HIGH EFFICIENCY Series | Specification

D8128

24V-8mm

E498657

E-mail:colors@colorsled.com

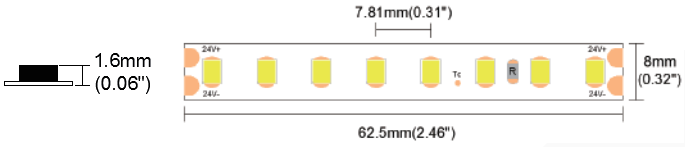
Version：A/02

www.colorsled.com

【General description】

· Luminance efficiency up to 160LM/W
· Self-encapsulated design offers eight optional 1900-6000K white lights
· With life span over 60000H
· Ta: -25~40°C; Tc: 75°C(max)
· UL/UACK/CE/ROHS/REACH certification

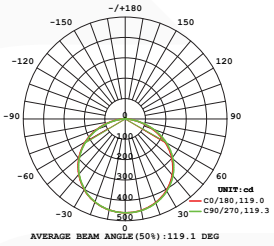




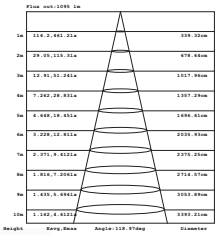
【Dimension】

Input voltage: DC24V
CRI: 80/90/95
Max.power: 9.6W(1m)
Power range: 7.8～9.6W(1m)
Rated current: 0.36A(1m) /1.5A(5m)
Typical Power: 8.7W(1m) /36W(5m)
tape IP: IP20/IP65/IP67
On-off times: 10000（test times）
Warranty: 5 years indoor / 3 years outdoor

Max.length: 5000mm(16.4')
Cutting unit: 8leds/62.5mm(2.46")
LED pitch: 7.81mm(0.31")
Min. bend diameter: Φ60mm(2.36")
Mounting: 3M tape
Copper foil: 3oz



