

# Specification

D8168-24V-10mm  
(9.6W/m)



## ▼ General description

- Self-encapsulated design offers eight optional 1900-6000K white lights
- High quality PFC, high thermal 3M adhesive
- With life span over 60000H
- Ta: -25~40°C; Tc: 75°C (max)



## ▼ Dimension

\*Max.length: 5000mm

Cutting unit: 7leds/42mm

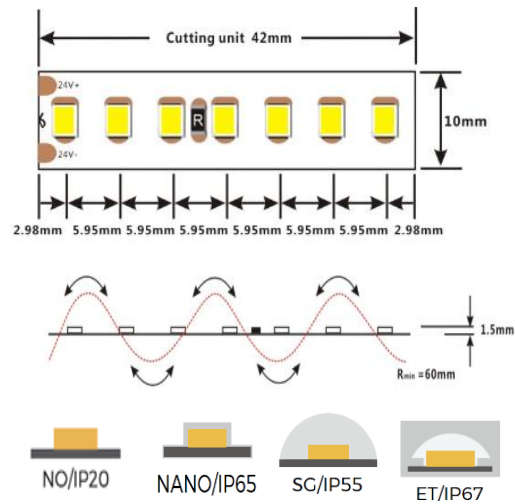
LED pitch: 5.95mm

Min. bend diameter:  $\Phi$ 60mm

Mounting: 3M tape

IP: IP20/IP55/IP65/IP67/IP68

\*Warranty: 5years



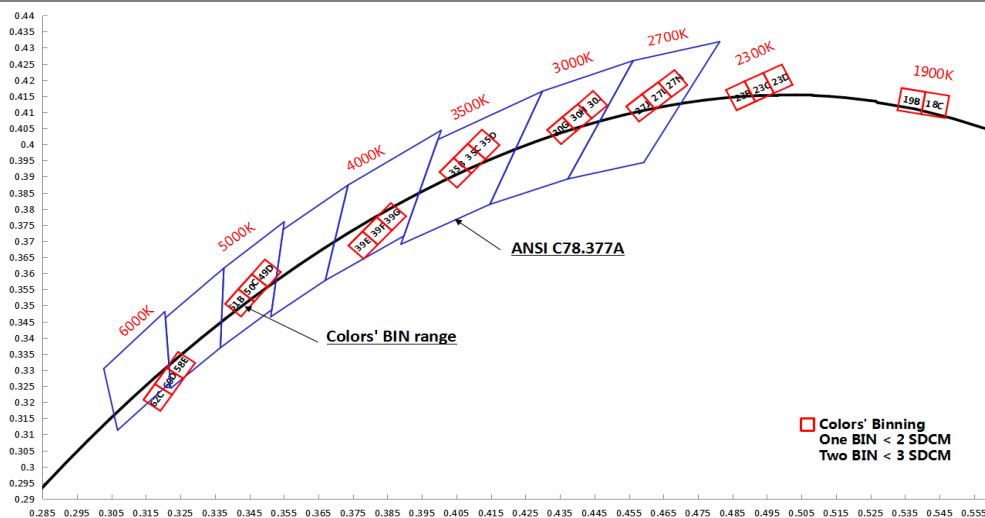
### ▼ Electronic & output data

Input voltage: DC24V	Rated current: 0.35A(1m) /1.4A(5m)
Typical Powe: 8.4W(1m) /33.6W(5m)	CRI: >90
Max.power: 9.6W	On-off times: 10000 (test times)
Power range: 7.5 ~ 9.6W	Copper foil: 3oz






CRI	Color	CCT	Lumen(lm)	lm/W	Energy efficiency class
Ra>90	SW	2700K	882	105	F
Ra>90	WW	3000K	930	112	F
Ra>90	PW	3500K	950	115	F
Ra>90	NW	4000K	980	119	F
Ra>90	DW	5000K	980	119	F
Ra>90	W	6000K	930	112	F

- 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	1900K/2300K/2700K/3000K/ 3500K/4000K/5000K/6000K/G/B	100%
NA		Nano-proof	10mm*1.5mm	1900K/2300K/2700K/3000K/ 3500K/4000K/5000K/6000K/G/B	98%
SG		Gel coating	10mm*2.7mm	2300K/3000K/3500K/4000K/ 6000K/10000K/15000K/G/B	90%
ET		Extrusion tube	12mm*4.8mm	1900K/2300K/2700K/3000K/ 3500K/4000K/5000K/6000K/G/B	88%
EF		Extrusion filling	12mm*5mm	2300K/2900K/3400K/3850K/ 5800K/8750K/15000K/G/B	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

