

Free cutting Series Specification

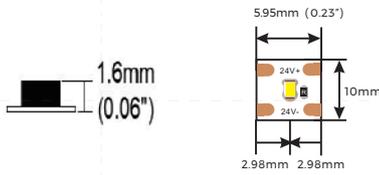
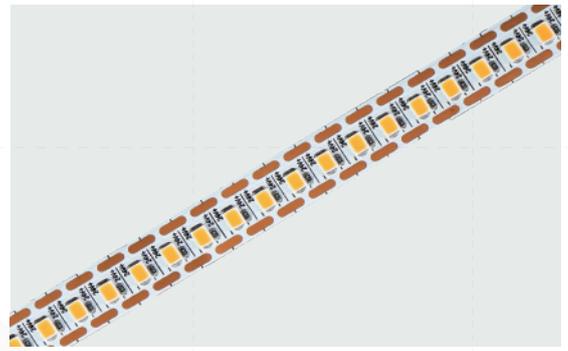
# D8168N

## 24V-10mm



## 【General description】

- 24V single lamp cut for more flexible application
- Mini cut unit up to 5.95mm
- Parameter matches with traditional ones, better for stock management
- Self-encapsulated design offers 5 optional 2300-6000K white lights



## 【Dimension】

Input voltage: DC24V

CRI: 90

Max.power: 18.6W(1m)

Power range: 13.8~18.6W(1m)

Rated current: 0.68A(1m) 2.53A(5m)

Typical Power: 16.2W(1m) 60.8W(5m)

tape IP: IP20/IP65/IP67

On-off times: 10000 (test times)

Warranty: 5years

(Warranty is based on indoor use)

Max.length: 5000mm(16.4')

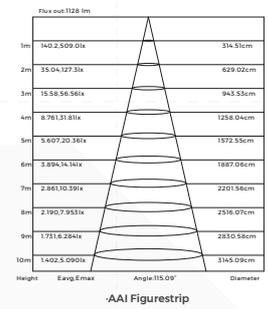
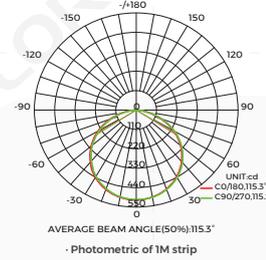
Cutting unit: 1leds/5.95mm(0.23")

LED pitch: 5.95mm(0.23")

Min. bend diameter:  $\Phi$ 60mm(2.36")

