COLORS
Linear Lighting

PRO Series | Specification

CR8120

24V-8mm

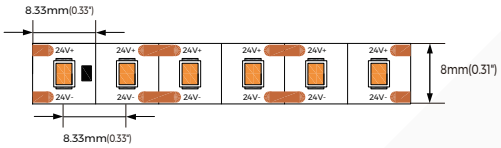
E-mail:colors@colorsled.com

Version：A/00

www.colorsled.com

【General description】

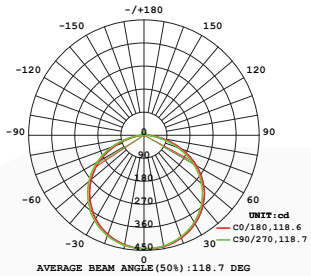
· Reel to reel process, no soldering joint.
· 24V single LED per cut for more flexible application
· Mini cut unitting up to 8.33mm
· Parameter matches with traditional ones,better for stock management
· Self-encapsulated design offers 6 optional 2300-6000K white lights
· With life span over 60000H
· Ta: -25~40°C；Tc：75°C(max)



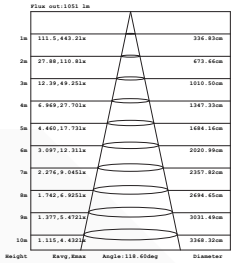
【Dimension】

Input voltage：DC24V
CRI：90
Max.power: 10.56W(1m) 5.28W(1m)
Power range: 8.64～10.56W(1m)
4.32～5.28W(1m)
Rated current：0.4A(1m) 0.2A(1m)
Typical Power：9.6W(1m) 4.8W(1m)
tape IP： IP20/IP65/IP67
On-off times: 10000（test times）
Warranty： 5years

Max.length： 5000mm(16.4')
Cutting unit：1leds/8.33mm(0.33")
LED pitch：8.33mm(0.33")
Min. bend diameter：Φ60mm(2.36")
Mounting： 3M tape
Copper foil: 3oz



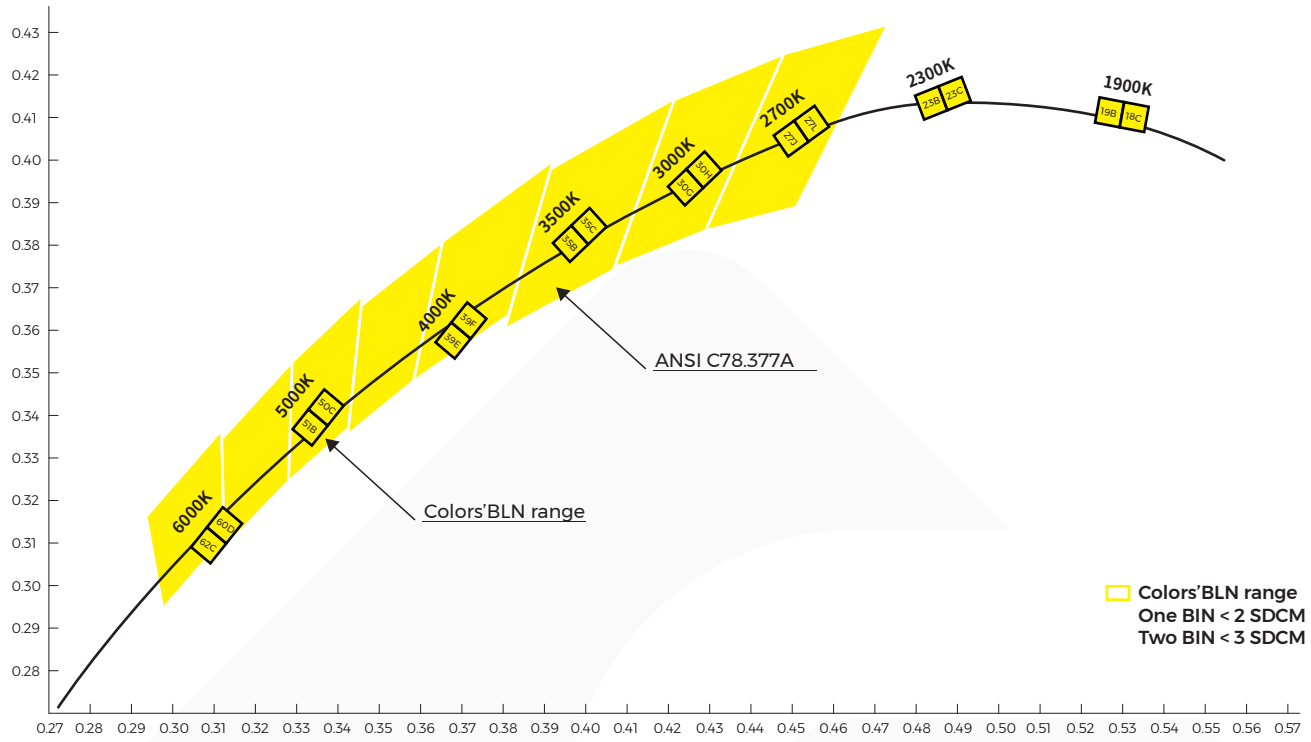
· Photometric of 1M strip


· AAI Figurestrip

【Photo-electric Parameters】

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>90(4.8W)	LW	2300K	530	161	110	F
Ra>90(4.8W)	SW	2700K	570	173	120	F
Ra>90(4.8W)	WW	3000K	620	189	130	E
Ra>90(4.8W)	PW	3500K	650	198	135	E
Ra>90(4.8W)	NW	4000K	670	204	140	E
Ra>90(4.8W)	W	6000K	640	195	134	E
Ra>90(9.6W)	LW	2300K	1000	304	105	F
Ra>90(9.6W)	SW	2700K	1100	335	117	F
Ra>90(9.6W)	WW	3000K	1220	371	127	E
Ra>90(9.6W)	PW	3500K	1240	378	129	E
Ra>90(9.6W)	NW	4000K	1300	396	136	E
Ra>90(9.6W)	W	6000K	1260	384	131	E

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.



