

PRO Series Specification

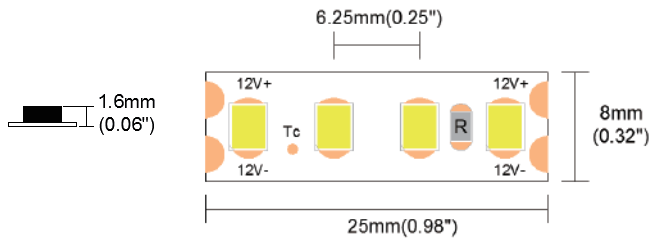
# D8160

## 12V-8mm-14.4W



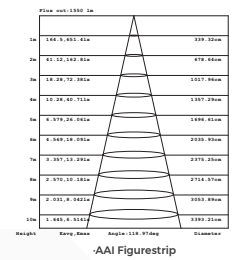
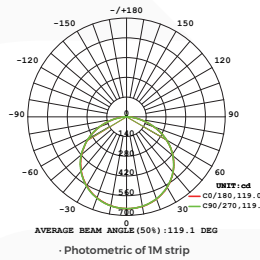
## 【General description】

- Luminance efficiency up to 155LM/W
- 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: DC12V               | Max.length: 3000mm(9.84')              |
| CRI: 80/90/95                      | Cutting unit: 4leds/25mm(0.98")        |
| Max.power: 14.4W(1m)               | LED pitch: 6.25mm(0.25")               |
| Power range: 11.7~14.4W(1m)        | Min. bend diameter: $\Phi$ 60mm(2.36") |
| Rated current: 1.08A(1m) /1.5A(3m) | Mounting: 3M tape                      |
| Typical Power: 13W(1m) /30W(3m)    | Copper foil: 3oz                       |
| tape IP: IP20/IP65/IP67/IP68       |  |
| On-off times: 10000 (test times)   |  |
| Warranty: 5years                   |  |

