

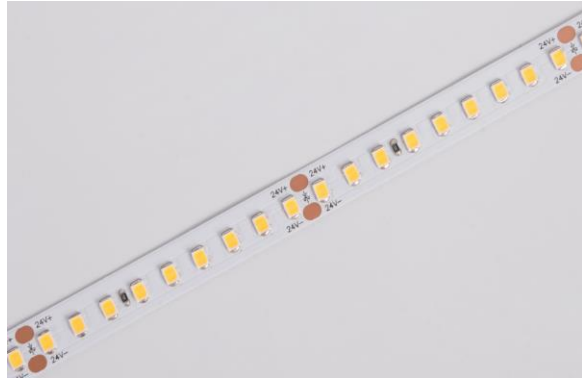
# Specification

D8144-24V-10mm



▼ General description

- Luminance efficiency Max up to 220LM/W
- Self-encapsulated design offers 4 optional 2700-6500K white lights
- With life span over 60000H
- Ta: -25~40°C; Tc: 75°C (max)



▼ Dimension

Max.length: 5000mm

Cutting unit: 9leds/62.5mm(0.27")

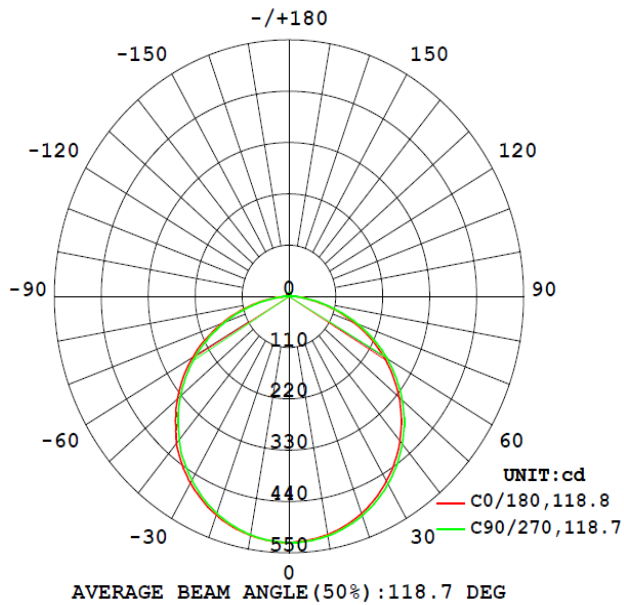
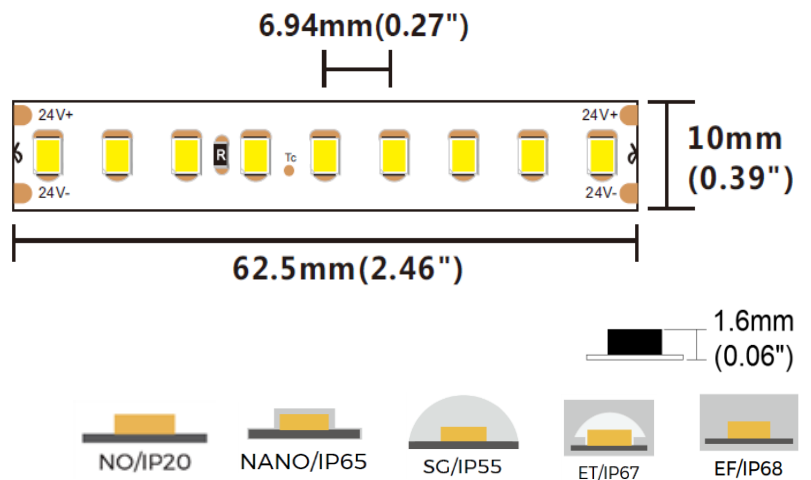
LED pitch: 6.94mm(2.46")

