

# EST-FS5630C-180-24-Y

① ② ③ ④ ⑤

## High Light Efficiency

200LM/W

RA 80+ SMD5630 Series  
RA 90+ Available

### Product Features

1. Low-voltage 24VDC and 12VDC,high light efficiency.
2. Energy-saving,eco-friendly,anti-UV and no optical radiation.
3. SMD 5630,1chip inside.
4. CRI:RA 80+ (RA 90+ is available).
5. White,brown,black FPC for option,but our standard FPC color is white.

### Color

2700K 3000K 4000K 5000K 6500K

### Input DC Voltage

24VDC | 12VDC

### LED Type

SMD5630

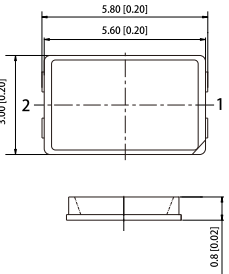
### LED Qty.per meter

224 | 180 | 126 | 112  
72 | 64 | 60

### IP Index

IP20 | IP54 | IP65  
IP67 | IP68

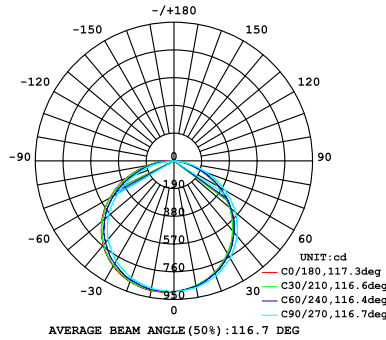
| Model                                                                                         | Color temp. | Luminous Flux@65mA |      | I <sub>F</sub> |       | CRI(Ra) |
|-----------------------------------------------------------------------------------------------|-------------|--------------------|------|----------------|-------|---------|
|                                                                                               |             | Min.               | Max. | Current        | Max.  |         |
|  SMD5630 | 2700K       | 33LM               | 37LM | 65mA           | 150mA | 80+     |
|                                                                                               | 3000K       | 33LM               | 37LM | 65mA           | 150mA | 80+     |
|                                                                                               | 4000K       | 33LM               | 37LM | 65mA           | 150mA | 80+     |
|                                                                                               | 5000K       | 33LM               | 37LM | 65mA           | 150mA | 80+     |
|                                                                                               | 6500K       | 33LM               | 37LM | 65mA           | 150mA | 80+     |



High Light Efficiency  
RA 80+ SMD5630

Part Number:EST-FS5630C-180-24-Y

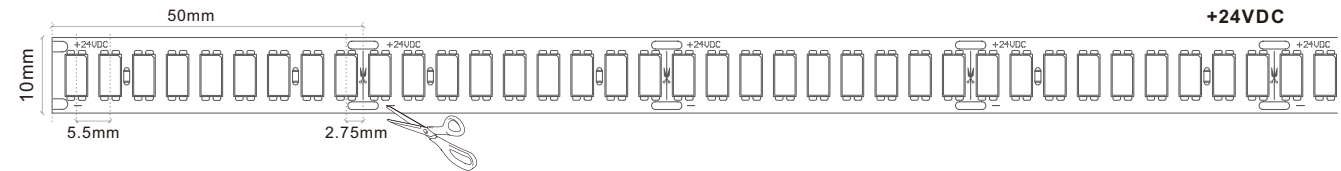
| Model                 | Color temp. | LM/M   | Power/M | Light efficiency | CRI (Ra) | FPC copper |
|-----------------------|-------------|--------|---------|------------------|----------|------------|
| EST-FS5630WW-180-24-Y | 2700K       | 3264LM | <19.2W  | 170LM/W          | 80+      | 3OZ        |
| EST-FS5630WW-180-24-Y | 3000K       | 3456LM | <19.2W  | 180LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-180-24-Y | 4000K       | 3840LM | <19.2W  | 200LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-180-24-Y | 5000K       | 3744LM | <19.2W  | 195LM/W          | 80+      | 3OZ        |
| EST-FS5630PW-180-24-Y | 6500K       | 3684LM | <19.2W  | 192LM/W          | 80+      | 3OZ        |