Mounting: 3M tape

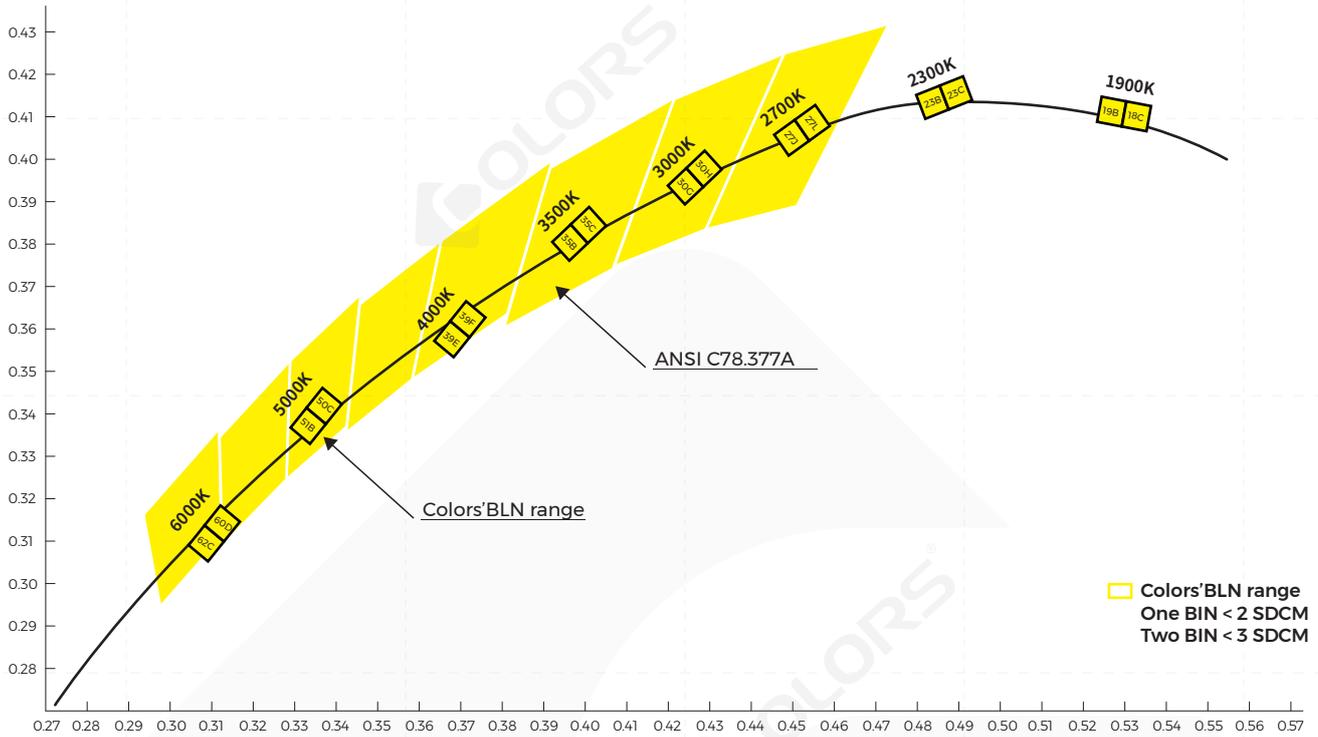
Copper foil: 3oz



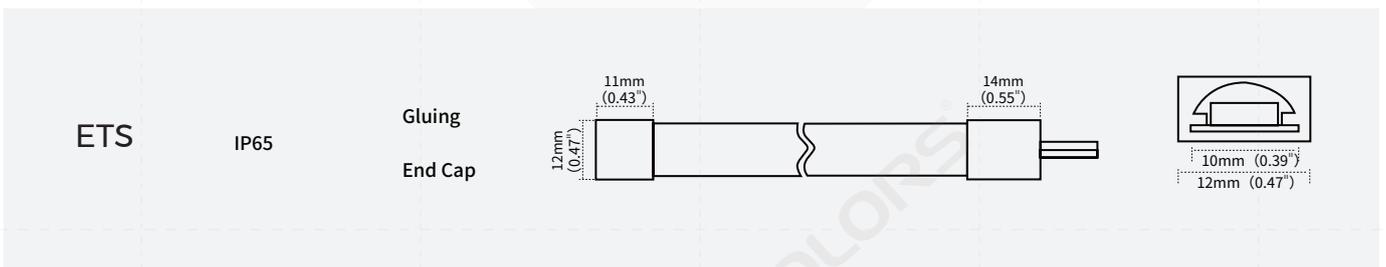
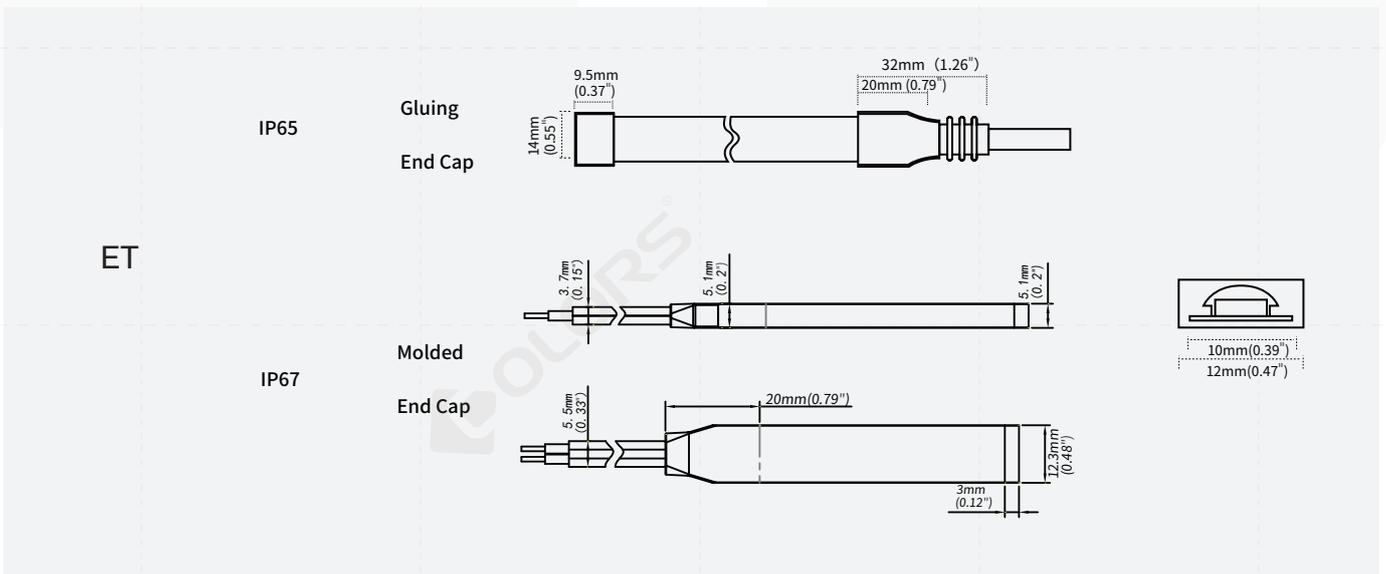
## 【Photo-electric Parameters】

