greenhse
Technologies

TECHNICAL PARAMETERS

LED TYPE	240pcs 2835 LEDs/m
INPUT VOLTAGE	12V/24V DC Option
CCT	2700K, 3000K, 4000K, 6500K Option
CRI	>80, >90 option
BEAM ANGLE	120°
FPCB WIDTH	10mm, White Colour
FPCB THICKNESS	Double Layer 1.2mm
WORKING TEMPERATURE	-20°C~+50°C
STORAGE TEMPERATURE	-20°C~+60°C
LIFE SPAN	50000+ HRS
IP	IP20, IP65, IP67, IP68 Option
CERTIFICATION	SAA, RoHS, CE

FEATURES:

1. 240pcs 2835 SMD per meter.
2. Cut every 4pcs LEDs for 12VDC,
3. Cut every 8pcs LEDs for 24VDC, to reach high lumen efficacy.
4. Standard packing is 5m per roll; Any other different length can be customised.
5. Waterproof grade IP20/ IP65/ IP67/ IP68 option.
6. 5 Year warranty.

APPLICATION:

1. Decorative Lighting
2. Stage decoration, festival, exhibition, weddings
3. Backlight of signage, channel letters lighting
4. LED Luminous characters
5. Landscape layout lighting
6. Hotels, night clubs, shopping malls, offices

.IES CE RoHS ErP

LUMENS (80Ra):

Model No.:	CCT	Efficiency ±10%	Lumen ±10%	Energy Efficiency class	Test Condition				
					CRI	Length	Watt	Voltage	IP Grade
SELS-2835WW240-12/24-5Y	2700K	155lm/w	1705lm/m	D	>80	0.5Meter	11W	12V/24V	IP20
SELS-2835WW240-12/24-5Y	3000K	160m/w	1760lm/m	D					
SELS-2835NW240-12/24-5Y	4000K	155lm/w	1705lm/m	D					
SELS-2835PW240-12/24-5Y	6500K	150lm/w	1650lm/m	D					

LUMENS (90Ra):

| Model No.:	CCT	Efficiency ±10%	Lumen ±10%	Energy Efficiency class	Test Condition				
					CRI	Length	Watt	Voltage	IP Grade
SELS-2835WW240-12/24-5Y	2700K	125lm/w	1375lm/m	E	>80	0.5Meter	11W	12V/24V	IP20
SELS-2835WW240-12/24-5Y	3000K	130m/w	1430lm/m	E					
SELS-2835NW240-12/24-5Y	4000K	135lm/w	1485lm/m	E					
SELS-2835PW240-12/24-5Y	6500K	135lm/w	1485lm/m	E					

VOLTAGE DROP:

| LED/m	Voltage	FPC Width	Power (1mt)	One side with driver (3mt)		One side with driver (5mt)		Two side with driver (5mt)	
				Power	Voltage Drop	Power	Voltage Drop	Power	Voltage Drop
240 LED	12V	10mm, 3OZ	21.98W	49.95W	24.25%	59.42W	45.93%	91.16W	17.05%
240 LED	24V	10mm, 3OZ	22.00W	61.76W	6.42%	87.03W	20.88%	105.27W	4.30%