Super High Efficiency  
200LM/W



Strip length: CE:500CM UL:13.12FT

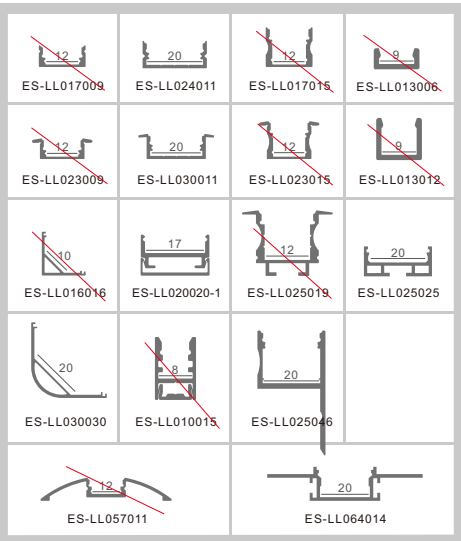


IP Rating:

- ☒ IP20---Non waterproof
- ☒ IP54---Nano coated
- ☒ IP65---Silicon coated
- ☒ IP67---Silicon coated & Wrapped heat shrink tube
- ☒ IP67---PVC extrusion
- ☒ IP67---Silicon extrusion
- ☒ IP67---Silicon tube(transparent)
- ☒ IP68---Silicon tube(transparent) & Inject silicon glue



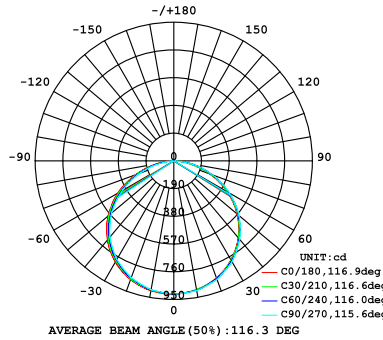
AL. profiles (mm)



High Light Efficiency  
RA 80+ SMD5630

Part Number:EST-FS5630C-126-24-Y

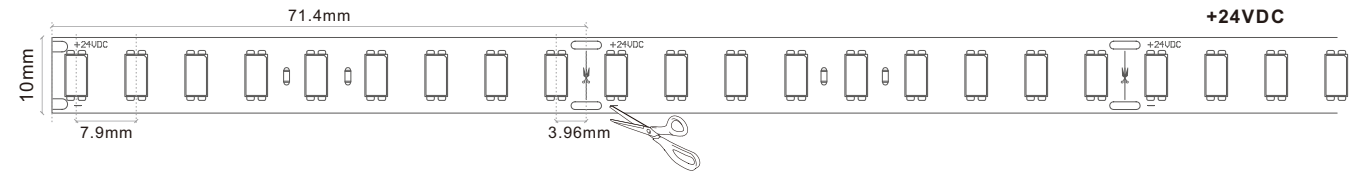
| Model                 | Color temp. | LM/M   | Power/M | Light efficiency | CRI (Ra) | FPC copper |
|-----------------------|-------------|--------|---------|------------------|----------|------------|
| EST-FS5630WW-126-24-Y | 2700K       | 2448LM | <14.4W  | 170LM/W          | 80+      | 3OZ        |
| EST-FS5630WW-126-24-Y | 3000K       | 2592LM | <14.4W  | 180LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-126-24-Y | 4000K       | 2880LM | <14.4W  | 200LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-126-24-Y | 5000K       | 2808LM | <14.4W  | 195LM/W          | 80+      | 3OZ        |
| EST-FS5630PW-126-24-Y | 6500K       | 2765LM | <14.4W  | 192LM/W          | 80+      | 3OZ        |



Super High Efficiency  
200LM/W



Strip length: CE:500CM UL:13.12FT

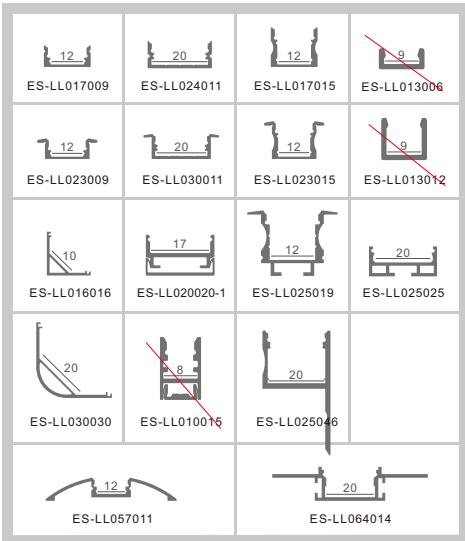


IP Rating:

- ☒ IP20---Non waterproof
- ☒ IP54---Nano coated
- ☒ IP65---Silicon coated
- ☒ IP67---Silicon coated & Wrapped heat shrink tube
- ☒ IP67---PVC extrusion
- ☒ IP67---Silicon extrusion
- ☒ IP67---Silicon tube(transparent)
- ☒ IP68---Silicon tube(transparent) & Inject silicon glue

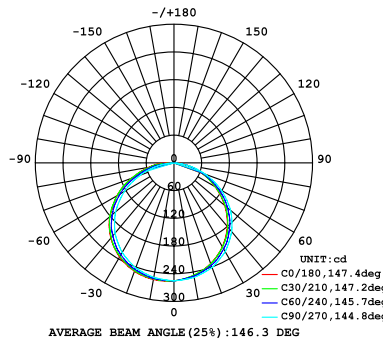


AL. profiles (mm)



Part Number:EST-FS5630C-72-24-Y

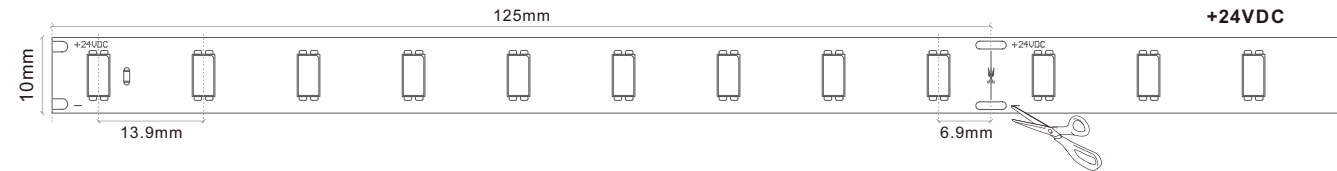
| Model                | Color temp. | LM/M   | Power/M | Light efficiency | CRI (Ra) | FPC copper |
|----------------------|-------------|--------|---------|------------------|----------|------------|
| EST-FS5630WW-72-24-Y | 2700K       | 1632LM | <9.6W   | 170LM/W          | 80+      | 3OZ        |
| EST-FS5630WW-72-24-Y | 3000K       | 1728LM | <9.6W   | 180LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-72-24-Y | 4000K       | 1920LM | <9.6W   | 200LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-72-24-Y | 5000K       | 1872LM | <9.6W   | 195LM/W          | 80+      | 3OZ        |
| EST-FS5630PW-72-24-Y | 6500K       | 1843LM | <9.6W   | 192LM/W          | 80+      | 3OZ        |



Super High Efficiency  
200LM/W

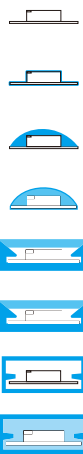


Strip length: CE:500CM UL:13.12FT



IP Rating:

- ✓ IP20---Non waterproof
- ✓ IP54---Nano coated
- ✓ IP65---Silicon coated
- ✓ IP67---Silicon coated & Wrapped heat shrink tube
- ✓ IP67---PVC extrusion
- ✓ IP67---Silicon extrusion
- ✓ IP67---Silicon tube(transparent)
- ✓ IP68---Silicon tube(transparent) & Inject silicon glue



AL. profiles (mm)

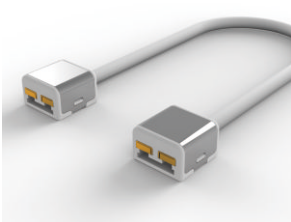
|                                                                                                     |                                                                                                        |                                                                                                      |                                                                                                      |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <br>ES-LL017009 | <br>ES-LL024011   | <br>ES-LL017015 | <br>ES-LL013006 |
| <br>ES-LL023009 | <br>ES-LL030011   | <br>ES-LL023015 | <br>ES-LL013012 |
| <br>ES-LL016016 | <br>ES-LL020020-1 | <br>ES-LL025019 | <br>ES-LL025025 |
| <br>ES-LL030030 | <br>ES-LL010015   | <br>ES-LL025046 |                                                                                                      |
| <br>ES-LL057011 | <br>ES-LL064014   |                                                                                                      |                                                                                                      |

Specification of 10A connector

Picture



IP20 connector  
10A(tape to wire)



