

# Specification

D8168M-24V-10mm



### ▼General description

- double leds per cut for 24V, easily for customized application
- mini cut unit up to 11.9mm
- parameter matches with traditional ones,better for stock management
- Self-encapsulated design offers 5 optional 2700-6000K white lights



### ▼Dimension

※Max.length: 5000mm

Cutting unit: 2leds/11.9mm

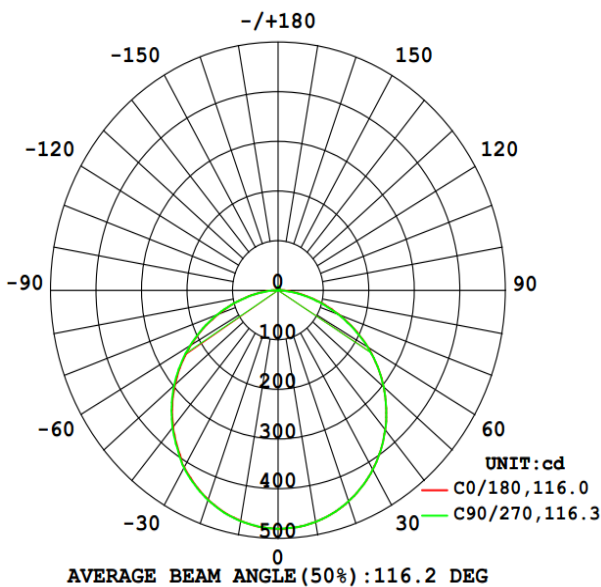
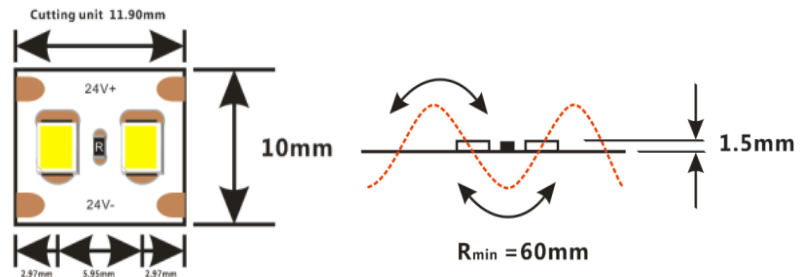
LED pitch: 5.95mm

Min. bend diameter:  $\Phi$ 60mm

Mounting: 3M tape

IP: IP20/IP55/IP65/IP67/IP68

※Warranty: 5years



Photometric of 1M strip

Flux out:1071 lm

Height	Eavg,Emax	Angle:116.00deg	Diameter
1m	133.1, 480.71x		320.06cm
2m	33.28, 120.21x		640.12cm
3m	14.79, 53.421x		960.18cm
4m	8.320, 30.051x		1280.24cm
5m	5.325, 19.231x		1600.30cm
6m	3.698, 13.351x		1920.36cm
7m	2.717, 9.8111x		2240.42cm
8m	2.080, 7.5121x		2560.48cm
9m	1.643, 5.9351x		2880.54cm
10m	1.331, 4.8071x		3200.59cm

AAI Figure

※Max.length data is based on 10% voltage drop

※Warranty is based on indoor use

### ▼ Electronic & output data

Input voltage: DC24V

Rated current: 0.67A(1m) /2.79A(5m)

Typical Powe: 16.15W(1m) /66.9W(5m)

CRI: >90

Max.power: 17.3W

On-off times: 10000 (test times)