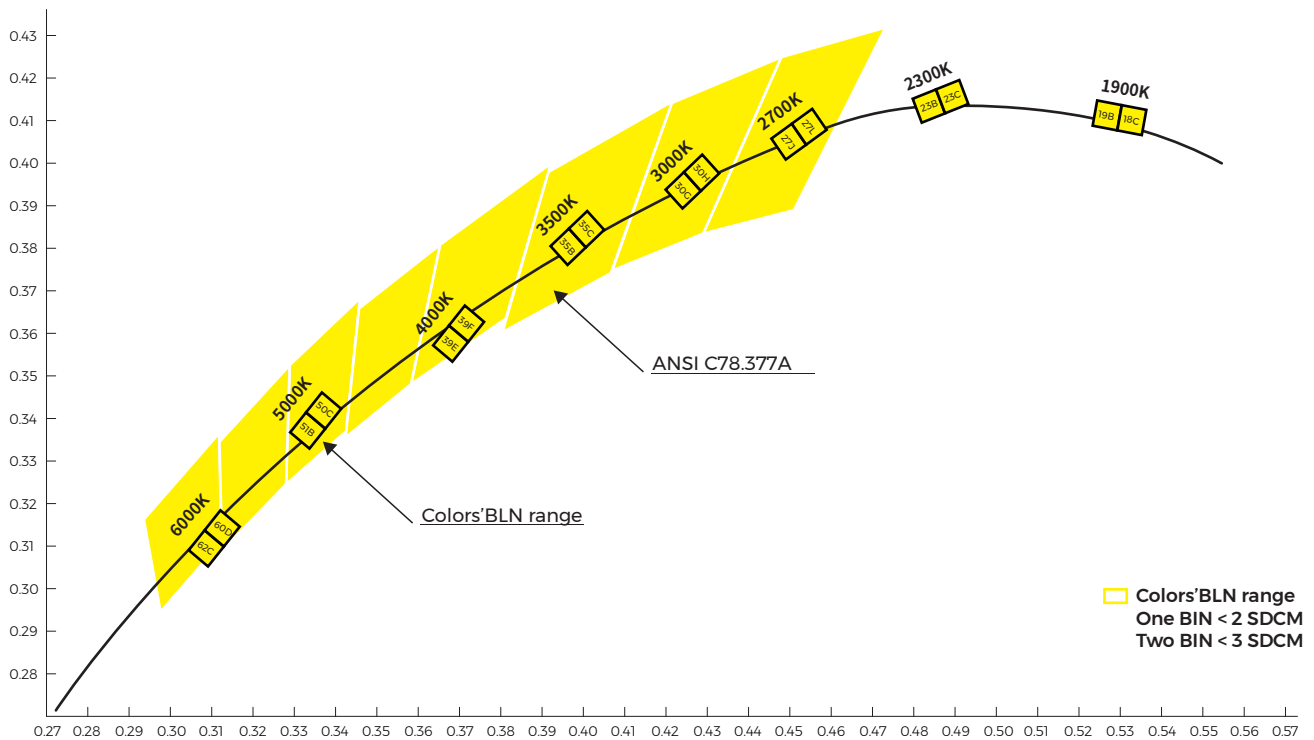


## 【Photo-electric Parameters】

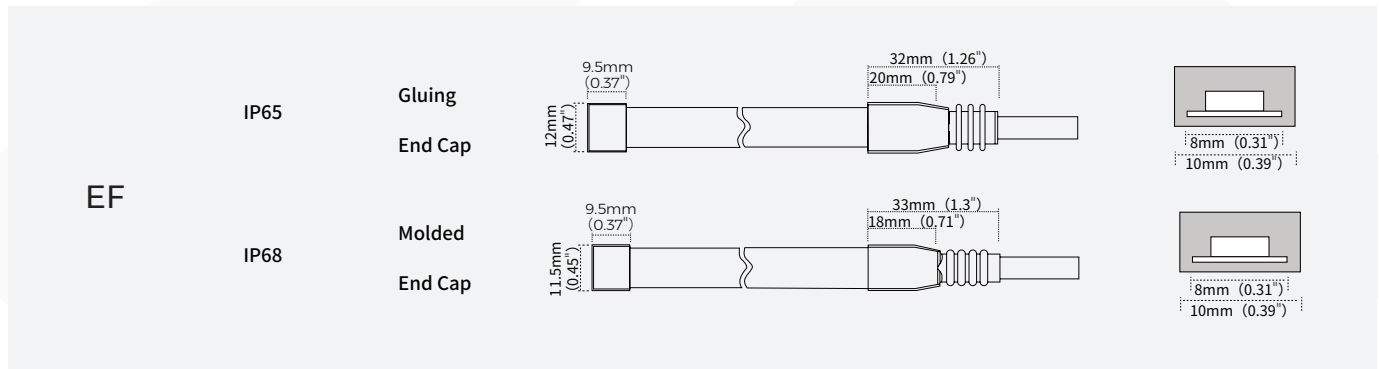
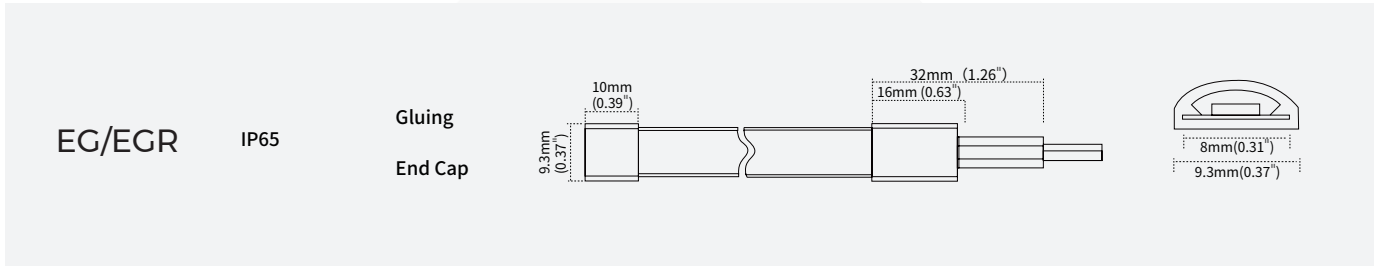
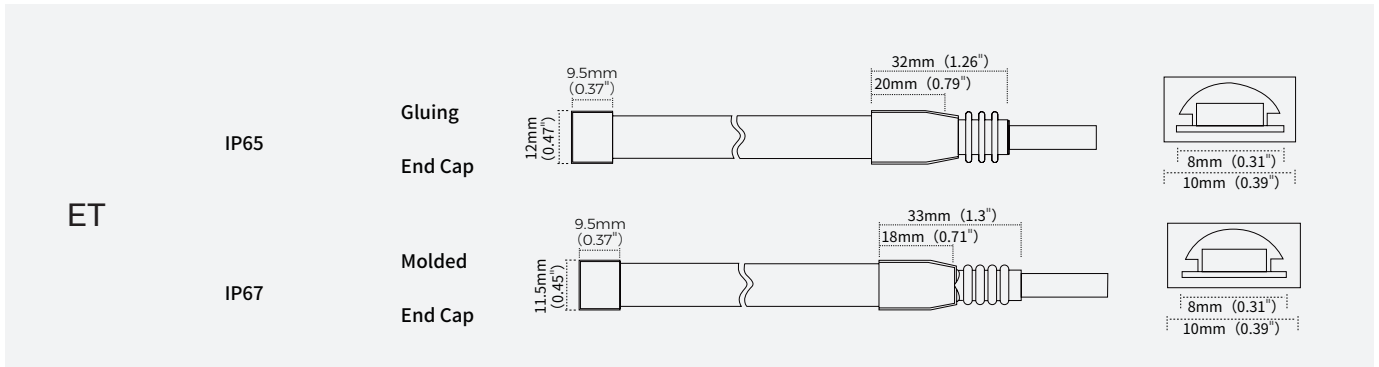
CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>80	CW	1900K	1530	465	118	F
Ra>80	LW	2300K	1700	515	131	E
Ra>80	SW	2700K	1835	555	141	E
Ra>80	WW	3000K	1935	585	149	E
Ra>80	PW	3500K	1965	595	151	E
Ra>80	NW	4000K	2015	610	155	E
Ra>80	DW	5000K	2015	610	155	E
Ra>80	W	6000K	1935	585	149	E
Ra>90	LW	2300K	1390	420	107	F
Ra>90	SW	2700K	1505	455	116	F
Ra>90	WW	3000K	1585	480	122	F
Ra>90	PW	3500K	1610	490	124	F
Ra>90	NW	4000K	1650	500	127	F
Ra>90	DW	5000K	1650	500	127	F
Ra>90	W	6000K	1585	480	122	F