IP20 Jumper connector 10A  
(tape-wire-tape)

Featrues

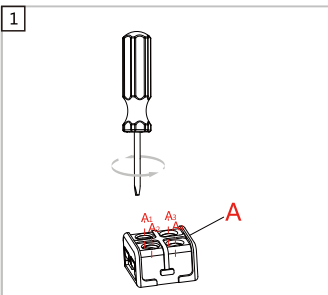
- Load large current, **up to 10A**.
- Suitable for **10 mm, 8 mm** width FPC.
- **High density** tape light is available.
- Housing 41°C,terminal 47°C when 10A current.
- **Can laser customer logo on the cover.**

Basic parameter

| Input voltage | IP rating | Rated current | Product dimension | Materials                                           | Working environment | Installation method |
|---------------|-----------|---------------|-------------------|-----------------------------------------------------|---------------------|---------------------|
| 12VDC / 24VDC | IP20      | 10A           | 14mm*14mm*8.8mm   | High temperture<br>resistance heat<br>PC+65% copper | -10°~45°            | Screws              |

Installation

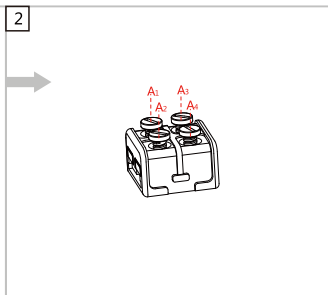
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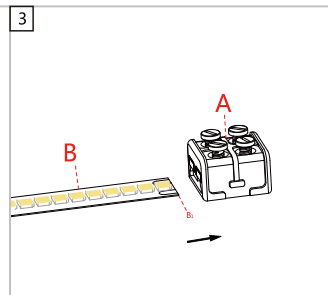
1. Take out connector A (Ip20), loosening screws with scw driver (A1,A2,A3,A4) (Picture 1).

2. Place it in the proper position(picture 2).

2



3

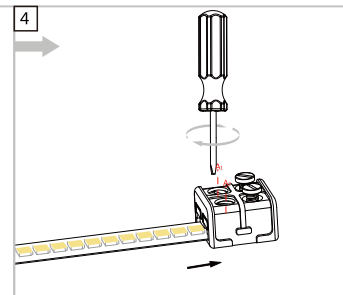


1. Take out strip B, push one end (B1) towards connector A (IP20), until it stick in the gap(picture 3).

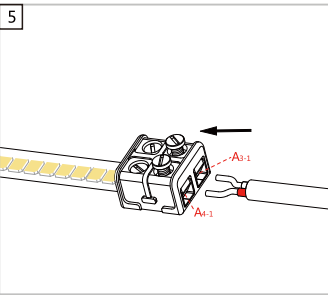
2. Tighten 2 of screws (A1/A2) with screws driver (Picture 4).

3. Make sure strip(B1) is in parallel with the inner side of connector(A).

4



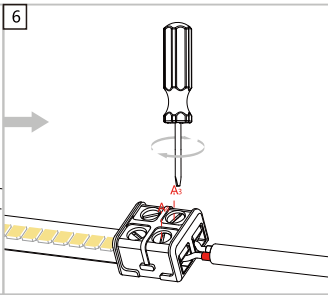
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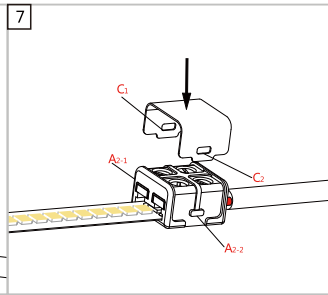
1. Take out the power cord, 2 cables respectively insert into hole of connector (A3-1,A4-1) (picture 6).