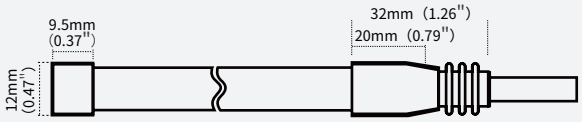
【IP process information】

ET

IP65

Gluing

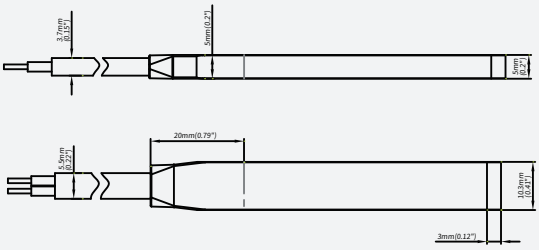
End Cap

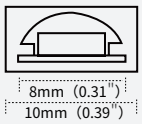


IP67

Molded

End Cap



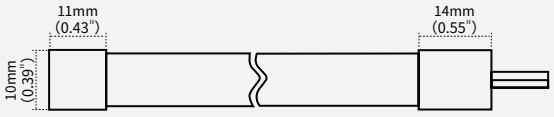


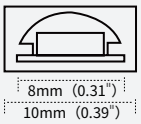
ETS

IP65

Gluing

End Cap





Remark：IP20 strip have two kinds of wire, PVC wire is used for UL strip , and parallel wire is used for non-UL strip.

【Electronic & output data】

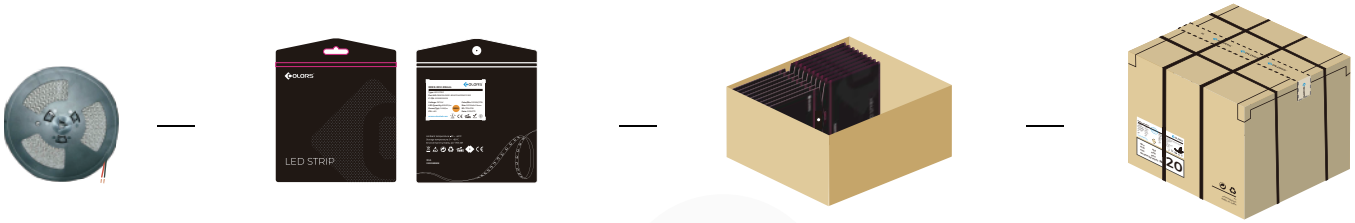
IP Process	Picture	Picture description	Size	optional CCT/color for finished product	lumen output rate
NO		No proof	8mm*1.5mm	2300K/2700K/3000K/3500K/4000K/6000K	100%
NA		Nano-proof	8mm*1.6mm	2300K/2700K/3000K/3500K/4000K/6000K	98%
ET		Extrusion tube	10mm*4.8mm	2300K/2700K/3000K/3500K/4000K/6000K	88%
ETS		Extrusion tube	10mm*4.8mm	2300K/2700K/3000K/3500K/4000K/6000K	88%

【Accessories Information】

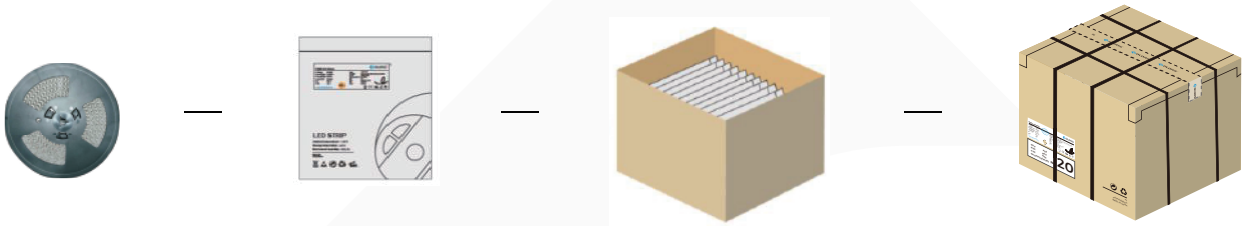
Name	Picture	Code	coding	description
Fixed Clip		94-02-00-0002	FSW08SA	Silicone clip, screw: PA 3*8mm, suitable for 8mm FPC,EF/ET strip
ET press-fit terminals		94-03-00-0027	PT208-ETWA	Monochromatic light strip, 8mm board width, ETS protection technology
ET press-fit terminals		94-03-00-0028	CBX208-ETWA020	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
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
Connector for FPC and FPC		/	CXB208-DFTA	2PIN,wire to board(without wire),suitable for 8mm single color IP20 strips
Connector for wire and FPC		/	CBB208-DFTA	2PIN,board to board,suitable for 8mm single color IP20 strips
L-connector for FPC and FPC		/	CBBL208-DFTA	2PIN,board to board(L shape),suitable for 8mm single color IP20 strips

【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	0.135	8.1	9.315	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	0.46	18.4	21.16	41*41*26
ETS	5000*9.3*3.8	5	200	0.45	18	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*8*1.5	50	650	1.35	17.55	20.182	41*41*26
NA	50000*8*1.6	50	650	1.37	17.81	20.481	41*41*26
ET	50000*10*4.8	50	100	4.7	9.4	10.81	25.5*25.5*26
ETS	50000*10*4.8	50	100	4.7	9.4	10.81	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.