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>95	SW	2700K	1470	445	113	F
Ra>95	WW	3000K	1545	470	119	F
Ra>95	PW	3500K	1570	475	121	F
Ra>95	NW	4000K	1610	490	124	F
Ra>95	DW	5000K	1610	490	124	F
Ra>0	C	525nm	1170	355	90	/
Ra>0	B	470nm	260	80	20	/

- 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.





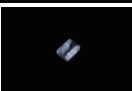




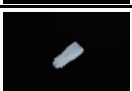

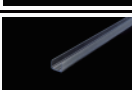
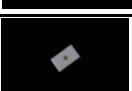



## 【IP process information】



## 【Electronic & output data】

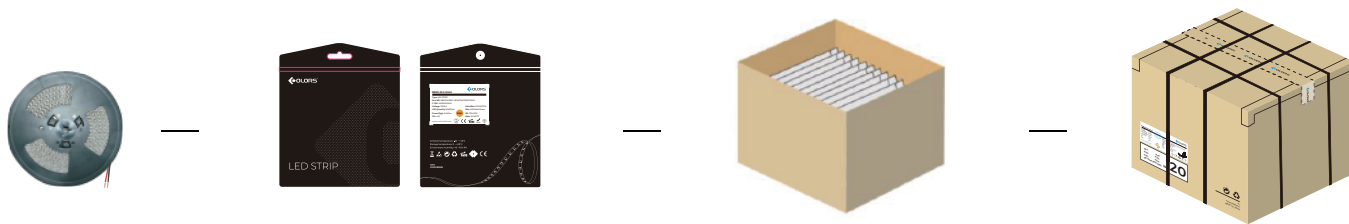
IP Process	Picture	Picture description	Size	optional CCT/color for finished product	lumen output rate
NO	 NO/IP20	No proof	8mm*1.5mm	1900K/2300K/2700K/3000K/3500K/ 4000K/5000K/6000K/G/B	100%
NA	 NANO/IP65	Nano-proof	8mm*1.6mm	1900K/2300K/2700K/3000K/3500K/ 4000K/5000K/6000K/G/B	98%
ET	 ET/IP67	Extrusion tube	10mm*4.8mm	1900K/2300K/2700K/3000K/3500K/ 4000K/5000K/6000K/G/B	88%
EG	 EG/IP65	Extrusion curved tube	9.3mm*3.8mm	1900K/2300K/2700K/3000K/3500K/ 4000K/5000K/6000K/G/B	88%
EGR	 EGR/IP65	Milky white all-inclusive hollow arc extrusion	9.3mm*3.8mm	2300K/2700K/3000K/4000K/G/B	85%
EF	 EF/IP68	Extrusion filling	10mm*5mm	2300K/2900K/3400K/3850K/5800K/ 8750K/15000K/G/B	86%