2. Tighten 2 of screws (A3/A4) with screws driver (Picture 7).

6



7

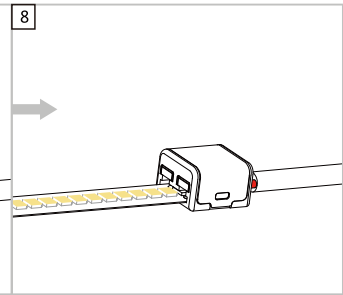


1. Take out the stainless cover, (C) holding the connector(picture 8).

2. Press down the stainless cover, until 2 holes(C1/C2) on the cover fix on the connector salient point( A2-1/A2-2).

3. Connect the other side of power cord to the driver, power on.

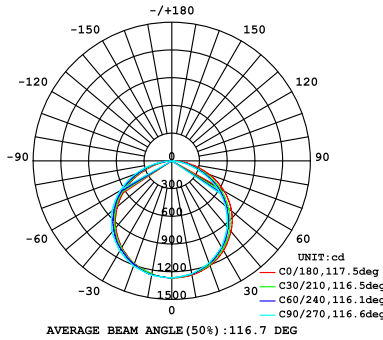
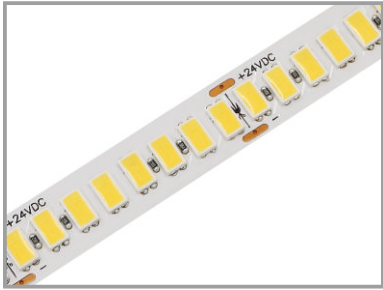
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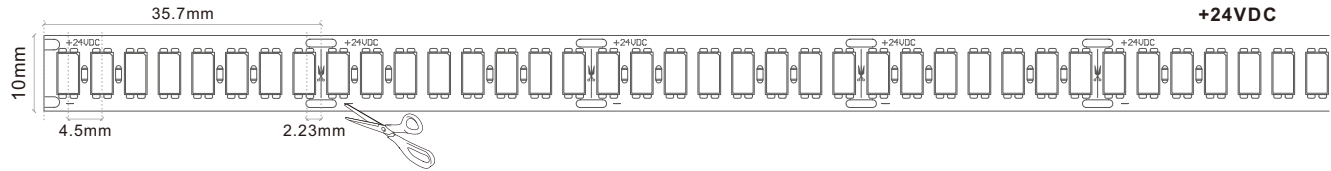
High Light Efficiency  
RA 80+ SMD5630

Part Number:EST-FS5630C-224-24-Y

| Model                 | Color temp. | LM/M   | Power/M | Light efficiency | CRI (Ra) | FPC copper |
|-----------------------|-------------|--------|---------|------------------|----------|------------|
| EST-FS5630WW-224-24-Y | 2700K       | 3565LM | <23W    | 155LM/W          | 80+      | 3OZ        |
| EST-FS5630WW-224-24-Y | 3000K       | 3680LM | <23W    | 160LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-224-24-Y | 4000K       | 3841LM | <23W    | 167LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-224-24-Y | 5000K       | 3864LM | <23W    | 168LM/W          | 80+      | 3OZ        |
| EST-FS5630PW-224-24-Y | 6500K       | 3795LM | <23W    | 165LM/W          | 80+      | 3OZ        |

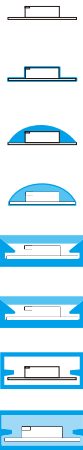


Strip length: CE:500CM UL:13.12FT

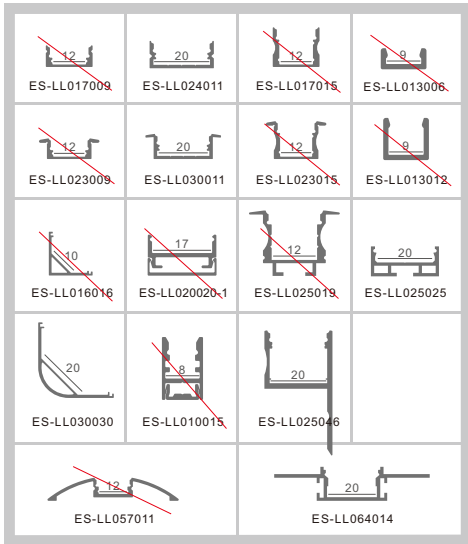


IP Rating:

- ☒ IP20---Non waterproof
- ☒ IP54---Nano coated
- ☒ IP65---Silicon coated
- ☒ IP67---Silicon coated & Wrapped heat shrink tube
- ☒ IP67---PVC extrusion
- ☒ IP67---Silicon extrusion
- ☒ IP67---Silicon tube(transparent)
- ☒ IP68---Silicon tube(transparent) & Inject silicon glue



