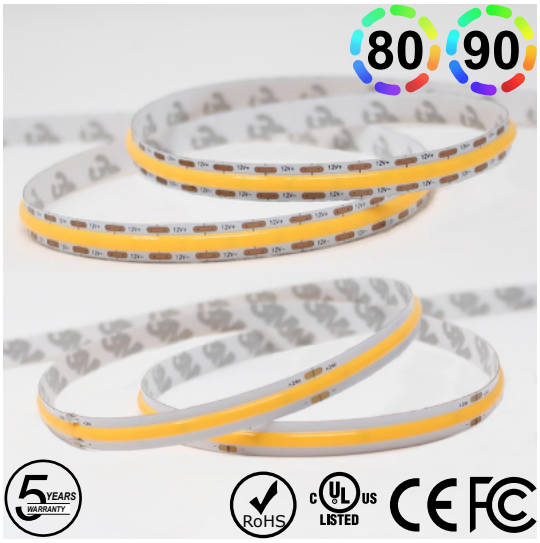




COB Series

Technical Data

LED Chips: Optimized COB
Color Rendering Index: High CRI up to 90
Luminous Efficacy: 100 lm/W
Color Consistency: 3-Step MacAdam
Dimming: Fully Dimmable
Beam Angle: 150°
FPC: 2 oz Copper Foil
Mounting Method: Thermally Resistant 3M VHB Adhesive
Package: Aluminum Foil Sealing Bag
Ambient temperature: -20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy: >50,000 Hours
Energy Efficiency: Class F



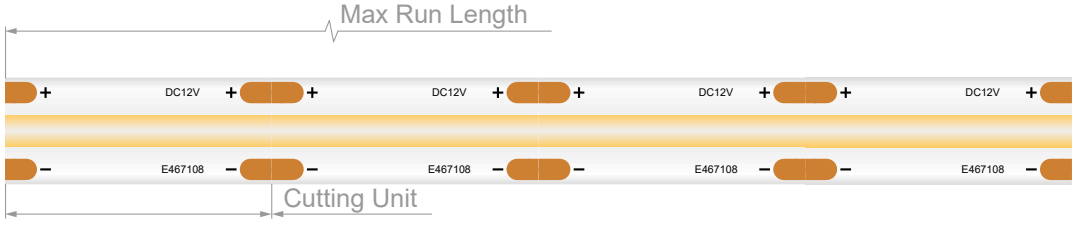
Custom Structures and Electrical Data

Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
2200K 2500K 2700K	12V	480	/	25	/	9	800	5	8
		512	/	31	/	10	900	5	8
3000K 4000K 5000K 6000K	24V	480	/	50	/	9	900	10	8
		512	/	7.8	/	10	1000	10	8
		512	/	62.5	/	14	1400	10	10

As the heating generated, it is recommended to mount strips above 16W into a properly dissipating aluminum profile.
Specifications in the table can be customized.

Available Ingress Protection Option

Dimensions



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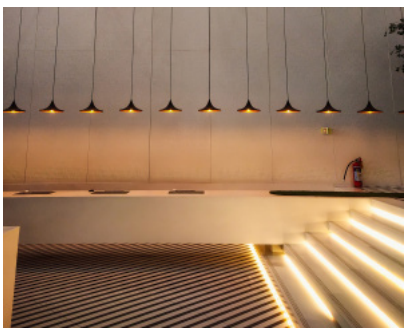


Mini Cut Series

Technical Data

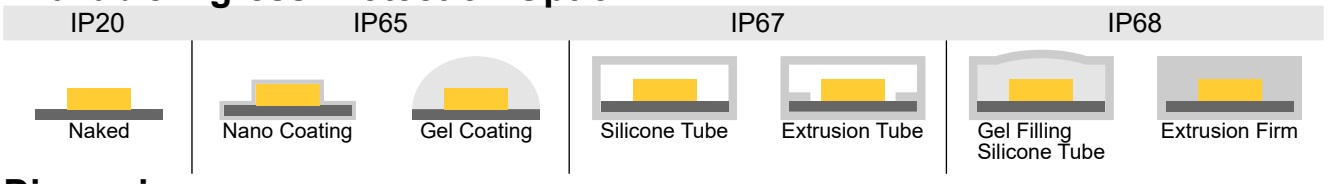
LED Chips: Optimized 2835 Package LED
Color Rendering Index: High CRI up to 90
Luminous Efficacy: 105 lm/W
Color Consistency: 3-Step MacAdam
Dimming: Fully Dimmable
Beam Angle: 120°
FPC: 2 oz Copper Foil
Mounting Method: Thermally Resistant 3M VHB Adhesive
Package: Aluminum Foil Sealing Bag
Ambient temperature: -20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy: >50,000 Hours
Energy Efficiency: Class F