## 【Accessories Information】

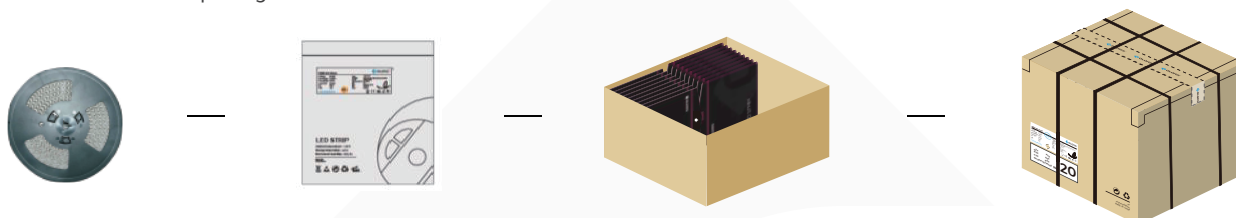
Name	Picture	Code	description
Connector for wire and FPC		94-42-620800001	8mm width, 2PIN connector of wire and FPC, suitable for white color strip, NO/NA, 2PIN wire18- 22AWG
Connector for FPC and FPC		94-42-620800002	8mm width, 2PIN connector of FPC and FPC, suitable for white color strip,NO/NA
Slim connector		81-01-000000-000064	Suitable for 8mm board width, IP20, 2PIN board-to-board solderless terminal
Slim connector		81-01-000000-000066	Suitable for 8mm board width, IP20, 2PIN wire- to-board solderless terminal
Fixed Clip		94-02-00-0002	Silicone clip, screw: PA 3*8mm, suitable for 8mm FPC,EF/ET strip
Gas phase rubber plug		18-01-08-0025	Translucent gas phase adhesive plug, suitable for 8mm wide silicone extrusion eg lamp with
Gas phase gel plugging		18-01-08-0026	Translucent gas phase adhesive plug, suitable for 8mm wide silicone extrusion eg lamp with end plug
Silicone Plug Kit		94-02-00-0044	Silicone plug kit, suitable for 8mm board width, ET/EF series silicone extrusion light strip
Silicone stopper kit		94-02-00-0045	Silicone tail plug kit, suitable for 8mm board width, ET/EF series silicone extrusion light strip
Mounting groove		94-02-00-0024	Transparent PVC mounting groove,suitable for 8mm FPC,silicone extruded EF/ET strip
ET solderless plug		94-03-00-0027	Monochromatic light strip, 8mm board width, ET protection technology
ET press-fit terminals		94-03-00-0028	Monochromatic light strip, 8mm board width, ET protection technology
ET press-fit terminal kit		94-03-00-0029	Monochromatic light strip, 8mm board width, ET protection technology
Stopper glue		94-16-03010001	Silicone gel,suitable for ET/EF/EG/ERG waterproof LED strip

## 【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*8*1.5	5	300	0.14	8.4	9.66	41*41*26
NA	5000*8*1.6	5	300	0.143	8.58	9.867	41*41*26
ET	5000*10*4.8	5	200	0.443	17.72	20.378	41*41*26
EG/EGR	5000*9.3*3.8	5	200	0.19	7.6	8.74	41*41*26
EF	5000*10*5	5	200	0.511	20.44	23.506	41*41*26

Remark: data with 10% tolerance

### · Engineering packaging of EG/EGR(IP65)/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*8*1.5	50	650	1.4	18.2	20.93	41*41*26
NA	50000*8*1.6	50	650	1.43	18.59	21.378	41*41*26
ET	50000*10*4.8	50	100	4.52	9.04	10.396	25.5*25.5*26
EG/EGR	50000*9.3*3.8	50	100	1.9	3.8	4.37	25.5*25.5*26
EF	50000*10*5	50	100	5.21	10.42	11.983	25.5*25.5*26

Remark:data with 10% tolerance

### **【Precautions】**

- Please drive the led strip with 12VDC 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 processof the product is NA. Ultraviolet rays will damage the nano-layers on the product and seriously affect the life of the product.