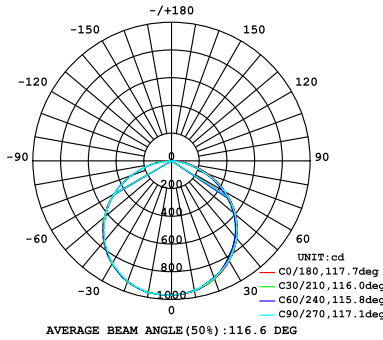
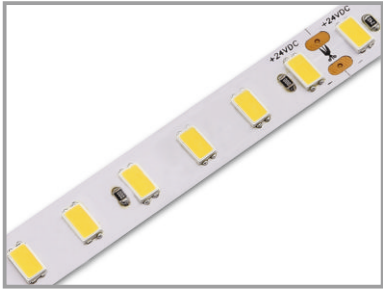
AL. profiles (mm)



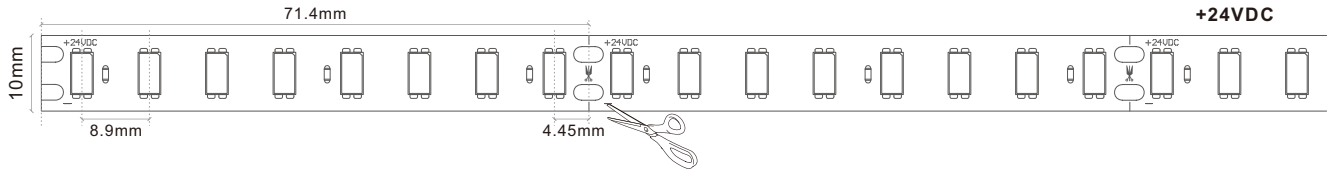
High Light Efficiency  
RA 80+ SMD5630

Part Number:EST-FS5630C-112-24-Y

| Model                 | Color temp. | LM/M   | Power/M | Light efficiency | CRI (Ra) | FPC copper |
|-----------------------|-------------|--------|---------|------------------|----------|------------|
| EST-FS5630WW-112-24-Y | 2700K       | 2805LM | <19.2W  | 146LM/W          | 80+      | 3OZ        |
| EST-FS5630WW-112-24-Y | 3000K       | 2805LM | <19.2W  | 146LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-112-24-Y | 4000K       | 2940LM | <19.2W  | 153LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-112-24-Y | 5000K       | 2940LM | <19.2W  | 153LM/W          | 80+      | 3OZ        |
| EST-FS5630PW-112-24-Y | 6500K       | 2840LM | <19.2W  | 148LM/W          | 80+      | 3OZ        |



Strip length: CE:500CM UL:13.12FT

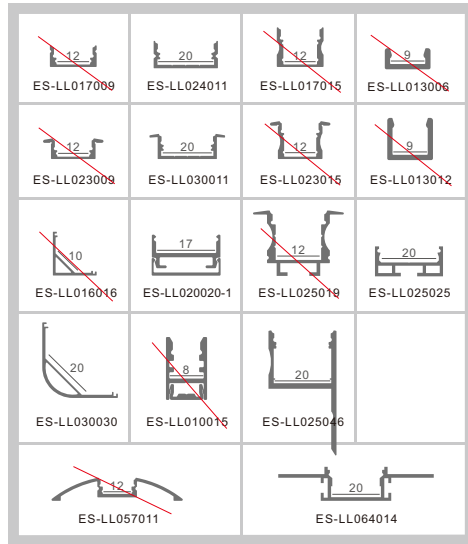


IP Rating:

- ☒ IP20---Non waterproof
- ☒ IP54---Nano coated
- ☒ IP65---Silicon coated
- ☒ IP67---Silicon coated & Wrapped heat shrink tube
- ☒ IP67---PVC extrusion
- ☒ IP67---Silicon extrusion
- ☒ IP67---Silicon tube(transparent)
- ☒ IP68---Silicon tube(transparent) & Inject silicon glue



AL. profiles (mm)