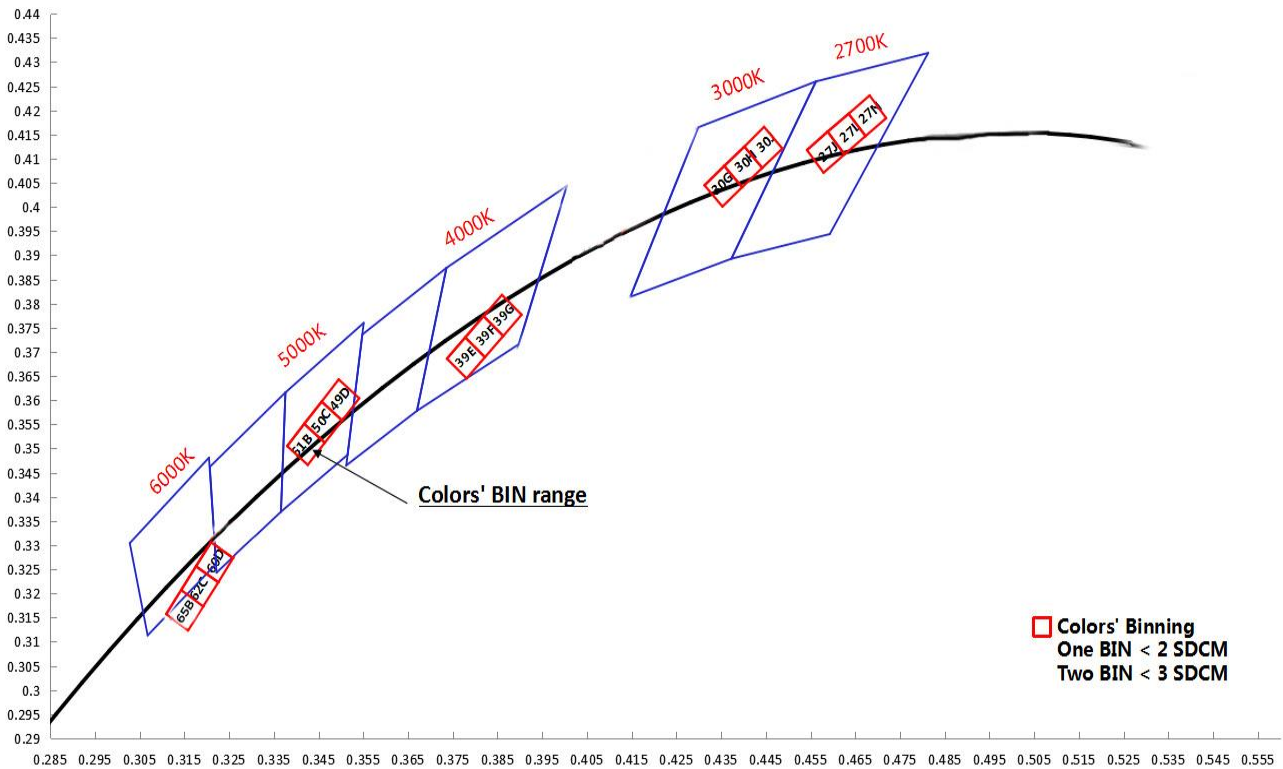
Power range: 15.0 ~ 17.3W

Copper foil: 3oz


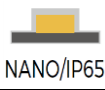

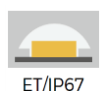

CRI	Color	CCT	Lumen(lm)	lm/W	Energy efficiency class
Ra>90	SW	2700K	1440	89	A+
Ra>90	WW	3000K	1520	94	A+
Ra>90	NW	4000K	1590	98	A+
Ra>90	DW	5000K	1590	98	A+
Ra>90	W	6000K	1520	94	A+

- 1.The tolerance of output data can be vary up to 15%
- 2.the output data tested according to IES TM-30-15
- 3.the output data is based on IP20/1merter, data of 5m in only for reference
- 4.IP protection process leads changes to size, CCT and luminous flux









### ▼ BIN







### ▼ IP Process

IP Process	Picture	description	Size	optional CCT/color for finished product	lumen output rate
NO		No proof	10mm*1.5mm	2700K/3000K/4000K /5000K/6000K	100%
NA		Nano-proof	10mm*1.5mm	2700K/3000K/4000K /5000K/6000K	98%
SG		Gel coating	10mm*2.7mm	3500K/4000K/6000K /10000K/15000K	90%
ET		Extrusion tube	12mm*4.8mm	2700K/3000K/4000K /5000K/6000K	88%
EF		Extrusion filling	12mm*5mm	3400K/3850K/5800K /8750K/15000K	86%

### ▼ Accessories Information

Name	Picture	Code	description
Connector for wire and FPC		94-03-00-0037	10mm width, 2PIN connector of wire and FPC,suitable for white color strip, NO/NA,2PIN wire18- 22AWG
Connector for FPC and FPC		94-42-621020004	10mm width, 2PIN connector of FPC and FPC,suitable for white color strip,NO/NA
Connector for wire and FPC		94-03-00-0045	10mm width, 2PIN connector of wire and FPC,suitable for white color and gel coating strip,SG, 2PIN wire 18- 22AWG
Connector for FPC and FPC		94-03-00-0049	10mm width, 2PIN connector of FPC and FPC,suitable for white color and gel coating strip, SG
Slim connector		94-03-00-0064	TSC-10-2, suitable for 10mm fpc to fpc connection , IP20, 2pin, 10pcs per bag
FPC with wire		94-03-00-0067	wire connection when using together with TSC-10-2,IP20,2PIN, 10PCS per bag
Fixed Clip		94-02-00-0003	Silicone clip, screw: PA 3*8mm, suitable for 10mm FPC,EH/EF/ET strip
Fixed Clip		94-02-00-0018	transparent, 3*8mm self-tapping screws, suitable for 10mm FPC, NO/NA LED strip

