

PRO Series Specification

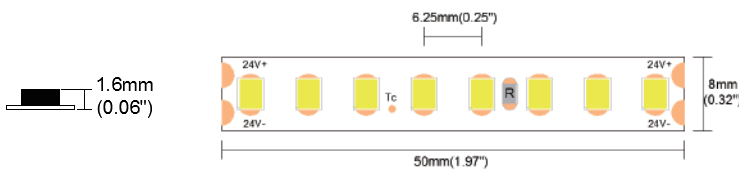
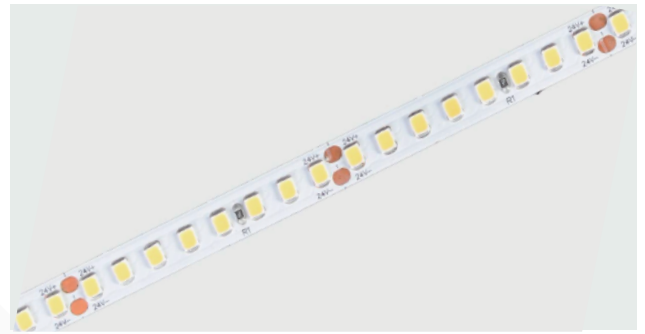
D8160

24V-8mm-14.4W



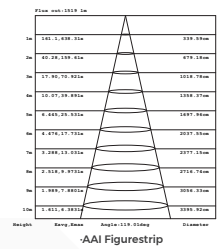
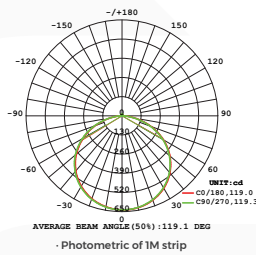
【General description】

- 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: DC24V | Max.length: 5000mm(16.4') |
| CRI: 80/90/95 | 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: Φ60mm(2.36") |
| Rated current: 0.54A(1m) /2.4A(5m) | Mounting: 3M tape |
| Typical Power: 13W(1m) /57.6W(5m) | Copper foil: 3oz |
| tape IP: IP20/IP65/IP67/IP68 | |
| On-off times: 10000 (test times) | |
| Warranty: 5years | |

