

PRO Series Specification

# DS8144

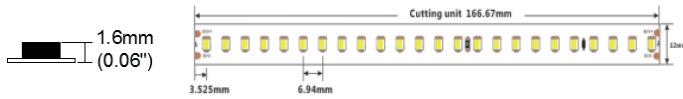
## 48V-12mm

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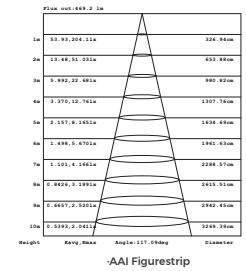
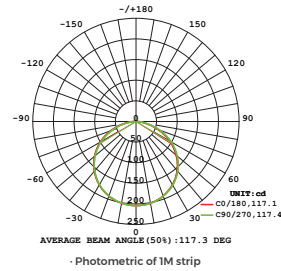
## 【General description】

- 50m long strip driven by one end power supply with the same brightness from end to end
- Self-encapsulated design offers eight optional 1900-6000K white lights
- With life span over 60000H
- Ta: -25-40°C; Tc: 75°C (max)



## 【Dimension】

- |                                      |                                      |
|--------------------------------------|--------------------------------------|
| Input voltage: DC48V                 | Max.length: 50000mm(164.04')         |
| CRI: 80/90/95                        | Cutting unit: 24leds/166.67mm(6.56") |
| Max.power: 5.8W(1m)                  | LED pitch: 6.94mm(0.27")             |
| Power range: 5.1~5.8W(1m)            | Min. bend diameter: Φ60mm(2.36")     |
| Rated current: 0.112A(1m) /5.7A(50m) | Mounting: 3M tape                    |
| Typical Power: 5.4W(1m) /274W(50m)   | Copper foil: 3oz                     |
| tape IP: IP20/IP65/IP67/IP68         |                                      |
| On-off times: 10000 (test times)     |                                      |
| Warranty: 5years                     |                                      |