Custom Structures and Electrical Data

Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
2200K	12V	120	8.3	8.3	1	9.6	900	6	8
2500K 2700K		120	8.3	8.3	1	14.4	1500	5	8
3000K	24V	120	8.3	8.3	1	9.6	900	12	8
4000K 5000K 6000K		120	8.3	8.3	1	14.4	1500	10	8

As the heating generated, it is recommended to mount strips above 16W into a properly dissipating aluminum profile. Specifications in the table can be customized.

Available Ingress Protection Option



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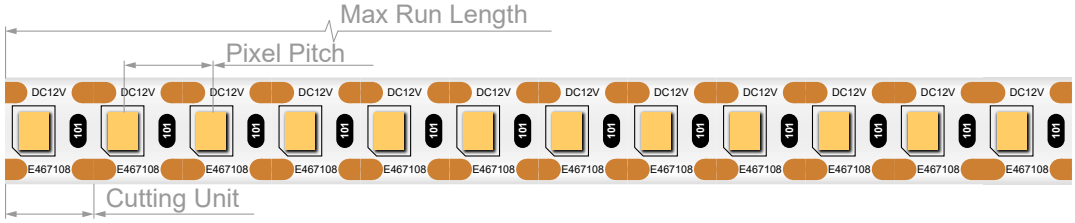


Applications

Slim Series

Technical Data

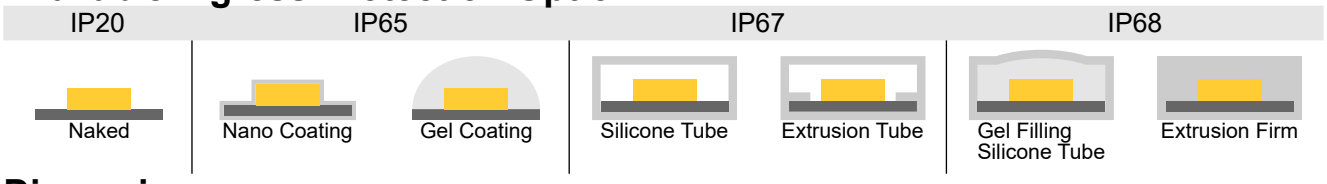
LED Chips: Optimized Package LED
Color Rendering Index: High CRI up to 90
Luminous Efficacy: 90 lm/W
Color Consistency: 3-Step MacAdam
Dimming: Fully Dimmable
Beam Angle: 120°
FPC: 2 oz Copper Foil
Mounting Method: Thermally Resistant 3M VHB Adhesive
Package: Aluminum Foil Sealing Bag
Ambient temperature: -20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy: >50,000 Hours
Energy Efficiency: Class F

Custom Structures and Electrical Data

Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
2200K 2500K 2700K	12V	2835-120	8.3	25	3	8	700	3	5
		2216-240	4.2	12.5	3	6	500	3	4
3000K 4000K 5000K 6000K	24V	2835-120	8.3	50	6	8	700	6	5
		2216-240	4.2	25	6	6	500	6	4
		COB-480	/	50	6	6	500	6	4

As the heating generated, it is recommended to mount strips above 16W into a properly dissipating aluminum profile. Specifications in the table can be customized.