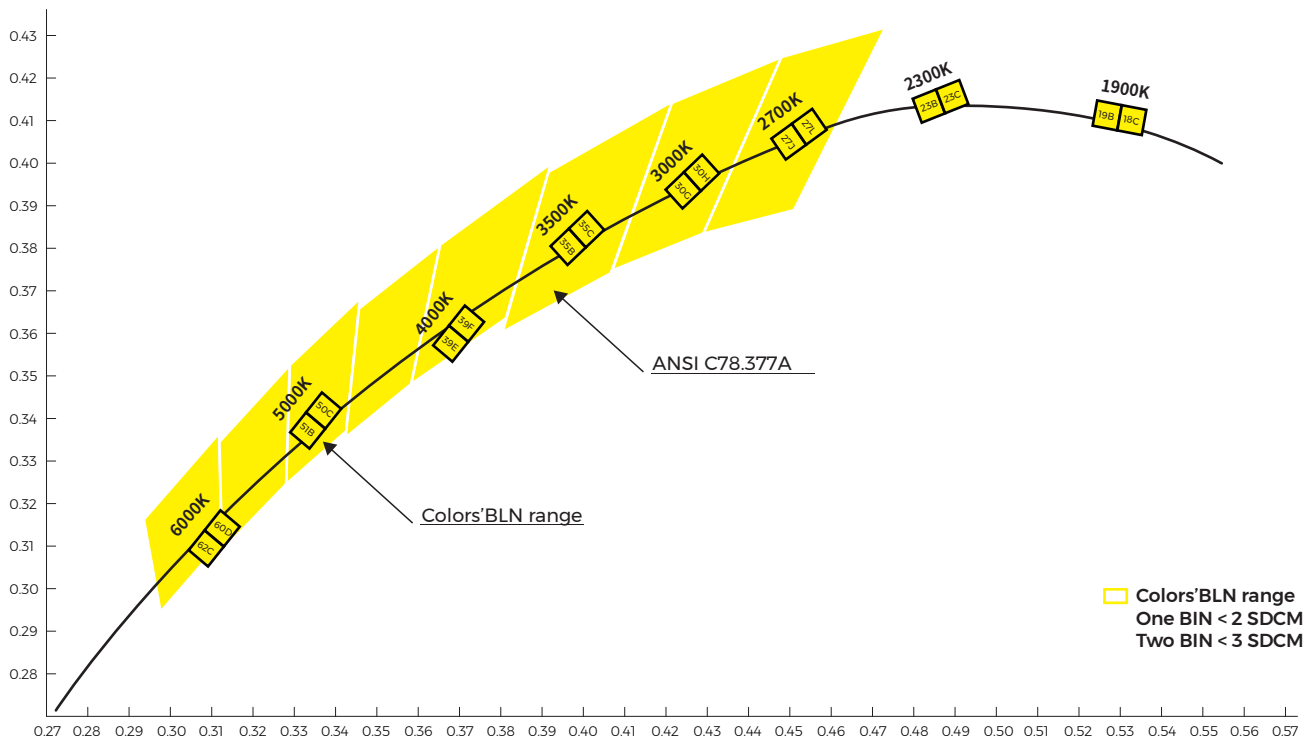


【Photo-electric Parameters】

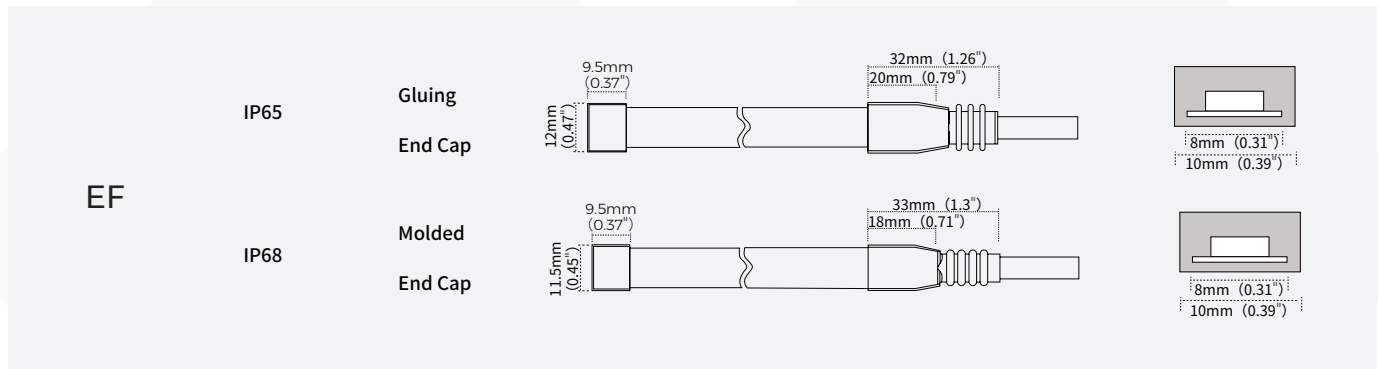
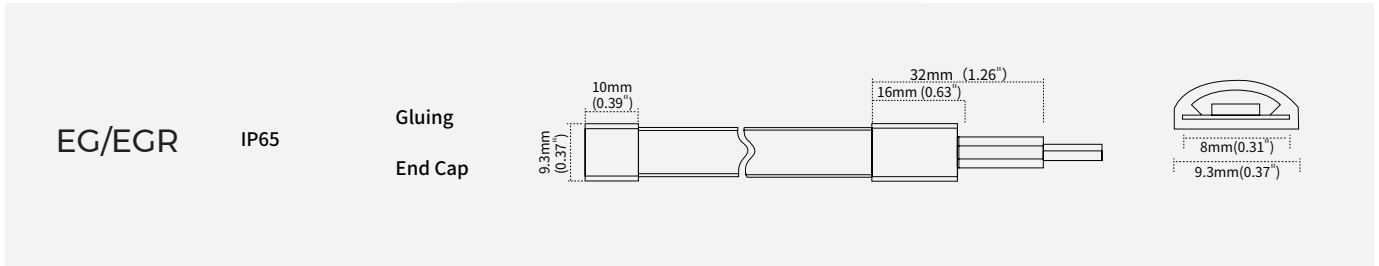
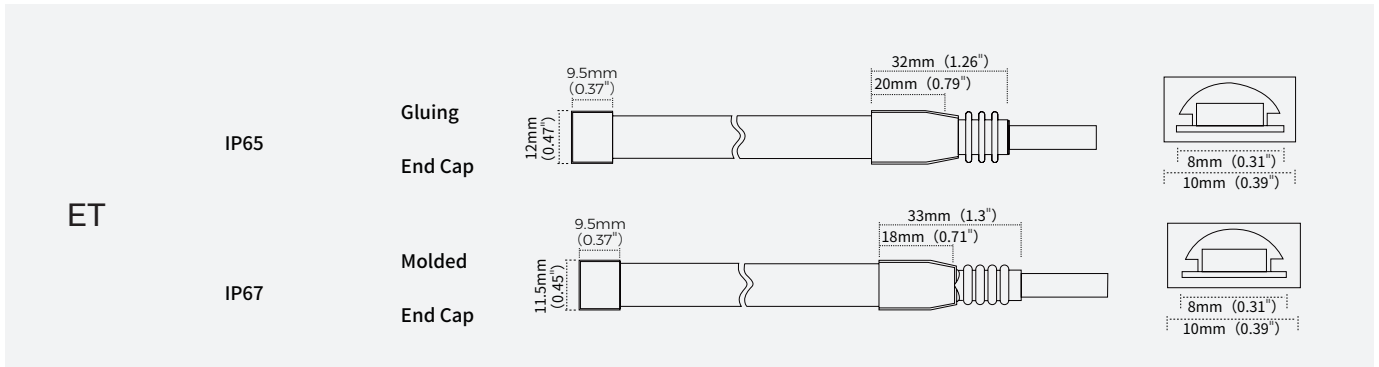
| CRI | Color | CCT | Lumen(lm/m) | Lumen(lm/ft) | lm/W | ErP 2019 |
|-------|-------|-------|-------------|--------------|------|----------|
| Ra>80 | CW | 1900K | 1530 | 465 | 118 | F |
| Ra>80 | LW | 2300K | 1700 | 515 | 131 | E |
| Ra>80 | SW | 2700K | 1835 | 555 | 141 | E |
| Ra>80 | WW | 3000K | 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 | 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.