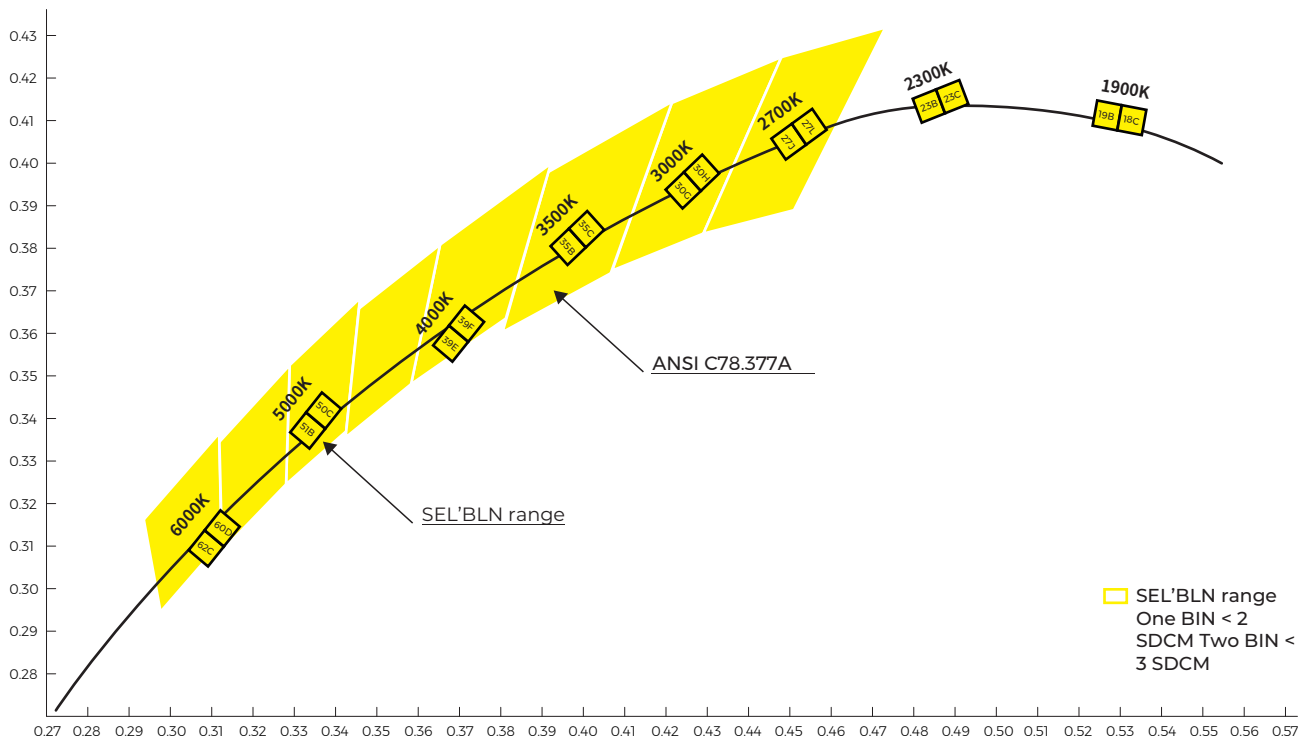


## 【Photo-electric Parameters】

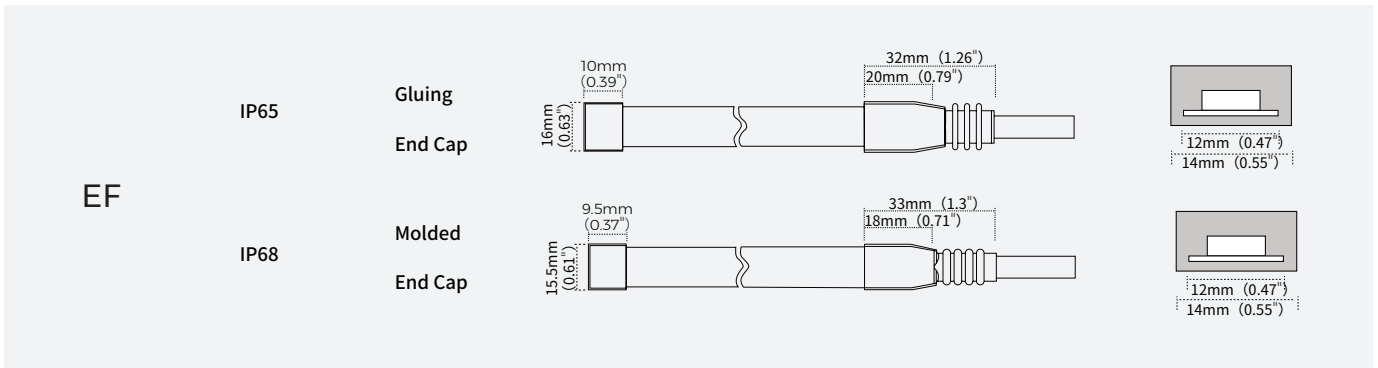
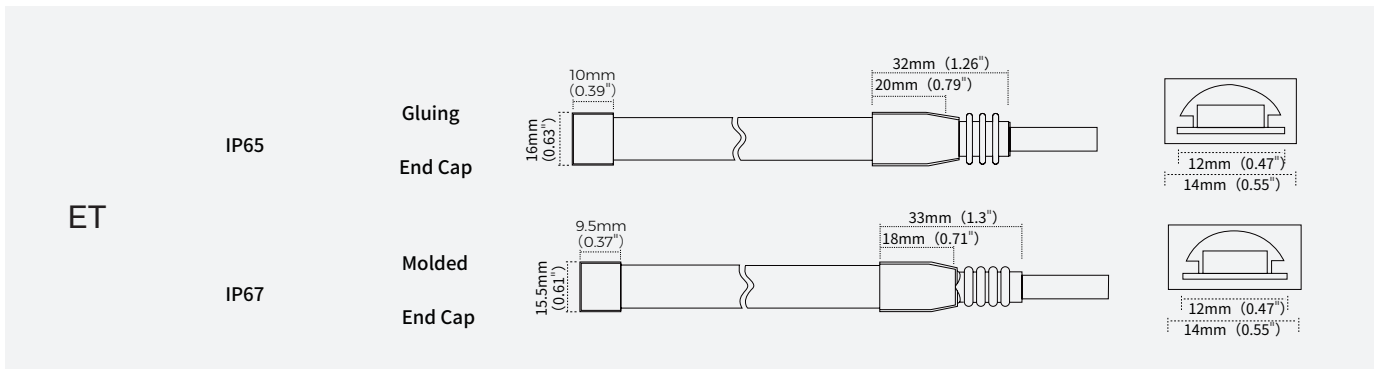
CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>80	GW	1900K	520	155	97	F
Ra>80	LW	2300K	570	170	106	F
Ra>80	SW	2700K	640	195	113	F
Ra>80	WW	3000K	635	190	118	F
Ra>80	PW	3500K	640	195	119	F
Ra>80	NW	4000K	655	200	122	E
Ra>80	DW	5000K	655	200	122	E
Ra>80	W	6000K	635	190	118	F
Ra>90	GW	1900K	440	130	82	G
Ra>90	LW	2300K	490	150	91	G
Ra>90	SW	2700K	530	160	98	F
Ra>90	WW	3000K	550	165	103	F
Ra>90	PW	3500K	560	170	104	F
Ra>90	NW	4000K	580	175	107	F
Ra>90	DW	5000K	580	175	107	F
Ra>90	W	6000K	550	165	103	F