· Photometric of 1M strip

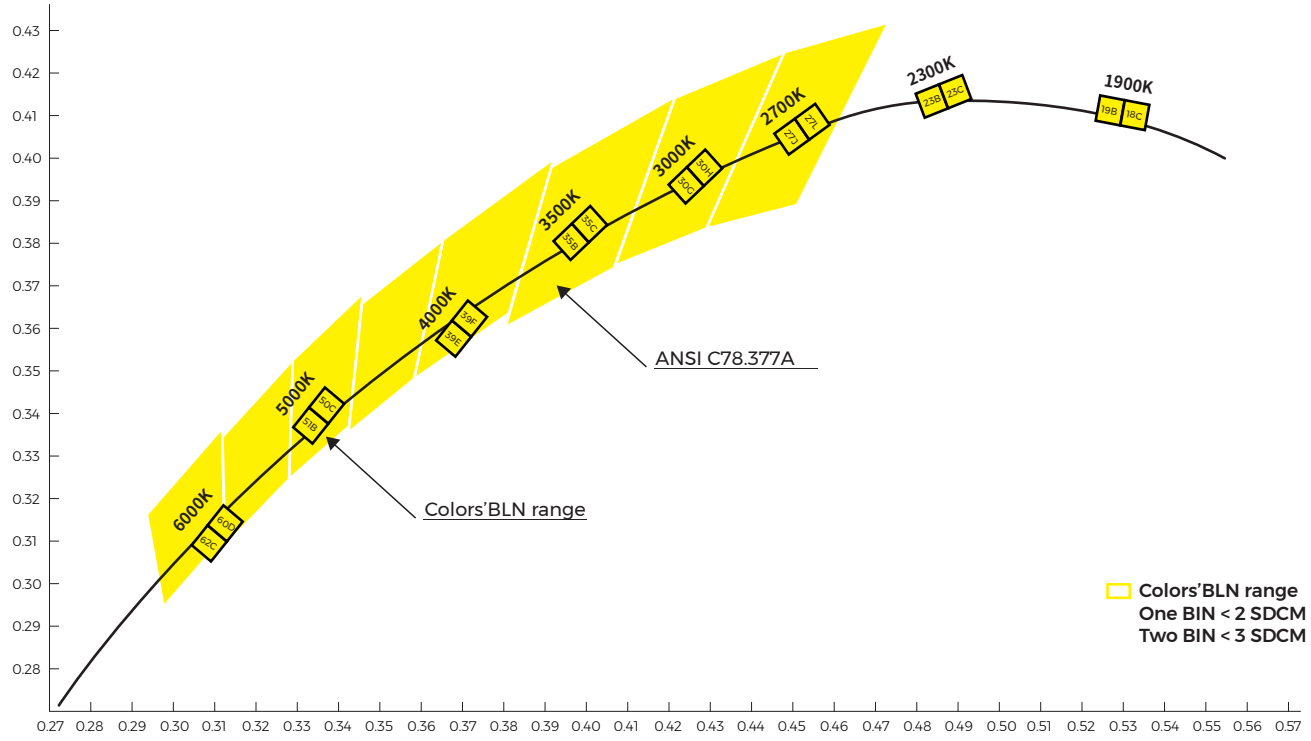

· AAI Figurestrip

【Photo-electric Parameters】

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>80	GW	1900K	1055	320	121	E
Ra>80	LW	2300K	1175	355	135	E
Ra>80	SW	2700K	1270	385	146	D
Ra>80	WW	3000K	1335	405	153	D
Ra>80	PW	3500K	1355	410	156	D
Ra>80	NW	4000K	1390	420	160	D
Ra>80	DW	5000K	1390	420	160	D
Ra>80	W	6000K	1335	405	153	D
Ra>90	GW	1900K	865	260	99	F
Ra>90	LW	2300K	960	292	110	F
Ra>90	SW	2700K	1035	315	119	E
Ra>90	WW	3000K	1090	330	125	E
Ra>90	PW	3500K	1105	335	127	E
Ra>90	NW	4000K	1135	346	130	E
Ra>90	DW	5000K	1135	345	130	E
Ra>90	W	6000K	1090	330	125	E

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>95	GW	1900K	835	250	96	F
Ra>95	LW	2300K	930	280	107	F
Ra>95	SW	2700K	1005	305	116	F
Ra>95	WW	3000K	3060	320	122	E
Ra>95	PW	3500K	1075	325	124	E
Ra>95	NW	4000K	1105	335	127	E
Ra>95	DW	5000K	1105	335	127	E
Ra>0	G	525nm	825	250	95	/
Ra>0	B	470nm	175	50	20	/

1.The tolerance of output data can be vary up to 10%.
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.



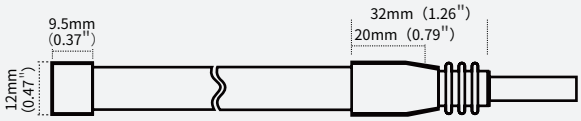
【IP process information】

ET

IP65

Gluing

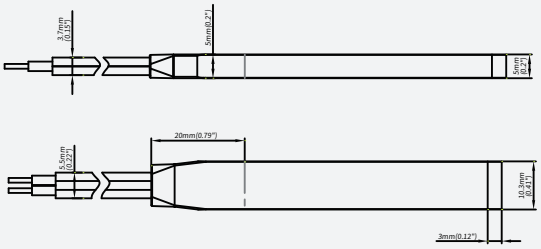
End Cap

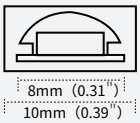


IP67

Molded

End Cap



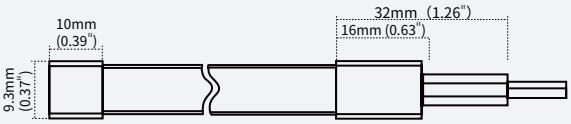


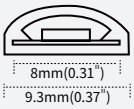
EG/EGR

IP65

Gluing

End Cap





EF

IP65

Gluing

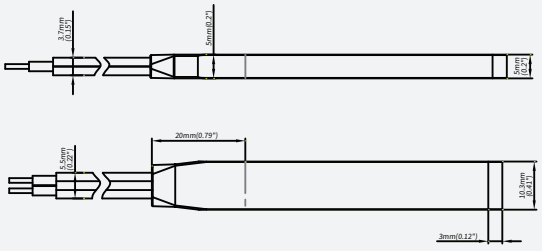
End Cap

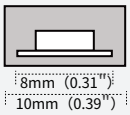


IP67

Molded

End Cap



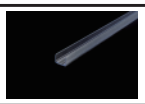


【Electronic & output data】

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

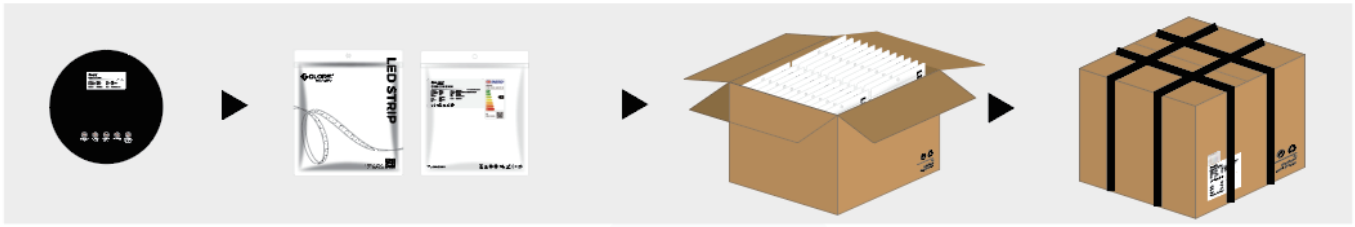
【Accessories Information】

Name	Picture	Code	coding	description
Connector for wire and FPC		94-42-620800001	TXB208-NOGA	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	TBB208-NOGA	8mm width, 2PIN connector of FPC and FPC, suitable for white color strip,NO/NA
Fixed Clip		94-02-00-0002	FSW08SA	Silicone clip, screw: PA 3*8mm, suitable for 8mm FPC,EF/ET strip
Gas phase rubber plug		94-02-00-0038	DT08EG-A	Translucent gas phase adhesive plug, suitable for 8mm wide silicone extrusion eg lamp with
Gas phase gel plugging		94-02-00-0039	DW08EG-A	Translucent gas phase adhesive plug, suitable for 8mm wide silicone extrusion eg lamp with end plug