NOTE:
1. The above Lumens' test data of was tested by 0.5meter of LED Strip with an integration sphere and a spectroradiometer; The strip has been on for more than 2 minutes to fixed power. The test data is just an approximate since real lumens depend on the real power, which varies in different production lots (different LED's voltage, current, brightness and operating temperature etc.)
2. The LED Strip power above 15W/m, needs to be used with an Aluminium Profile.
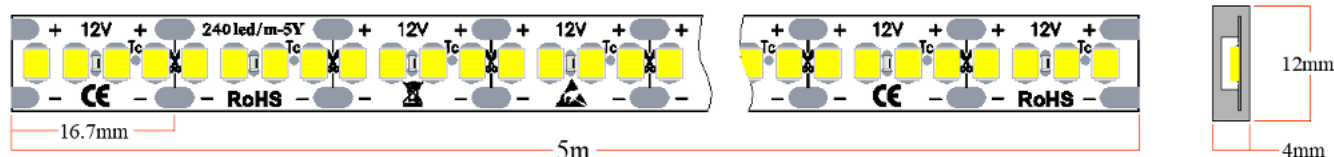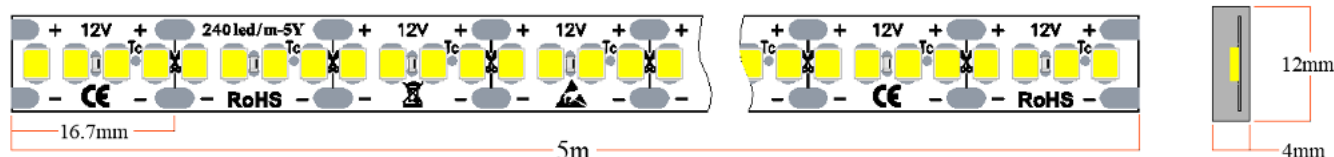
DIMENSIONS (12V):
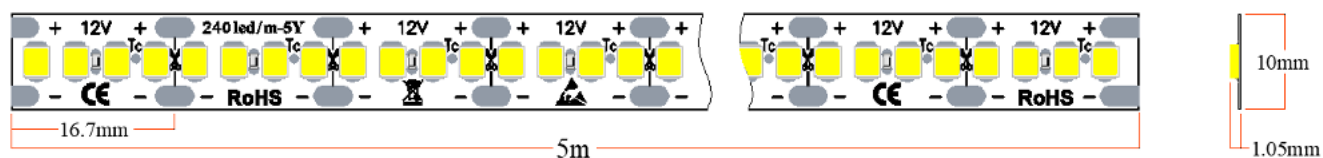
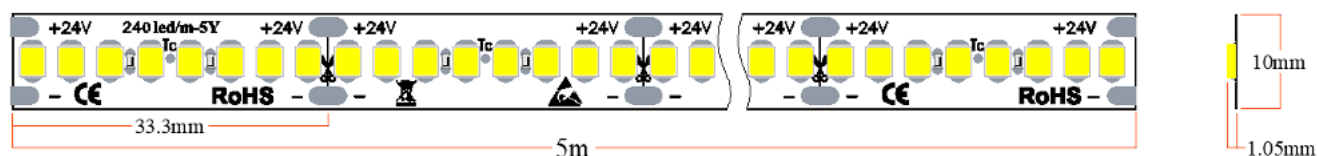SELS-2835**240-12-5IP20
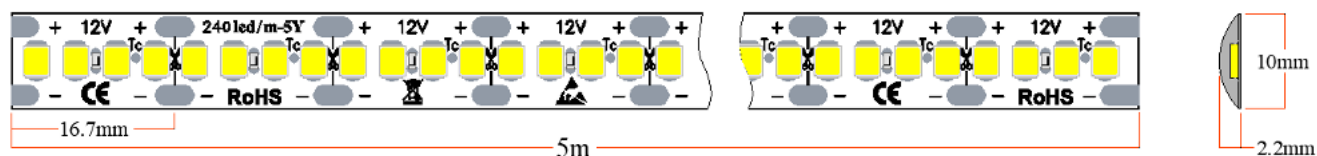
SELS-2835**240-12-5IP65

SELS-2835**240-12-5IP67
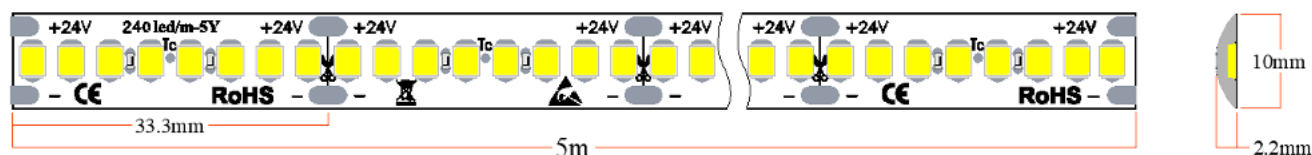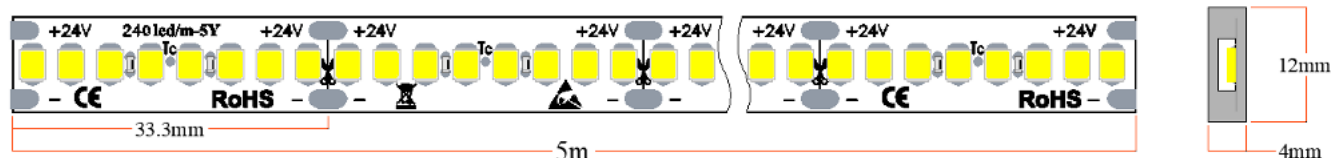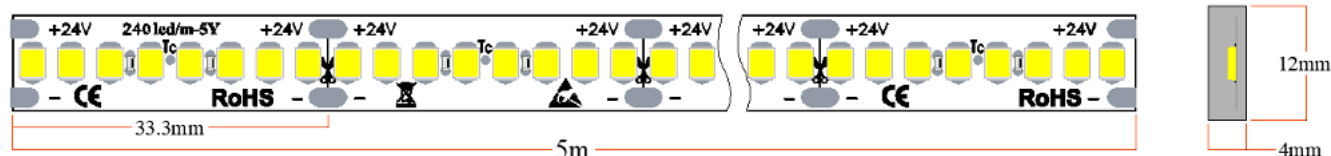

