

ECO Series Specification

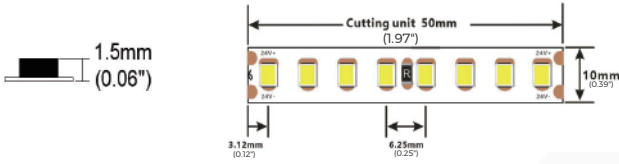
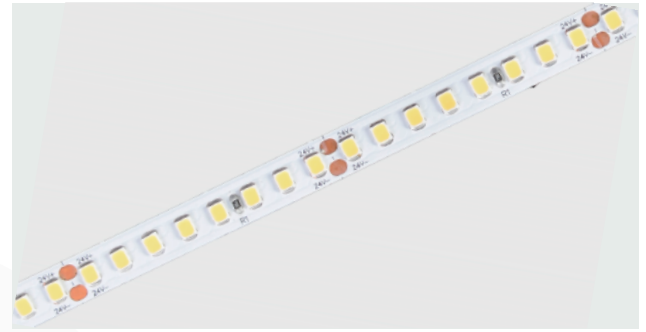
DR8160

24V-10mm



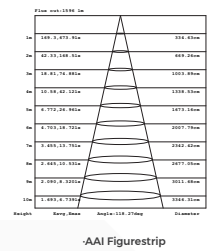
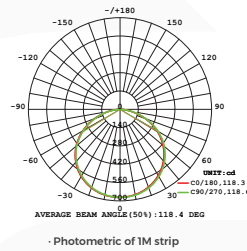
【General description】

- Reel to reel process, no soldering joint with max. 25m
- 157LM/W, new ErP D class
- With life span over 60000H, LM80 proved
- Ta: -25-40°C; Tc: 75°C (max)



【Dimension】

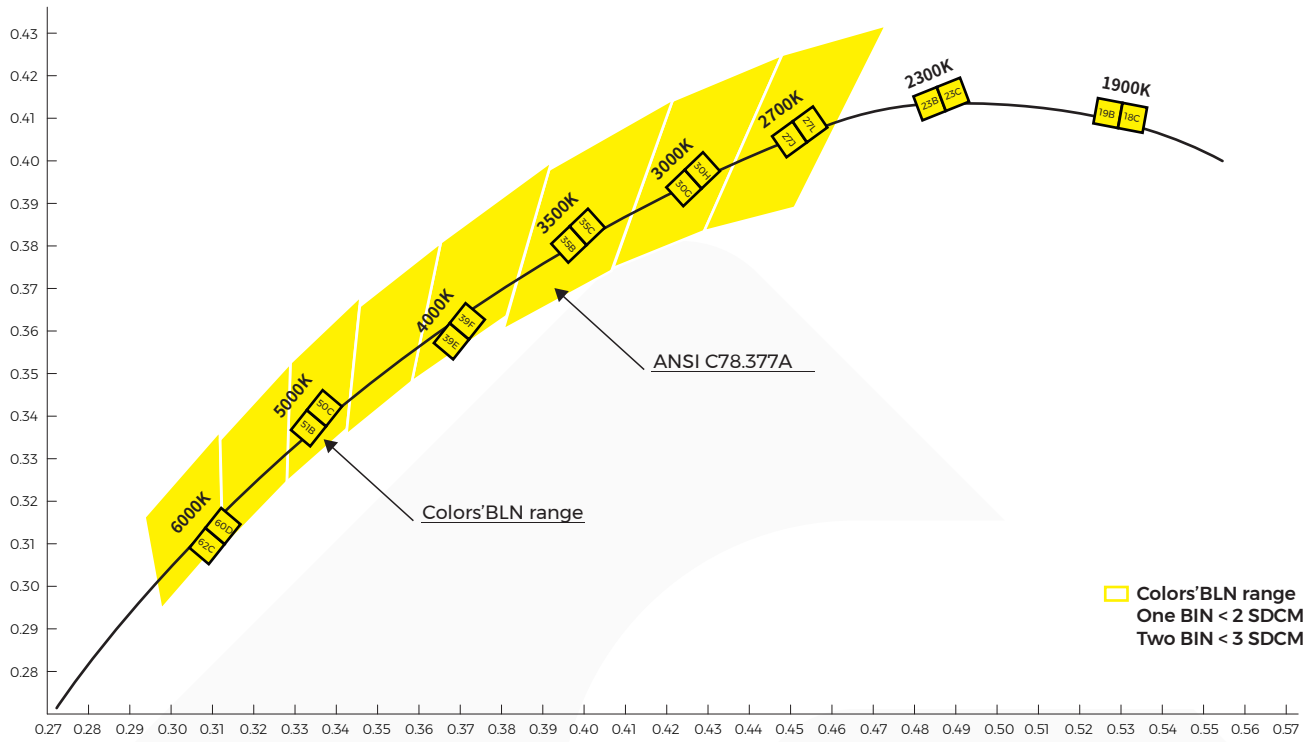
- | | |
|------------------------------------|--|
| Input voltage: DC24V | Max.length: 5000mm(16.4') |
| CRI: 80 | Cutting unit: 8leds/50mm(1.97") |
| Max.power: 14.4W(1m) | LED pitch: 6.25mm(0.25") |
| Power range: 11.7~14.4W(1m) | Min. bend diameter: Φ 60mm(2.36") |
| Rated current: 0.54A(1m) /2.3A(5m) | Mounting: 3M tape |
| Typical Power: 13W(1m) /55.25W(5m) | Copper foil: 2oz |
| tape IP: IP20/IP65/IP67 | |
| On-off times: 10000 (test times) | |
| Warranty: 5years | |
| (Warranty is based on indoor use) | |