Available Ingress Protection Option



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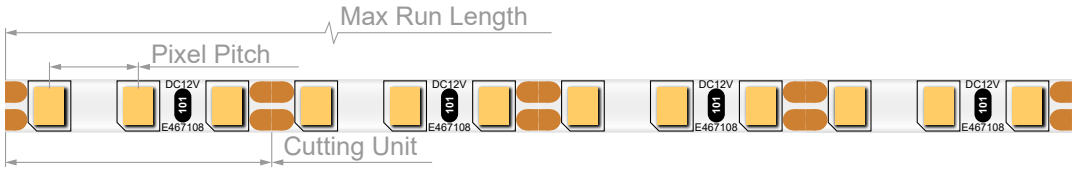


Applications

Tunable White

Gemini Series

Technical Data

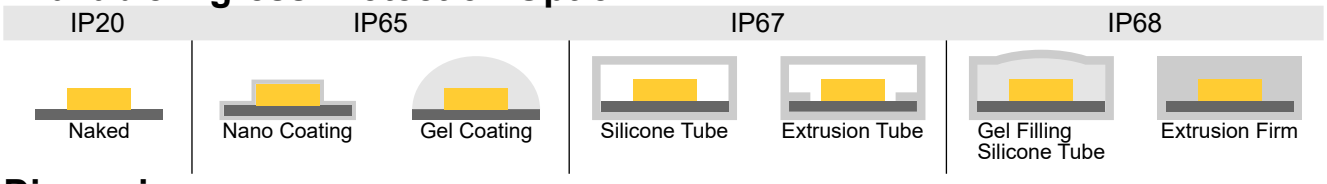
LED Chips: Optimized 2835 Package LED
Color Rendering Index: High CRI up to 90
Luminous Efficacy: 100 lm/W
Color Consistency: 3-Step MacAdam
Dimming: Fully Dimmable
Beam Angle: 120°
FPC: 2 oz Copper Foil
Mounting Method: Thermally Resistant 3M VHB Adhesive
Package: Aluminum Foil Sealing Bag
Ambient temperature: -20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy: >50,000 Hours
Energy Efficiency: Class F

Custom Structures and Electrical Data

Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
2200K 2500K 2700K	12V								
3000K 4000K 5000K 6000K	24V	60+60	4.2+4.2	100	6	9.6+9.6	900+900	7	12
		120+120	2.1+2.1	100	6	9.6+9.6	900+900	7	12

As the heating generated, it is recommended to mount strips above 16W into a properly dissipating aluminum profile.
Specifications in the table can be customized.

Available Ingress Protection Option



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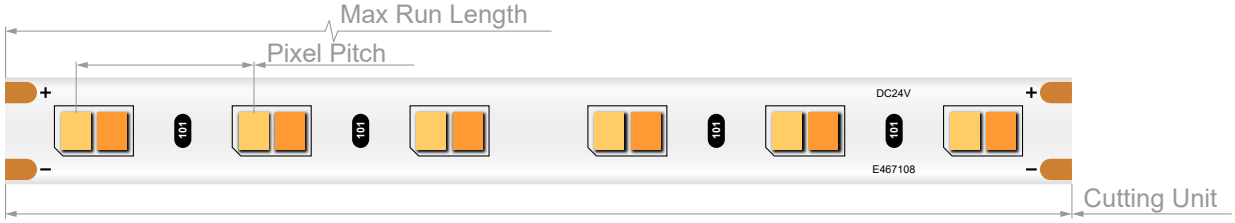
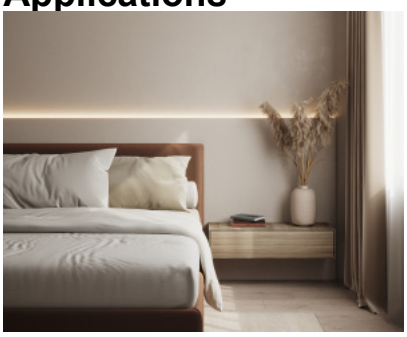


Applications




Colorful

RGB Series

Technical Data

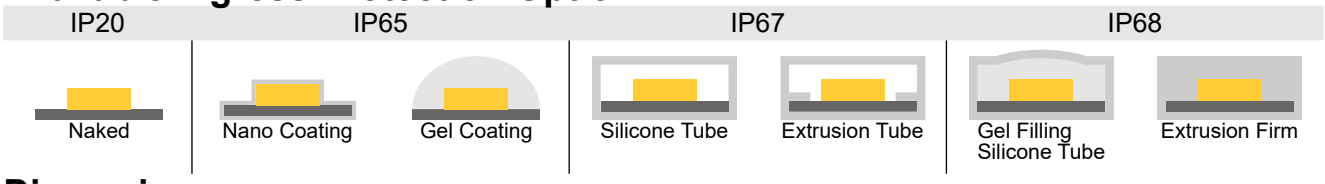
LED Chips: Optimized 5050 Package LED
Color Rendering Index: /
Luminous Efficacy: /
Color Consistency: 3-Step MacAdam
Dimming: Fully Dimmable
Beam Angle: 120°
FPC: 2 oz Copper Foil
Mounting Method: Thermally Resistant 3M VHB Adhesive
Package: Aluminum Foil Sealing Bag
Ambient temperature: -20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy: >50,000 Hours
Energy Efficiency: Class F