Min. bend diameter: Φ60mm

Mounting: 3M tape

IP: IP20/IP55/IP65/IP67

※Warranty: 5years



Photometric of 1M strip

Height	Eavg, Emax	Angle: 118.67deg	Diameter
1m	132.2, 528.31x		337.28cm
2m	33.04, 132.11x		674.55cm
3m	14.69, 58.701x		1011.83cm
4m	8.260, 33.021x		1349.10cm
5m	5.287, 21.131x		1686.38cm
6m	3.671, 14.671x		2023.66cm
7m	2.697, 10.781x		2360.93cm
8m	2.065, 8.2541x		2698.21cm
9m	1.632, 6.5221x		3035.48cm
10m	1.322, 5.2831x		3372.76cm

AAI Figure

※Warranty is based on indoor use

### ▼ Electronic & output data

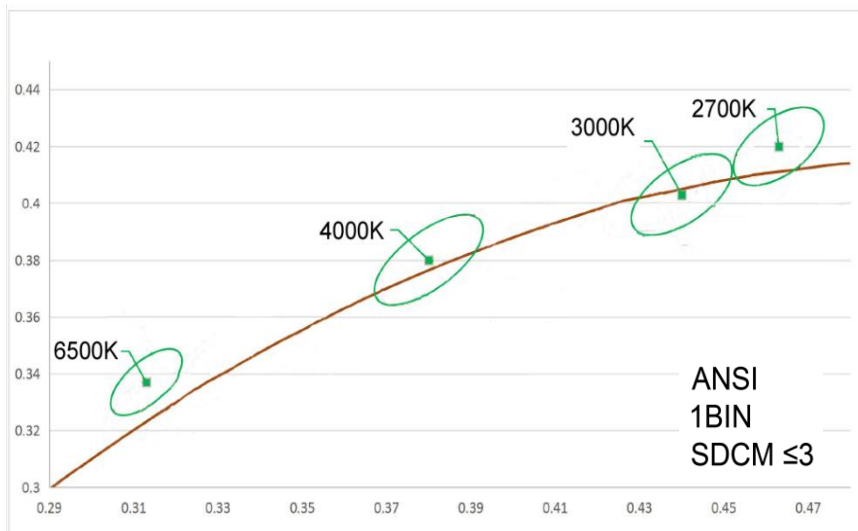
Input voltage: DC24V  
 Typical Power: 7W(1m) /28.8W(5m)  
 Max.power: 7.7W(1m)  
 Power range: 6.3 ~ 7.7W(1m)

Rated current: 0.29A(1m) /1.2A(5m)  
 CRI: 80  
 On-off times: 10000 (test times)  
 Copper foil: 3oz

CRI	Color	CCT	Lumen(lm)	lm/W	Energy efficiency class
Ra>80	SW	2700K	1370	196	C
Ra>80	WW	3000K	1445	206	B
Ra>80	NW	4000K	1505	215	B
Ra>80	W	6500K	1445	206	B

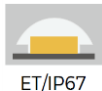

- 1.The tolerance of output data can be vary up to 15%
- 2.the output data tested according to IES TM-30-15
- 3.the output data is based on IP20/1merter, data of 5m in only for reference
- 4.IP protection process leads changes to size, CCT and luminous flux

### ▼ BIN















### ▼ IP Process

IP Process	Picture	description	Size	optional CCT/color for finished product	lumen output rate
NO	 NO/IP20	No proof	10mm*1.6mm	2700K/3000K/4000K/6500K	100%
NA	 NANO/IP65	Nano-proof	10mm*1.7mm	2700K/3000K/4000K/6500K	98%
SG	 SG/IP55	Gel coating	10mm*2.7mm	3500K/4000K/6000K/15000K	90%

ET	 ET/IP67	Extrusion tube	12mm*4.8mm	2700K/3000K/4000K/6500K	88%
EF	 EF/IP68	Extrusion filling	12mm*5mm	3400K/3850K/5800K/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		94-03-00-0070	Silicone end cap with hole&without hole, suitable for 10mmFPC, ET waterproof LED 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