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>90	LW	2300K	1340	408	86	G
Ra>90	SW	2700K	1295	394	83	G
Ra>90	WW	3000K	1380	420	87	G
Ra>90	NW	4000K	1465	446	94	F
Ra>90	W	6000K	1510	460	97	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.



**[IP process information]**



## 【Electronic & output data】

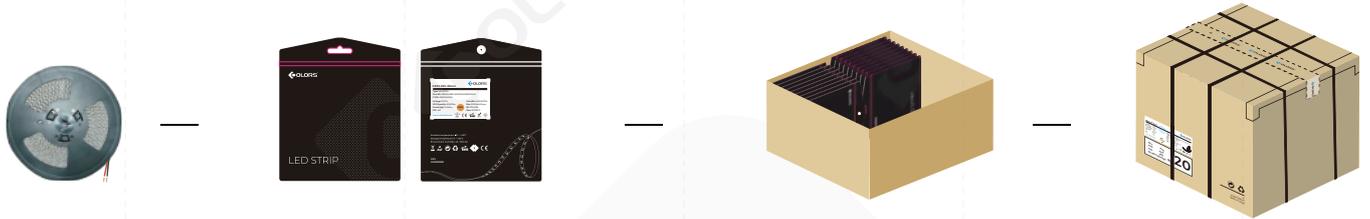
IP Process	Picture	Picture description	Size	optional CCT/color for finished product	lumen output rate
NO		No proof	10mm*1.5mm	2300K/2700K/3000K/4000K/6000K	100%
NA		Nano-proof	10mm*1.5mm	2300K/2700K/3000K/4000K/6000K	98%
ET		Extrusion tube	12mm*4.8mm	2300K/2700K/3000K/4000K/6000K	88%
ETS		Extrusion tube	12mm*4.8mm	2300K/2700K/3000K/4000K/6000K	88%