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>95	GW	1900K	305	90	57	/
Ra>95	LW	2300K	355	105	66	/
Ra>95	SW	2700K	390	115	73	/
Ra>95	WW	3000K	425	130	79	G
Ra>95	PW	3500K	450	135	84	G
Ra>95	NW	4000K	470	140	87	G
Ra>95	DW	5000K	470	140	87	G
Ra>0	G	525nm	/	/	/	/
Ra>0	B	470nm	/	/	/	/





- 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.










**【IP process information】**



**【Electronic & output data】**

IP Process	Picture	Picture description	Size	optional CCT/color for finished product	lumen output rate
NO		No proof	12mm*1.5mm	1900K/2300K/2700K/3000K/3500K/4000K/5000K/6000K/G/B	100%
NA		Nano-proof	12mm*1.6mm	1900K/2300K/2700K/3000K/3500K/4000K/5000K/6000K/G/B	98%
ET		Extrusion tube	14mm*4.8mm	1900K/2300K/2700K/3000K/3500K/4000K/5000K/6000K/G/B	88%
EF		Extrusion filling	14mm*5mm	2300K/2900K/3400K/3850K/5800K/8750K/15000K/G/B	86%

## 【Accessories Information】

Name	Picture	Code	coding	description
Connector for wire and FPC		94-03-00-0038	TXB212-NOGA	12mm width, 2PIN connector of wire and FPC, suitable for white color strip, NO/NA, 2PIN wire 18-22AWG
Connector for FPC and FPC		94-03-00-0040	TBB212-NOGA	12mm width, 2PIN connector of FPC and FPC, suitable for white color strip, NO/NA
Fixed Clip		94-02-00-0004	FSW12SA	Silicone clip, screw: PA 3*8mm, suitable for 12mm FPC, EF/ET strip
Silicone Plug Kit		94-02-00-0048	DT12EA-A	Silicone plug kit, suitable for 12mm board width, ET/EF series silicone extrusion light strip
Silicone stopper kit		94-02-00-0049	DW12EA-A	Silicone tail plug kit, suitable for 12mm board width, ET/EF series silicone extrusion light strip
Mounting groove		94-02-00-0026	CPT12EA-16100100	Transparent PVC mounting groove, suitable for 12mm FPC, silicone extruded EF/ET strip
Stopper glue		94-16-03010001	AS-PC-0003	Silicone gel, suitable for ET/EF/EG/ERG waterproof LED strip

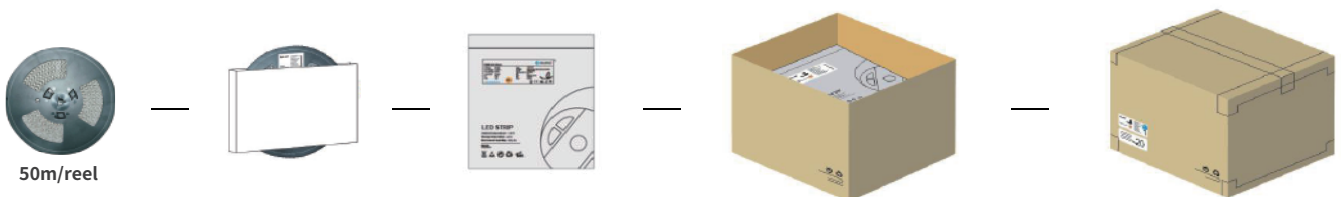
## 【Packing】

### · 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*12*1.5	50	500	1.5	15	17.25	41*41*26
NA	50000*12*1.6	50	500	1.53	15.3	17.595	41*41*26
ET	50000*14*4.8	50	100	5.5	11	12.65	25.5*25.5*26
EF	50000*14*5	50	100	6.3	12.6	14.49	25.5*25.5*26

Remark: data with 10% tolerance

### **【Precautions】**

- Please drive the led strip with 48VDC 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℃ -40℃. Storage temperature: 0℃ -60℃. 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).
- Do not scratch the product when IP process of the product is NA. Ultraviolet rays will damage the nano-layers on the product and seriously affect the life of the product.