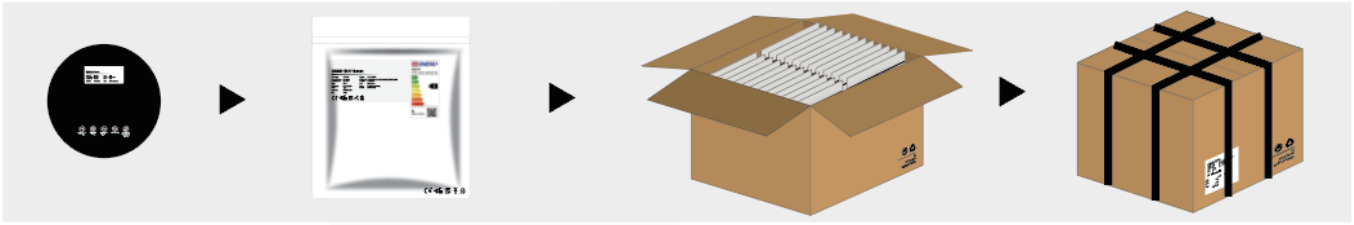
Name	Picture	Code	coding	description
Silicone Plug Kit		94-02-00-0044	DT08EA-A	Silicone plug kit, suitable for 8mm board width, ET/EF series silicone extrusion light strip
Silicone stopper kit		94-02-00-0045	DW08EA-A	Silicone tail plug kit, suitable for 8mm board width, ET/EF series silicone extrusion light strip
Mounting groove		94-02-00-0024	CVT08EA-12100100	Transparent PVC mounting groove,suitable for 8mm FPC,silicone extruded EF/ET strip
Stopper glue		94-16-03010001	AS-PG-0003	Silicone gel,suitable for ET/EF/EG waterproof LED strip
ET solderless plug		94-03-00-0027	PT208-ETWA	Monochromatic light strip, 8mm board width, ETS protection technology
ET press-fit terminals		94-03-00-0028	CBX208-ETWA020	Monochromatic light strip, 8mm board width, ETS protection technology
ET press-fit terminal kit		94-03-00-0029	STBX208-ETWA020	Monochromatic light strip, 8mm board width, ETS protection technology

【Packing】

Colors brand package



General customized package

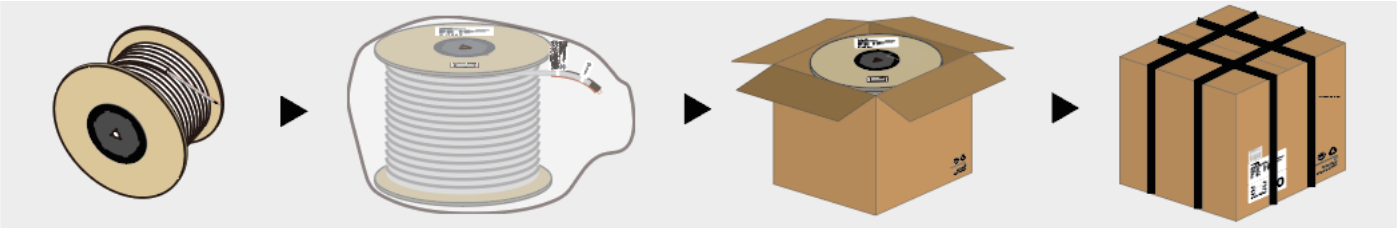


IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box(kg)	Gross weight(kg)	Package size (cm)
NO	5000*8*1.5	5	300	0.134	8.04	9.246	41*41*26
NA	5000*8*1.6	5	300	0.137	8.22	9.453	41*41*26
ET	5000*10*4.8	5	200	0.459	18.36	21.114	41*41*26
EG/EGR	5000*9.3*3.8	5	200	0.216	8.64	9.936	41*41*26
EF	5000*10*5	5	200	0.505	20.2	23.23	41*41*26

Remark: data with 10% tolerance

· **Engineering packaging of EG/EGR(IP65)/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*8*1.5	50	650	1.34	17.42	20.033	41*41*26
NA	50000*8*1.6	50	650	1.37	17.81	20.48	41*41*26
ET	50000*10*4.8	50	100	4.68	9.36	10.764	25.5*25.5*26
EG/EGR	50000*9.3*3.8	50	100	2.16	4.32	4.968	25.5*25.5*26
EF	50000*10*5	50	100	5.15	10.3	11.845	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 processof the product is NA. Ultraviolet rays will damage the nano-layers on the product and seriously affect the life of the product.