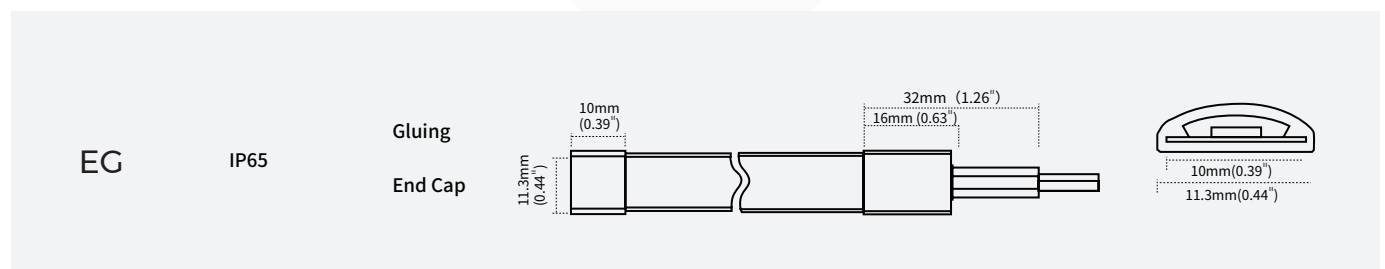
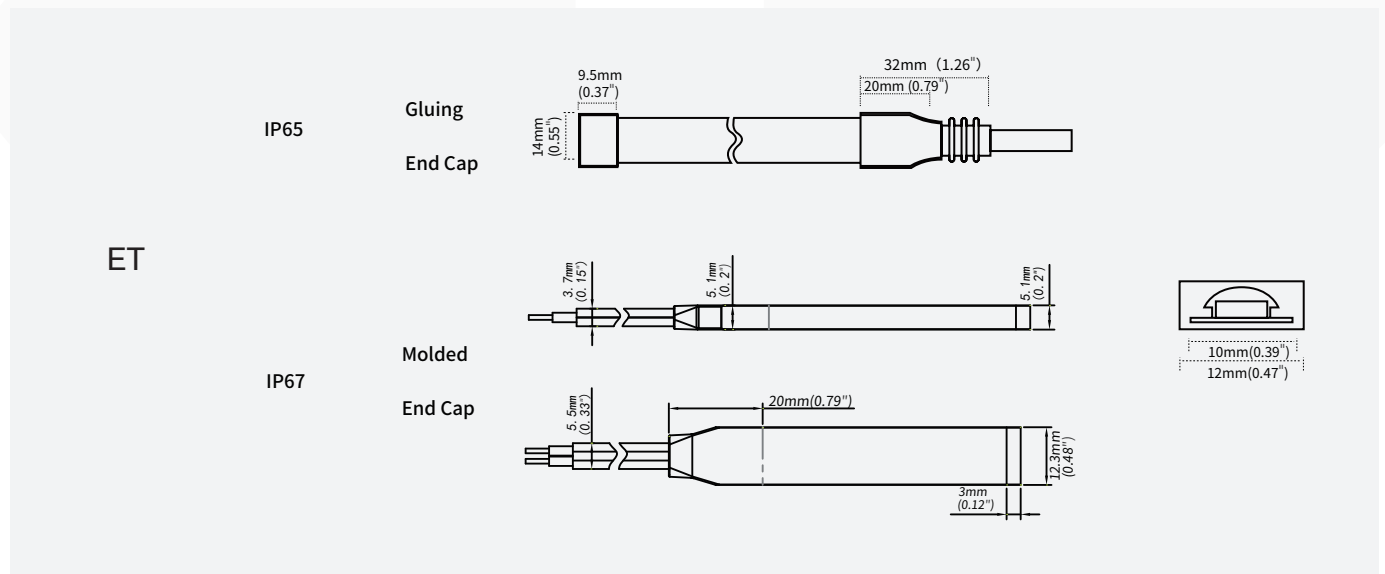
【Photo-electric Parameters】