Custom Structures and Electrical Data

Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
RGB	12V	60	16.7	50	3	14.4	/	5	10
		96	10.4	31.2	3	19.2	/	3	12
	24V	60	16.7	100	6	14.4	/	10	10
		96	10.4	62.5	6	19.2	/	7	12
		120	8.3	50	6	14.4	/	10	10

As the heating generated, it is recommended to mount strips above 16W into a properly dissipating aluminum profile. Specifications in the table can be customized.

Available Ingress Protection Option



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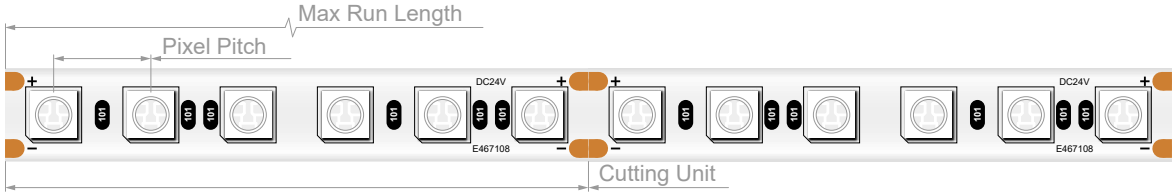
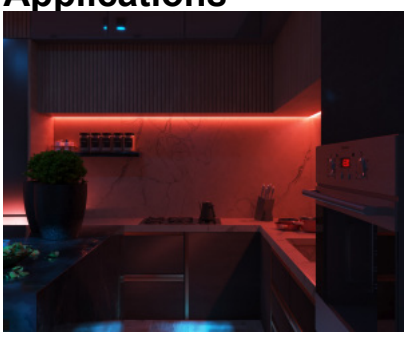


Applications



RGBW Series

Technical Data

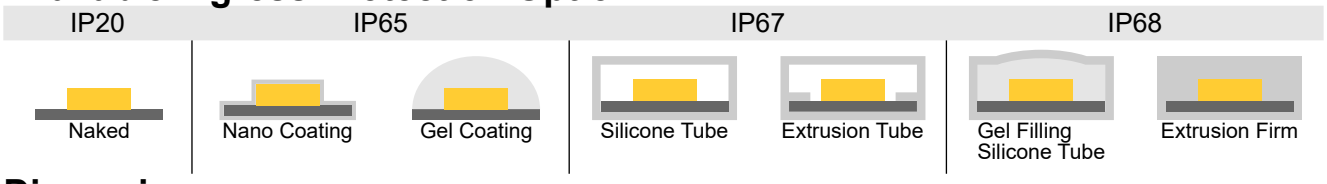
LED Chips: Optimized 5050 Package LED
Color Rendering Index: /
Luminous Efficacy: /
Color Consistency: 3-Step MacAdam
Dimming: Fully Dimmable
Beam Angle: 120°
FPC: 2 oz Copper Foil
Mounting Method: Thermally Resistant 3M VHB Adhesive
Package: Aluminum Foil Sealing Bag
Ambient temperature: -20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy: >50,000 Hours
Energy Efficiency: Class F

Custom Structures and Electrical Data

Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
RGB+CCT	12V	60	16.7	50	3	14.4	/	5	10
		96	10.4	31.2	3	19.2	/	3	12
	24V	60	16.7	100	6	14.4	/	10	10
		96	10.4	62.5	6	19.2	/	7	12
		120	8.3	50	6	14.4	/	10	10

As the heating generated, it is recommended to mount strips above 16W into a properly dissipating aluminum profile. Specifications in the table can be customized.