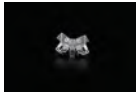





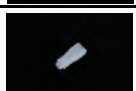





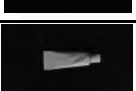
【IP process information】



【Electronic & output data】

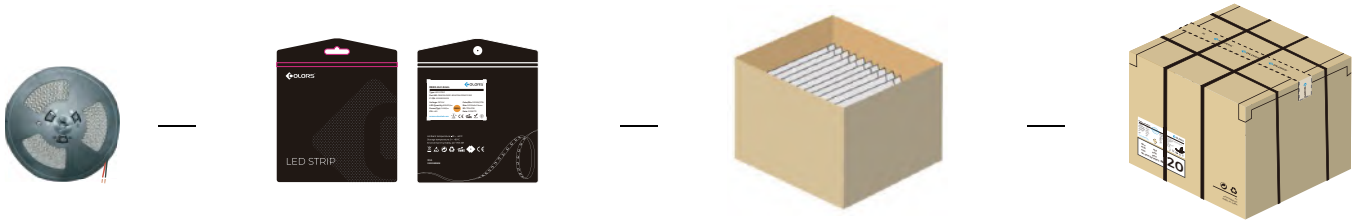
| IP Process | Picture | Picture description | Size | optional CCT/color for finished product | lumen output rate |
|------------|---------------|--|-------------|---|-------------------|
| NO | NO/IP20 | No proof | 8mm*1.5mm | 1900K/2300K/2700K/3000K/3500K/ 4000K/5000K/6000K/G/B | 100% |
| NA | NANO/IP65 | 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】

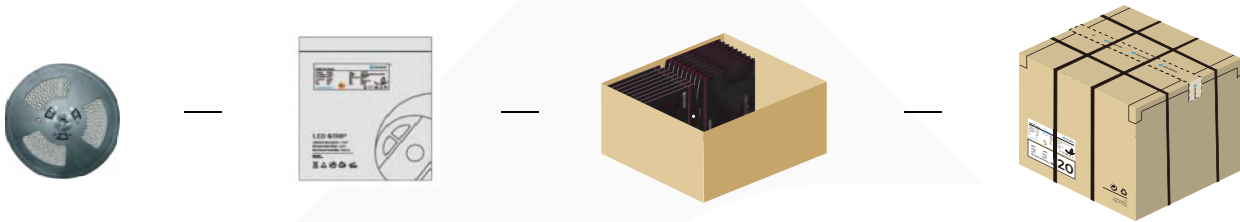
| Name | Picture | Code | description |
|----------------------------|---|---------------------|--|
| Connector for wire and FPC |  | 94-42-620800001 | 8mm width, 2PIN connector of wire and FPC, suitable for white color strip, NO/NA, 2PIN wire18- 22AWG |
| Connector for FPC and FPC |  | 94-42-620800002 | 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 |

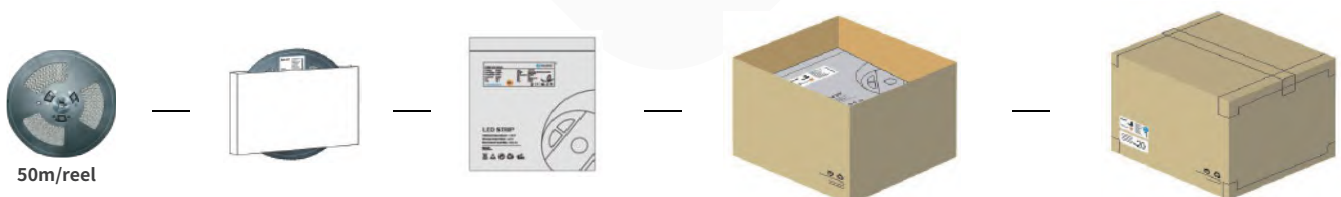
Remark: data with 10% tolerance

· 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 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.