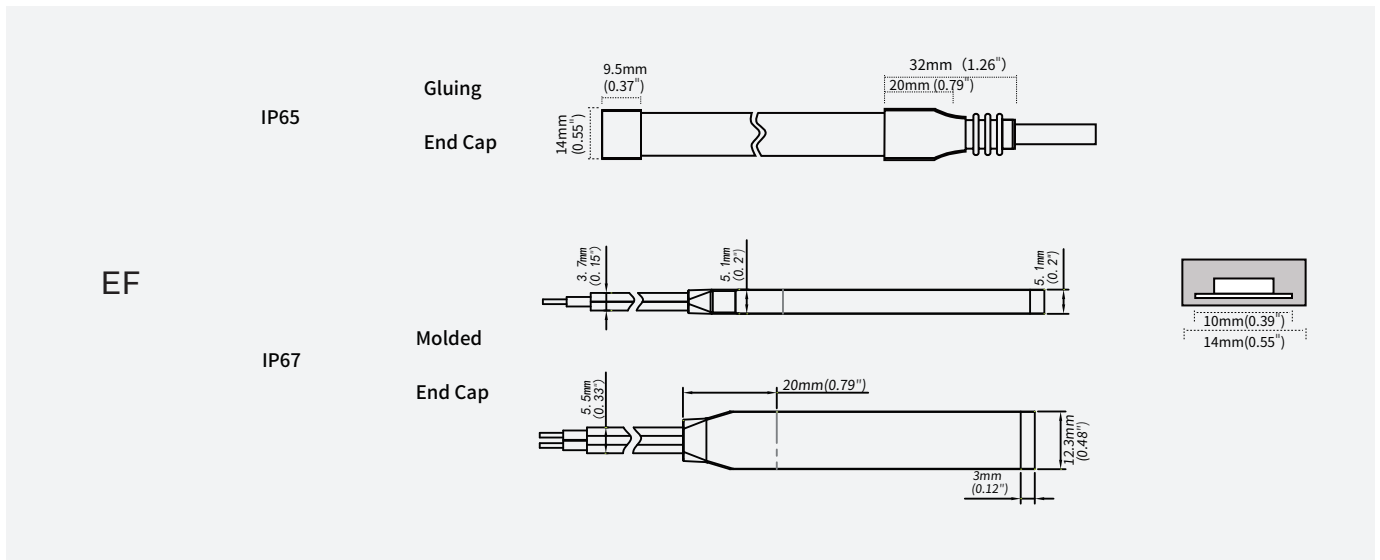
| CRI | Color | CCT | Lumen(lm/m) | Lumen(lm/ft) | lm/W | ErP 2019 |
|-------|-------|-------|-------------|--------------|------|----------|
| Ra>80 | SW | 2700K | 1950 | 595 | 150 | D |
| Ra>80 | WW | 3000K | 2015 | 610 | 155 | D |
| Ra>80 | NW | 4000K | 2040 | 620 | 157 | D |
| Ra>80 | W | 6000K | 2000 | 605 | 154 | D |

- 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.





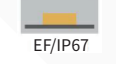


[IP process information]



















【Electronic & output data】

| IP Process | Picture | Picture description | Size | optional CCT/color for finished product | lumen output rate |
|------------|---|-----------------------|--------------|---|-------------------|
| NO |  | No proof | 10mm*1.5mm | 2700K/3000K/4000K/6000K | 100% |
| NA |  | Nano-proof | 10mm*1.6mm | 2700K/3000K/4000K/6000K | 98% |
| ET |  | Extrusion tube | 12mm*4.8mm | 2700K/3000K/4000K/6000K | 88% |
| EG |  | Extrusion curved tube | 11.3mm*3.8mm | 2700K/3000K/4000K/6000K | 88% |
| EF |  | Extrusion filling | 12mm*5mm | 3400K/3850K/5800K/15000K | 86% |