Fixed Clip		94-02-00-0016	Fixed clip, transparent, 3*8mm self-tapping screws, suitable for 10mm FPC, SG LED strip
Silicone end cap set		94-02-00-0022	Silicone end cap set, including end cap and plug, suitable for 10mm FPC,EH/ET/EF silicone extrusion strip
Mounting groove		94-02-00-0025	Transparent PVC mounting groove,suitable for 10mm FPC,silicone extruded EF/ET strip
Stopper glue		94-16-03010001	Silicone gel, suitable for ST/ET/EH/EF/SF waterproof LED strip

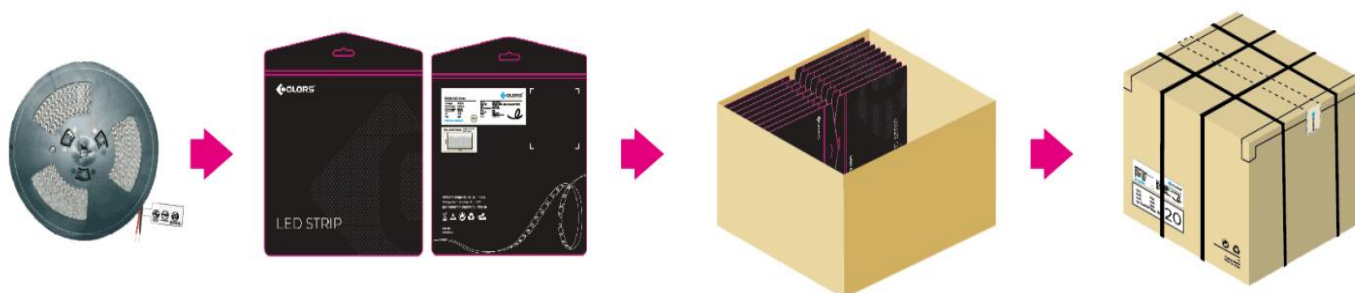
## ▼ Order Code Formats

1: Category		2: LED		3: LED/m		4: Voltage		5:FPC Width		6: IP Process		7: CRI		8: CCT	
D	-	8	2835	168M	168 LED	24	24V	10	10mm	NO	NO	9	> 90	SW	2700K
										NA	NANO			WW	3000K
										SG	Gel coating			NW	4000K
										ET	Extrusion tube			DW	5000K
										EF	Extrusion filling			W	6000K
D	-	8		168M		24		10		NO		9		SW	
9: Silk Printing		10: Entry cable		11: Wire type		12: Wire length		13: Tape type		14: Label Type		15: Strip Length			
N	Neutral	S	Single	A	red and black cable	012	12cm	W	White 3M	C	COLORS	0500	5m		
C	COLORS	D	Doubel	B	SM-male wire	020	20cm	Y	Yellow 3M	S	Customized	5000	50m		
S	Customized	X	Nothing	C	SM-female wire	050	50cm	R	Red tape			4000	40m		
				X	Nothing	100	100cm	X	Nothing						
						0	Nothing								
N		S		A		012		W		C		0500			