Available Ingress Protection Option



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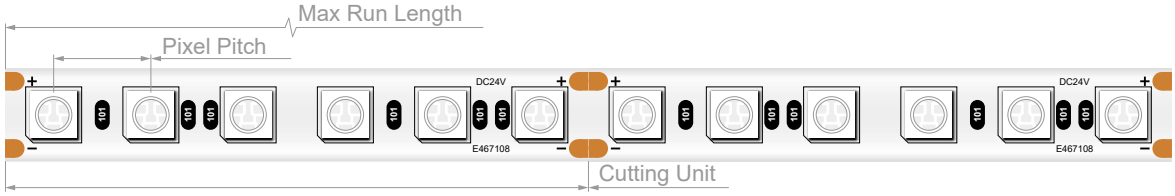
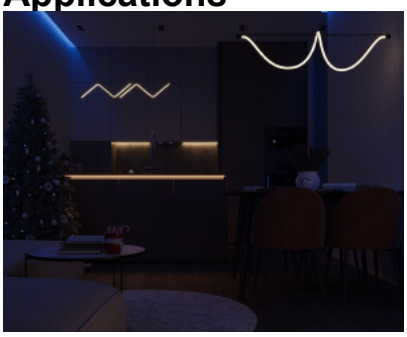
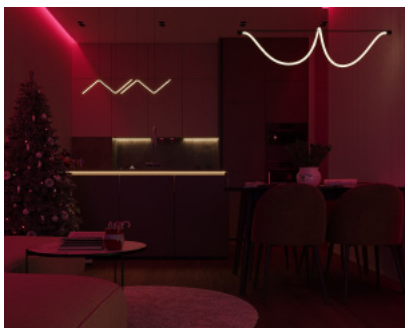


Applications





RGBWW Series

Technical Data

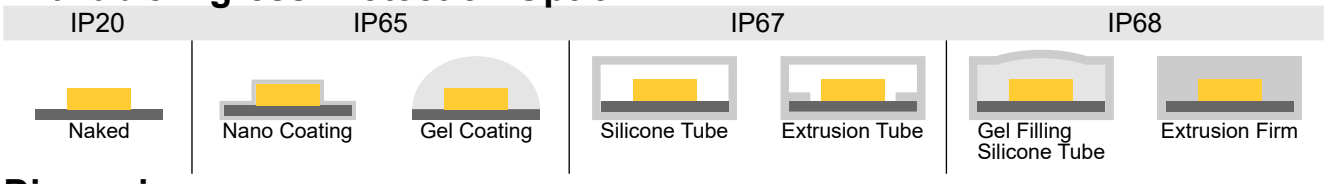
LED Chips: Optimized 5050 Package LED
Color Rendering Index: /
Luminous Efficacy: /
Color Consistency: 3-Step MacAdam
Dimming: Fully Dimmable
Beam Angle: 120°
FPC: 2 oz Copper Foil
Mounting Method: Thermally Resistant 3M VHB Adhesive
Package: Aluminum Foil Sealing Bag
Ambient temperature: -20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy: >50,000 Hours
Energy Efficiency: Class F

Custom Structures and Electrical Data

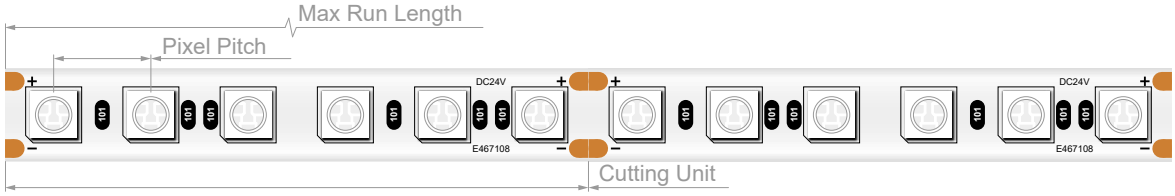
Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
RGB+CCT	12V	60	16.7	50	3	14.4	/	5	10
		96	10.4	31.2	3	19.2	/	3	12
	24V	60	16.7	100	6	14.4	/	10	10
		96	10.4	62.5	6	19.2	/	7	12
		120	8.3	50	6	14.4	/	10	10

As the heating generated, it is recommended to mount strips above 16W into a properly dissipating aluminum profile. Specifications in the table can be customized.