## 【Accessories Information】

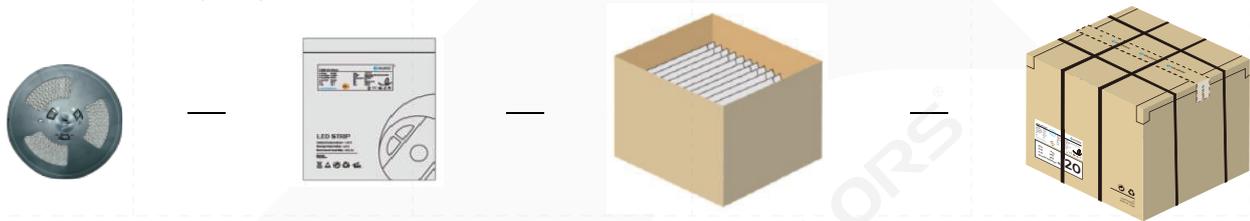
Name	Picture	Code	coding	description
Connector for wire and FPC		94-03-00-0037	TXB210-NOGA	10mm width, 2PIN connector of wire and FPC, suitable for white color strip, NO/NA, 2PIN wire 18- 22AWG
Connector for FPC and FPC		94-42-621020004	TBB210-NOGA	10mm width, 2PIN connector of FPC and FPC, suitable for white color strip, NO/NA
Slim connector		81-01-000000-000065	TBB210-NOTA	Suitable for 10mm board width, IP20, 2PIN board-to-board solderless terminal
Slim connector		81-01-000000-000067	TXB210-NOTA012	Suitable for 10mm board width, IP20, 2PIN wire- to-board solderless terminal
Fixed Clip		94-02-00-0003	FSW10SA	Silicone clip, screw: PA 3*8mm, suitable for 10mm FPC,EF/ET strip
ET press-fit terminals		94-03-00-0030	PT210-ETWA	Monochromatic light strip, 10mm board width, ET protection technology
ET press-fit terminals		94-03-00-0031	CBX210-ETWA020	Monochromatic light strip, 10mm board width, ET protection technology
ET press-fit terminal kit		94-03-00-0032	STBX210-ETWA020	Monochromatic light strip, 10mm board width, ET protection technology
Silicone Plug Kit		94-02-00-0046	DT10EA-A	Silicone plug kit is suitable for 10mm board width, ET/EF series silicone extrusion light strip
Silicone stopper kit		94-02-00-0047	DW10EA-A	Silicone tail plug kit is suitable for 10mm board width, ET/EF series silicone extrusion light strip
Mounting groove		94-02-00-0025	CVT10EA-14100100	Transparent PVC mounting groove, suitable for 10mm FPC, silicone extruded EF/ET strip
Stopper glue		94-16-03010001	AS-PG-0003	Silicone gel, suitable for ET/EF/EG 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*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
ET	5000*12*4.8	5	200	0.511	20.44	23.506	41*41*26
ETS	5000*12*4.8	5	200	0.5	20	23	41*41*26

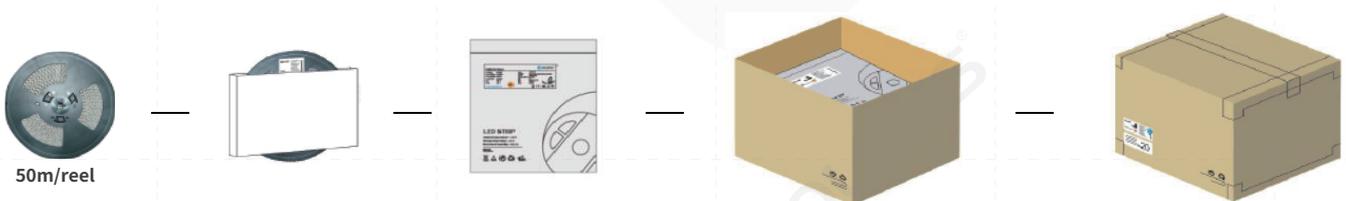
Remark: data with 10% tolerance

### · Engineering packaging of ET(IP67)

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



### · Engineering packaging of NO(IP20)/NA(IP65).



50m/reel

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
ETS	50000*12*4.8	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 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℃ -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.