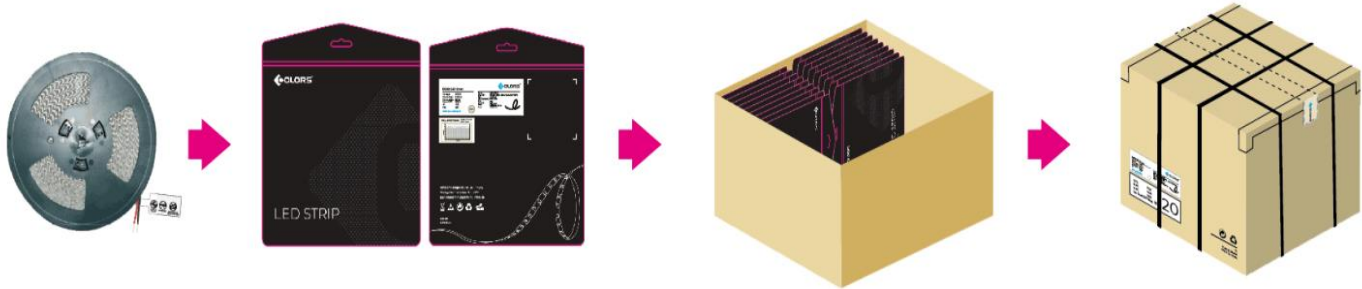
1: Category		2: LED		3: LED/m		4: Voltage		5:FPC Width		6: IP Process		7: CRI		8: CCT	
D	-	8	2835	168	168 LED	24	24V	10	10mm	NO	NO	9	> 90	GW	1900K
										NA	NANO	H	>95	LW	2300K
										SG	Gel coating	F	> 98	SW	2700K
										ET	Extrusion tube	0	0	WW	3000K
										EF	Extrusion filling			PW	3500K
														NW	4000K
														DW	5000K
														W	6000K
														G	Green
														B	Blue
D	-	8		168		24		10		NO		9		GW	

9: Silk Printing		10: Entry cable		11: Wire type		12: Wire length		13: Tape type		14: Label Type		15: Strip Length		16: Suffix	
N	Neutral	S	Single	A	red and black cable	012	12cm	W	White 3M	C	COLORS	0500	5m	9.6W	9.6W/m
C	COLORS	D	Double	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			

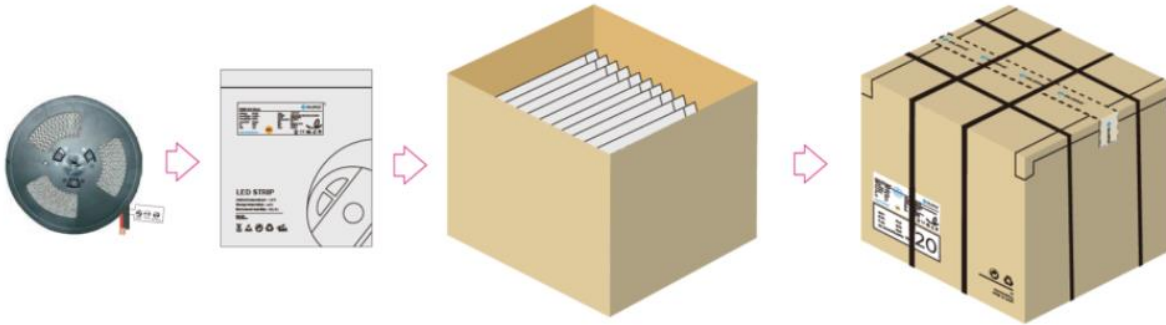
D81682410NO-9GWNSA012WC0500-9.6W

▼ Packing

**Colors brand package**



**General customized package**

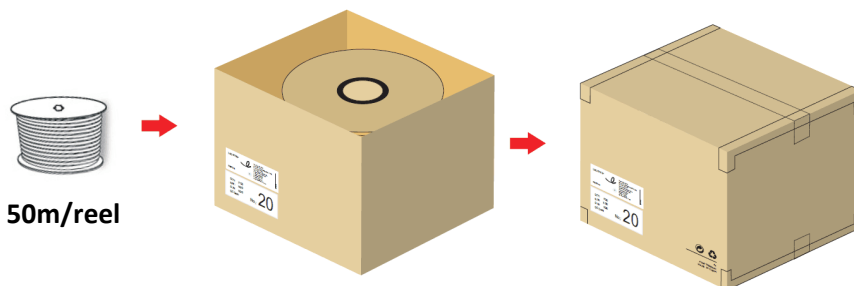


IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box (kg)	Gross weight (kg)	Package size (cm)
NO	5000*10*1.5	5	250	0.14	7	8.05	41*41*26
NA	5000*10*1.5	5	250	0.144	7.2	8.28	41*41*26
SG	5000*10*2.7	5	250	0.231	11.55	13.283	41*41*26
ET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

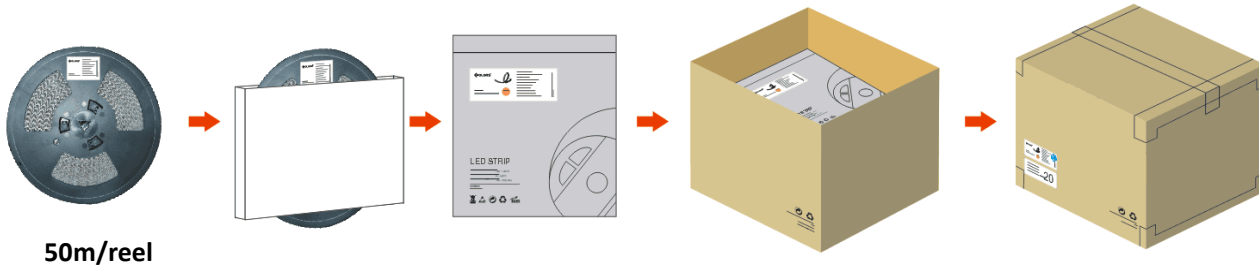
Remark: data with 10% tolerance

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

(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).