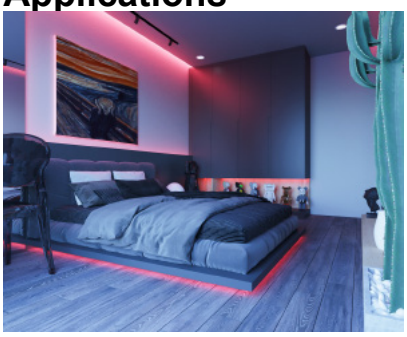
Available Ingress Protection Option

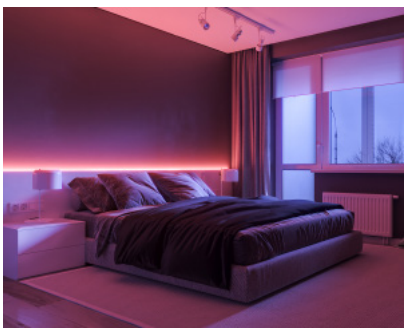


Dimensions



Applications



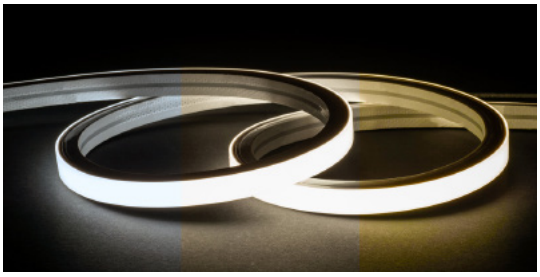


Neon Series

Monochromatic Neon

Technical Data

LED Chips: Optimized 2835 Package LED
Color Rendering Index: High CRI up to 80
Luminous Efficacy: 70 lm/W
Color Consistency: 3-Step MacAdam
Dimming: Fully Dimmable
Beam Angle: 120°
FPC: 2 oz Copper Foil
Mounting Method: Aluminum Channel / Mounting Clip
Package: Carton
Ambient temperature: -20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy: >50,000 Hours
Energy Efficiency: Class F
Material: UV-Resistant Silicone



Custom Structures and Electrical Data

Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
2200K	12V	120	8.3	25	3	9.6	600	6	8
2500K		120	8.3	25	3	14.4	1000	5	8
2700K									
3000K	24V	120	8.3	50	6	9.6	700	12	8
4000K		120	8.3	50	6	14.4	1100	10	8
5000K									
6000K									

As the heating generated, it is recommended to use strips below 14.4W into a flex neon tube.
Specifications in the table can be customized

Dimensions

Bend Type	Side to Side	Up to Down	Up to Down
Dimension	6*12 mm	12*12 mm	Diameter 22 mm
Minimun Bend Diameter	20 mm	50 mm	100 mm

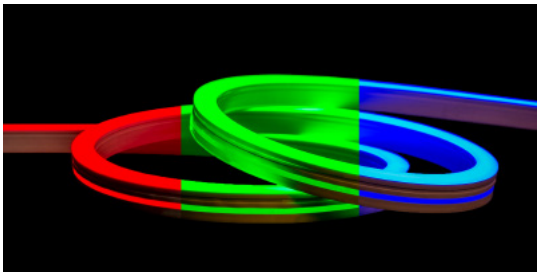
Connector Extension

Applications

Polychromatic Neon

Technical Data

LED Chips: Optimized 5050 Package LED
Color Rendering Index: /
Luminous Efficacy: /
Color Consistency: 3-Step MacAdam
Dimming: Fully Dimmable
Beam Angle: 120°
FPC: 2 oz Copper Foil
Mounting Method: Aluminum Channel / Mounting Clip
Package: Carton
Ambient temperature: -20°C to 45°C(-4°F to 113°F)
Lifetime Expectancy: >50,000 Hours
Energy Efficiency: Class F



Custom Structures and Electrical Data

Color Temperature	Working Voltage	LEDs/ meter	Pixel Pitch (mm)	Cutting Unit (mm)	LEDs/ Unit	Power (W/meter)	Luminous Flux (lm/meter)	Max Run Length (meter)	FPC Width (mm)
RGB	12V	60	16.7	50	3	9.6	/	6	10
		96	10.4	31.2	3	14.4	/	5	10
	24V	60	16.7	100	6	9.6	/	12	10
		96	10.4	62.5	6	14.4	/	10	10