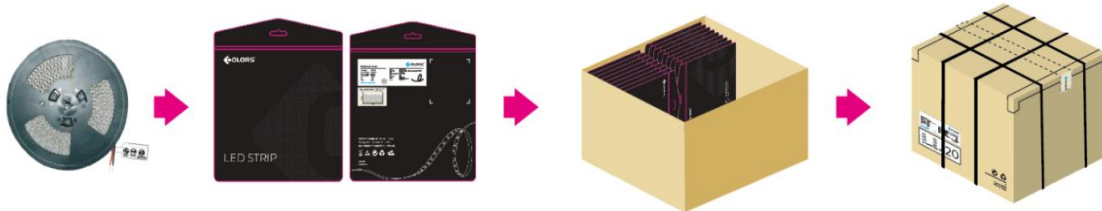
### ▼ Order Code Formats

1: Category		2: LED		3: LED/m		4: Voltage		5:FPC Width		6: IP Process		7: CRI		8: CCT	
D	-	8	2835	144	144 LED	24	24V	10	10mm	NO	NO	8	> 80	SW	2700K
										NA	NANO			WW	3000K
										SG	Gel coating			NW	4000K
										ET	Extrusion tube			W	6500K
										EF	Extrusion filling				
D	-	8		144		24		10		NO		8		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						
				X	Nothing	100	100cm	X	Nothing						
						0	Nothing								
N		S		A		012		W		C		0500			

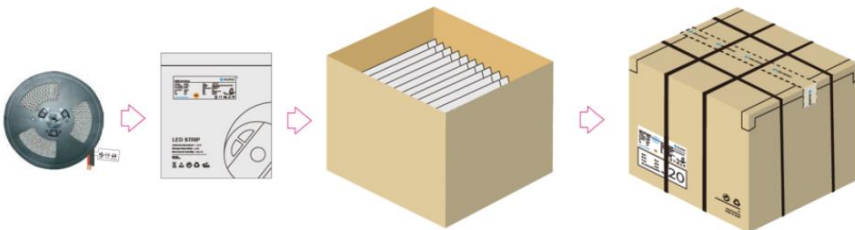
**D81442410NO-8SWNSA012WC0500**

### ▼ Packing

#### Colors brand package



#### General customized package

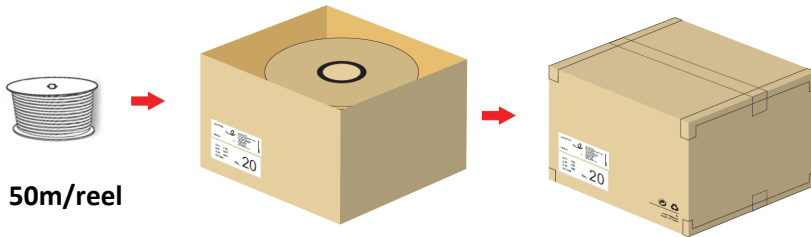


IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box (kg)	Gross weight (kg)	Package size (cm)
NO	5000*10*1.5	5	250	0.14	7	8.05	41*41*26
NA	5000*10*1.5	5	250	0.144	7.2	8.28	41*41*26
SG	5000*10*2.7	5	250	0.231	11.55	13.283	41*41*26
ET	5000*12*4.8	5	200	0.49	19.6	22.54	41*41*26
EF	5000*12*5	5	200	0.557	22.28	25.622	41*41*26

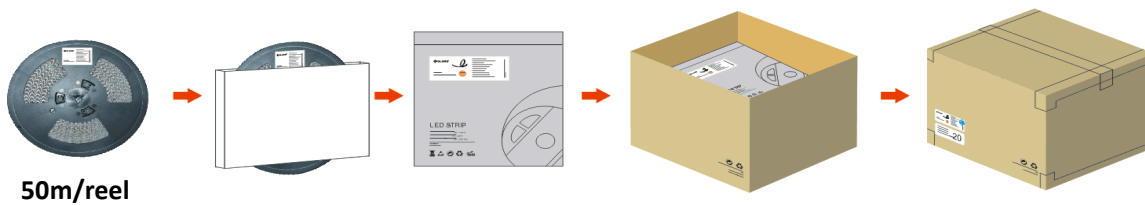
Remark: data with 10% tolerance

### 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	1.4	14	16.1	41*41*26
NA	50000*10*1.5	50	500	1.44	14.4	16.56	41*41*26
ET	50000*12*4.8	50	100	4.99	9.98	11.47	25.5*25.5*26
EF	50000*12*5	50	100	5.68	11.36	13.064	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).