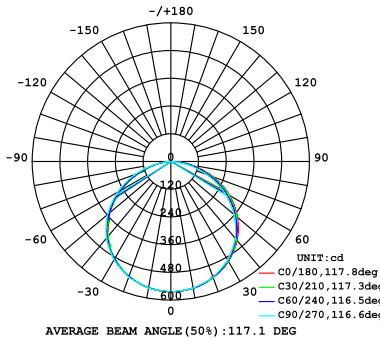


High Light Efficiency  
RA 80+ SMD5630

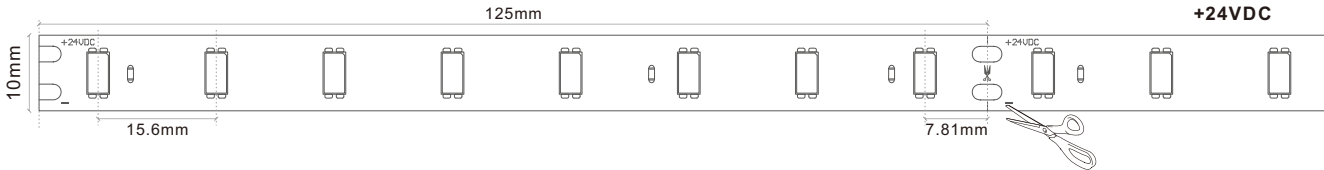
Part Number:EST-FS5630C-64-24-Y

| Model                | Color temp. | LM/M   | Power/M | CRI (Ra) | Light efficiency | FPC copper | IP Rating                            |
|----------------------|-------------|--------|---------|----------|------------------|------------|--------------------------------------|
| EST-FS5630WW-64-24-Y | 2700K       | 1400LM | <10W    | 80+      | 140LM/W          | 3OZ        | IP20<br>IP65<br>IP54<br>IP67<br>IP68 |
| EST-FS5630WW-64-24-Y | 3000K       | 1450LM | <10W    | 80+      | 145LM/W          | 3OZ        |                                      |
| EST-FS5630NW-64-24-Y | 4000K       | 1500LM | <10W    | 80+      | 150LM/W          | 3OZ        |                                      |
| EST-FS5630NW-64-24-Y | 5000K       | 1550LM | <10W    | 80+      | 155LM/W          | 3OZ        |                                      |
| EST-FS5630PW-64-24-Y | 6500K       | 1550LM | <10W    | 80+      | 155LM/W          | 3OZ        |                                      |

| Model                | Color temp. | LM/M   | Power/M | CRI (Ra) | Light efficiency | FPC copper | IP Rating            |
|----------------------|-------------|--------|---------|----------|------------------|------------|----------------------|
| EST-FS5630WW-64-24-Y | 2700K       | 1900LM | <19.2W  | 80+      | 99LM/W           | 3OZ        | IP20<br>IP65<br>IP54 |
| EST-FS5630WW-64-24-Y | 3000K       | 2000LM | <19.2W  | 80+      | 104LM/W          | 3OZ        |                      |
| EST-FS5630NW-64-24-Y | 4000K       | 2100LM | <19.2W  | 80+      | 109LM/W          | 3OZ        |                      |
| EST-FS5630NW-64-24-Y | 5000K       | 2200LM | <19.2W  | 80+      | 114LM/W          | 3OZ        |                      |
| EST-FS5630PW-64-24-Y | 6500K       | 2200LM | <19.2W  | 80+      | 114LM/W          | 3OZ        |                      |



Strip length: CE:500CM UL:14.26FT(19.2W) UL:32.81FT(10W)



IP Rating:

IP20---Non waterproof

IP54---Nano coated

IP65---Silicon coated

IP67---Silicon coated & Wrapped heat shrink tube

IP67---PVC extrusion

IP67---Silicon extrusion

IP67---Silicon tube(transparent)

IP68---Silicon tube(transparent) & Inject silicon glue



AL. profiles (mm)

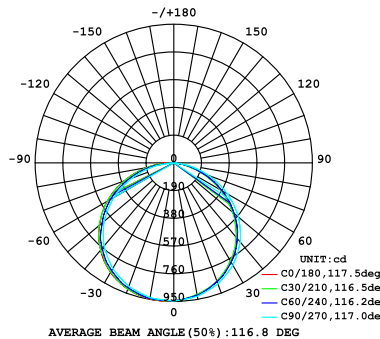
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|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <br>ES-LL017009 | <br>ES-LL024011   | <br>ES-LL017015 | <br>ES-LL013006 |
| <br>ES-LL023009 | <br>ES-LL030011   | <br>ES-LL023015 | <br>ES-LL013012 |
| <br>ES-LL016016 | <br>ES-LL020020-1 | <br>ES-LL025019 | <br>ES-LL025025 |
| <br>ES-LL030030 | <br>ES-LL010015   | <br>ES-LL025046 |                                                                                                      |
| <br>ES-LL057011 |                                                                                                        | <br>ES-LL064014 |                                                                                                      |