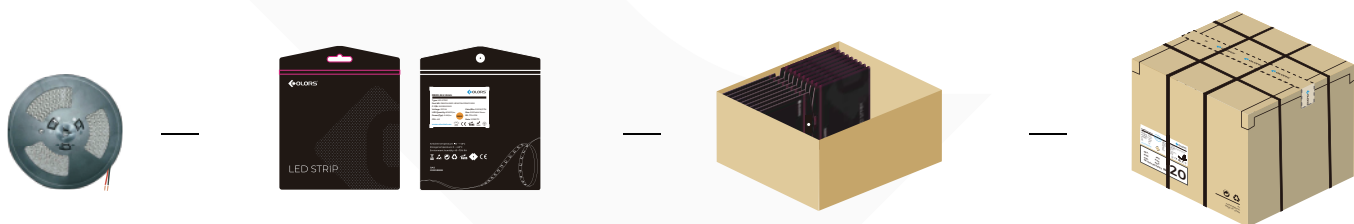
【Accessories Information】

| Name | Picture | Code | coding | description |
|--------------------------------------|---|---------------------|-------------|--|
| Connector for FPC and FPC |  | 81-01-000002-000038 | CBB210-NOTA | 10MM-2P solder-free connector (board to board)\ suitable for bare board 10mm width strip light |
| Connector for wire and FPC |  | 81-01-000002-000039 | CXB210-NOTA | 10MM-2P solderless connector(wire to board)\ Compatible with 20&22AWG wire\20#(6A);22#(4A)\ Applicable to bare board 10mm width lamp strip |
| Protective connector for FPC and FPC |  | 81-01-000002-000056 | CBB210-EFWA | 10MM-2P protective solderless connector (board to-board)\applicable to 10mm width\ EF lamp strip |
| Protective connector for FPC and FPC |  | 81-01-000002-000057 | CXB210-EFWA | 10MM-2P protective solderless connector(wire to board)\20AWG wire(6A)\applicable to 10mm width\EF lamp strip |

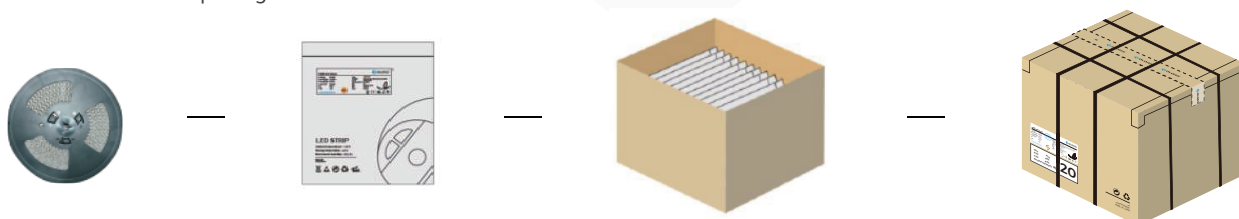
| Name | Picture | Code | coding | description |
|---------------------------|---|----------------|------------------|--|
| Fixed Clip |  | 94-02-00-0003 | FSW10SA | Silicone clip, screw: PA 3*8mm, suitable for 10mm FPC,EF/ET strip |
| Gas phase rubber plug |  | 94-02-00-0040 | DT10EG-A | Translucent gas phase adhesive plug, suitable for 10mm wide silicone extrusion eg lamp with plug |
| Gas phase gel plugging |  | 94-02-00-0041 | DW10EG-A | Translucent gas phase adhesive plug, suitable for 10mm wide silicone extrusion eg lamp with end plug |
| 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 |
| ET solderless plug |  | 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 |

[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 | 300 | 0.14 | 8.4 | 9.66 | 41*41*26 |
| NA | 5000*10*1.6 | 5 | 300 | 0.143 | 8.58 | 9.867 | 41*41*26 |
| ET | 5000*12*4.8 | 5 | 200 | 0.443 | 17.72 | 20.378 | 41*41*26 |
| EG | 5000*11.3*3.8 | 5 | 200 | 0.19 | 7.6 | 8.74 | 41*41*26 |
| EF | 5000*12*5 | 5 | 200 | 0.511 | 20.44 | 23.506 | 41*41*26 |

Remark: data with 10% tolerance

· **Engineering packaging of 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*10*1.5 | 50 | 650 | 1.4 | 18.2 | 20.93 | 41*41*26 |
| NA | 50000*10*1.6 | 50 | 650 | 1.43 | 18.59 | 21.378 | 41*41*26 |
| ET | 50000*12*4.8 | 50 | 100 | 4.52 | 9.04 | 10.396 | 25.5*25.5*26 |
| EG | 50000*11.3*3.8 | 50 | 100 | 1.9 | 3.8 | 4.37 | 25.5*25.5*26 |
| EF | 50000*12*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 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).
- ATTENTION, there are 2 soldering parts per reel (5m/reel) at most when mass production, just for few reels.
- 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.