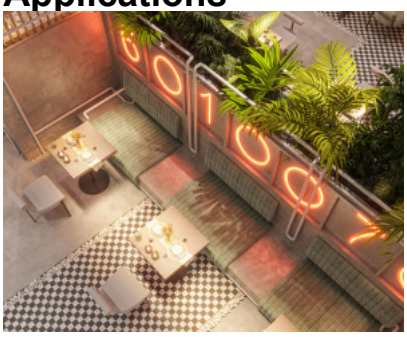
As the heating generated, it is recommended to use strips below 14.4W into a flex neon tube.
Specifications in the table can be customized

Dimensions

Bend Type	Side to Side	Up to Down	Up to Down
Dimension	10*16 mm	14*14 mm	Diameter 22 mm
Minimun Bend Diameter	20 mm	50 mm	100 mm

Connector Extension

Applications



Power Supply

MEANWELL-LPV-100

IP67 IS 15885(Part 2/Sec13) R-41027766 for 12V, 24V only

Features

Constant voltage design
Universal AC input / Full range
Fully encapsulated with IP67 level (Note.7)
Withstand 300VAC surge input for 5 seconds
Protections: Short circuit / Overload /Over voltage
Fully isolated plastic case
Cooling by free air convection
100% full load burn-in test
Low cost, high reliability
Suitable for LED related fixture or appliance
(such as LED Decoration or Advertisement devices) (Note. 11)
2 years warranty

MEANWELL-HLG-100H

Features

Constant Voltage + Constant Current mode output
Metal housing with class I design
Built-in active PFC function
Class 2 power unit
IP67 / IP65 rating for indoor or outdoor installations
Function options: output adjustable via potentiometer;
3 in 1 dimming; Timer dimming
Typical lifetime > 62000 hours
7 years warranty

MEANWELL-PWM-120

Features

Constant voltage PWM style output
Emergengcy lighting application is available
according to IEC61347-2-13
Built-in active PFC function and class design
No load power consumption <0.5W/ standby power
consumption <0.5w(DA/DA2-type)
Fully encapsulated with IP67 level
Function options: 3 in 1 dimming (dim-to-off); DALI/DAL-2
Minimum dimming level 0.2% for DALI type
Typical lifetime>50000 hours and 5 years warranty

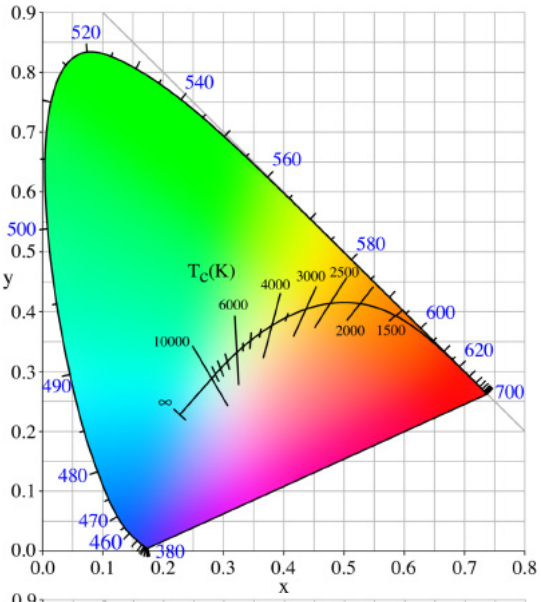
Wire & Connectors

Quick Connector	Strip-to-wire Connector	Strip-to-strip Connector
		
		
		
		

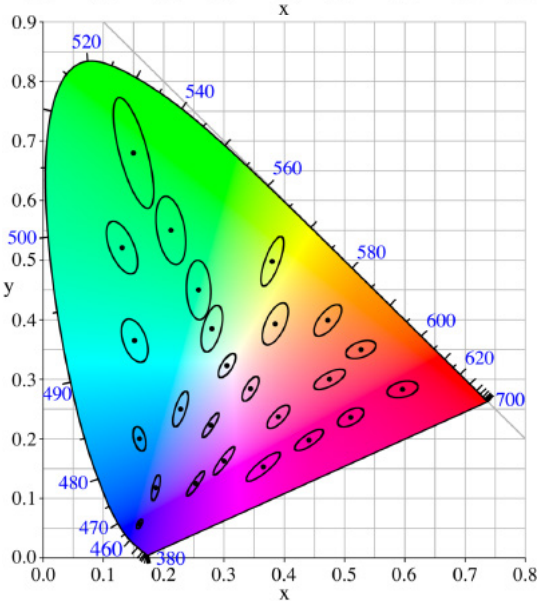
Correlated Color Temperature

Color temperature is the color of light emitted by an idealized opaque, non-reflective body at a particular temperature measured in kelvins. The color temperature scale is used to categorize the color of light emitted by other light sources regardless of their temperature.