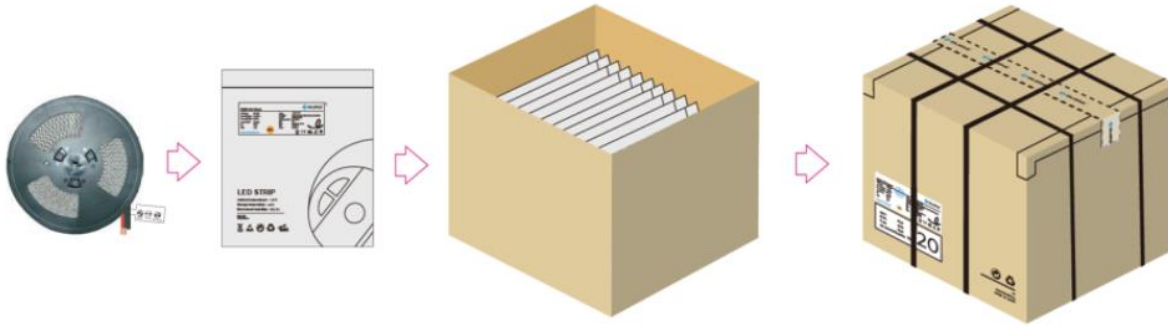
D8168M2410NO-9SWNSA012WC0500

## ▼ Packing

### Colors brand package



**General customized package**

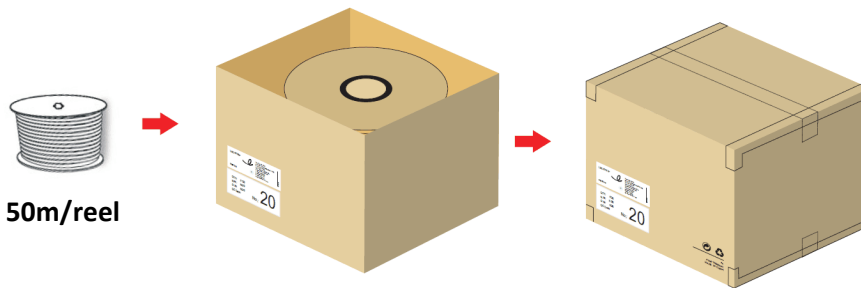


IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box (kg)	Gross weight (kg)	Package size (cm)
NO	5000*10*1.5	5	250	0.161	8.05	9.257	41*41*26
NA	5000*10*1.5	5	250	0.164	8.2	9.43	41*41*26
SG	5000*10*2.7	5	250	0.252	12.6	14.49	41*41*26
ET	5000*12*4.8	5	200	0.511	20.44	23.506	41*41*26
EF	5000*12*5	5	200	0.587	23.48	27.002	41*41*26

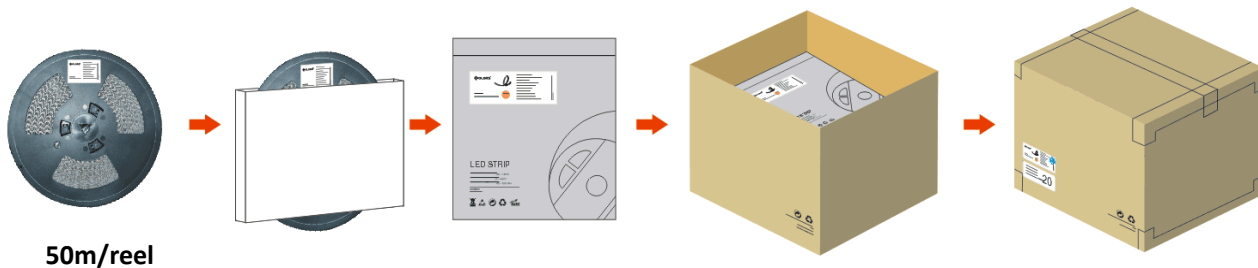
Remark: data with 10% tolerance

**Engineering packaging of ET(IP67)/EF(IP68)**

(free-soldering end caps with 40 cover per box could be ordered separately if needed)



**Engineering packaging of NO(IP20)/NA(IP65).**



IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box (kg)	Gross weight (kg)	Package size (cm)
NO	50000*10*1.5	50	500	1.61	16.1	18.515	41*41*26
NA	50000*10*1.5	50	500	1.64	16.4	18.86	41*41*26
ET	50000*12*4.8	50	100	5.21	10.42	11.983	25.5*25.5*26
EF	50000*12*5	50	100	5.98	11.96	13.754	25.5*25.5*26

Remark: data with 10% tolerance

## ▼ Precautions

- ※ Please drive the led strip with 24VDC isolated power, and the ripple of the constant voltage source should be less than 5%.
- ※ Please do not bend the strip into an arc with a diameter less than 60mm to ensure the longevity and reliability.
- ※ Do not fold it in case any damage of LED beads.
- ※ Do not pull the power wire hard to ensure the longevity. Any Crash may damage the LED light is prohibited.
- ※ Please make sure the wire is connected to the anode and cathode correctly. The power output should be consistent with the voltage of the strip to avoid damage.
- ※ LED lights should be stored in dry, sealed environment. Please only unpack it before usage. Ambient temperature: -25°C~40°C.Storage temperature: 0°C~60°C.Please use the strips without waterproof within indoor environment with humidity less than 70%.
- ※ Please be careful during operation. Do not touch the AC power supply in case of electric shock.
- ※ Please leave at least 20% power for the power supply during using to ensure there is enough power supply to drive the product.
- ※ Do not use any acid or alkaline adhesives to fix the product (e.g.: glass cement).