High Light Efficiency  
RA 80+ SMD5630

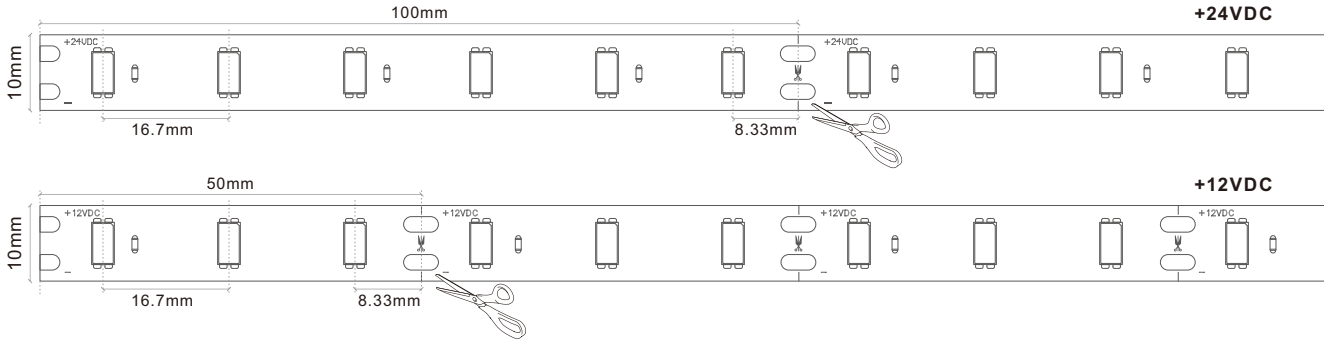
Part Number:EST-FS5630C-60-24-Y

Part Number:EST-FS5630C-60-12-Y

| Model                | Color temp. | LM/M   | Power/M | Light efficiency | CRI (Ra) | FPC copper |
|----------------------|-------------|--------|---------|------------------|----------|------------|
| EST-FS5630WW-60-24-Y | 2700K       | 2645LM | <23W    | 115LM/W          | 80+      | 3OZ        |
| EST-FS5630WW-60-12-Y | 2700K       | 2106LM | <18W    | 117LM/W          | 80+      | 3OZ        |
| EST-FS5630WW-60-24-Y | 3000K       | 2714LM | <23W    | 118LM/W          | 80+      | 3OZ        |
| EST-FS5630WW-60-12-Y | 3000K       | 2196LM | <18W    | 122LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-60-24-Y | 4000K       | 2806LM | <23W    | 122LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-60-12-Y | 4000K       | 2304LM | <18W    | 128LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-60-24-Y | 5000K       | 2806LM | <23W    | 122LM/W          | 80+      | 3OZ        |
| EST-FS5630NW-60-12-Y | 5000K       | 2304LM | <18W    | 128LM/W          | 80+      | 3OZ        |
| EST-FS5630PW-60-24-Y | 6500K       | 2875LM | <23W    | 125LM/W          | 80+      | 3OZ        |
| EST-FS5630PW-60-12-Y | 6500K       | 2340LM | <18W    | 130LM/W          | 80+      | 3OZ        |



Strip length: CE:500CM UL:22.64FT(24V) | 11.32FT(12V)



IP Rating:

IP20---Non waterproof

IP54---Nano coated

IP65---Silicon coated

IP67---Silicon coated & Wrapped heat shrink tube

IP67---PVC extrusion

IP67---Silicon extrusion

IP67---Silicon tube(transparent)

IP68---Silicon tube(transparent) & Inject silicon glue



AL. profiles (mm)

|                                                                                                      |                                                                                                        |                                                                                                      |                                                                                                      |
|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <br>ES-LL017009 | <br>ES-LL024011   | <br>ES-LL017015 | <br>ES-LL013006 |
| <br>ES-LL023009 | <br>ES-LL030011   | <br>ES-LL023015 | <br>ES-LL013012 |
| <br>ES-LL016016 | <br>ES-LL020020-1 | <br>ES-LL025019 | <br>ES-LL025025 |
| <br>ES-LL030030 | <br>ES-LL010015   | <br>ES-LL025046 |                                                                                                      |
| <br>ES-LL057011 |                                                                                                        | <br>ES-LL064014 |                                                                                                      |