Color temperatures over 5000 K are called "cool colors" (bluish), while lower color temperatures (2700–3000 K) are called "warm colors" (yellowish).



The color temperature on each color temperature marking line is the same, but it is clear that the color at both ends of the line segment is different, which is why there will be color differences between lights purchased twice separately, so the lighting industry utilizes a color tolerance system in conjunction with CCT to specify color consistency.



In the study of color vision, a MacAdam ellipse is a region on a chromaticity diagram which contains all colors which are indistinguishable, to the average human eye, from the color at the center of the ellipse. The contour of the ellipse therefore represents the just-noticeable differences of chromaticity. Standard Deviation Color Matching in LED lighting uses deviations relative to MacAdam ellipses to describe color precision of a light source.

Color Rendering Index

The Color Rendering Index (CRI), also known by some as color accuracy, is a term of measurement of how natural the light given off by a source looks in comparison to the sun. The CRI is measured as a number between 0 and 100. At 0, all colors look the same and sun light is CRI 100 which shows the true colors of the object.

The CRI 80+ is adequate color rendering for most indoor and commercial lighting applications.

CRI 90+ is more vivid, have a higher R9, perform better in red color, suit for retail stores, residences and home renovation.

CRI 95+ professional application for photography studios.

In general, a light source with a CRI of 80 to 90 is considered good, and a light source with a CRI of 90+ is excellent.

All of our light strips are CRI 80+. The higher CRI can be customized.

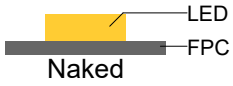
Ingress Protection Rating

Electric and electronic equipment deteriorate or malfunction when water or dust enters the device. The IEC has developed the ingress protection (IP) ratings, which grade the resistance of an enclosure against the intrusion of dust or liquids.

The first numeral refers to the protection against solid objects and is rated on a scale from 0 (no protection) to 6 (no ingress of dust).

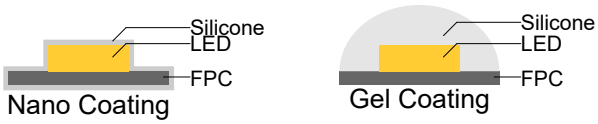
The second numeral rates the enclosure's protection against liquids and uses a scale from 0 (no protection) to 9 (high-pressure hot water from different angles).

IP20



Naked FPC suitable for direct installation in indoor environments or in aluminum profile.

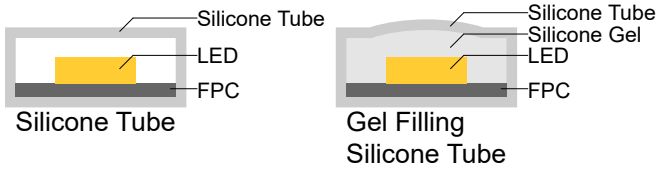
IP65



Nano coating process protects the solder joints of the circuit, and as soft as the IP20 type. Only for indoor damp places.

Gel coating provides stronger protection and can be used outdoors where it is not exposed to rain.

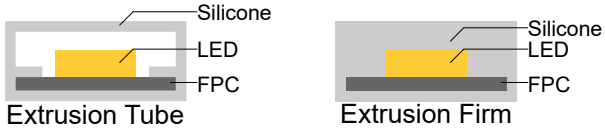
IP67



Silicone tube type can be rained, soaked in water for a short time. Same softness as the Gel coating type.

Extrusion tube slightly harder than the other. The tube is strong as a shell, provides better protection.

IP68



Both are solid and very hard to bend, can be soaked into the water. Extrusion firm has a longer lifespan than Gel filling type.

THANKS

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