SELS-2835**240-12-5IP68

LUMENS (90Ra):

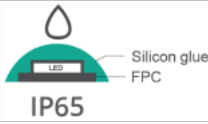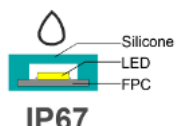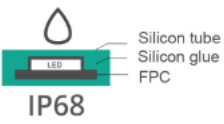SELS-2835**240-24-5IP20

SELS-2835**240-24-5IP65

SELS-2835**240-24-5IP67

SELS-2835**240-24-5IP68
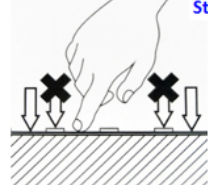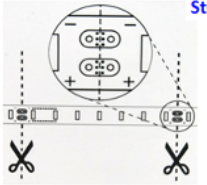
■ IP PROTECTION GRADE:

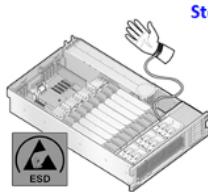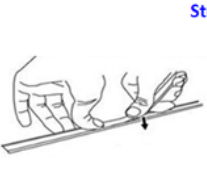|	
IP20	**Non-Waterproof** Naked strip, with self-adhesive backing, for indoor or dry location use only.
IP65	**Waterproof IP65** Strip surface is covered on top with a self-adhesive backing. For indoor use and damp environments. Protects from water.
IP67	**Waterproof IP67 (Hollow Extrusion)** The LED strip is extruded together with silicone (Hollow Extrusion), and the two ends are sealed with silicone end cap. IP67 waterproof grade, which can be submerged in water for a short time (immersion time must be less than 30min, water depth not more than 1m).
IP68	**Waterproof IP68 (Solid Extrusion)** The LED strip is extruded together with silicone (Solid Extrusion) IP68 waterproof grade, which can be immersed in water for long periods of time(water depth not more than 1m).

■ CONNECTION DIAGRAM:
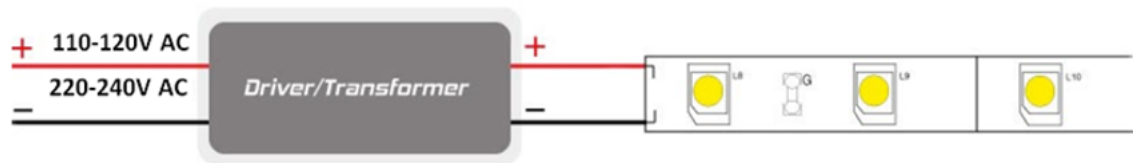
■ LED STRIP INSTALLATION GUIDE:

Step 1:	Step 2:	Step 3:
Dry the position to be flat and smooth before putting on the Strips	Press the LED Strip gently between electronic components and stick it to the surface. Avoid pressing electronic components.	LED Strip can be cut only between soldering pads
Step 4:	**Step 5:**	**Step 6:**
Solder wires on soldering pads (label +/-). The Solder temperature may not exceed 330 for maximum duration of 2 seconds.	During installation, make sure Strip Light isn't receiving electricity in any manner. Better wearing an Anti-static Wrist Strap to avoid Static electricity.	LED Strips better be installed on Aluminum (or Material with similar thermal conduction) to avoid LEDs overheating and ensure proper heat dissipation.

1. LED Strips Lights are low voltage products and must be used with constant voltage power supply;
2. DO NOT connect the LED Strips directly to voltage at AC110V or AC220V, it will be burn out.
3. The LED strip must be installed carefully; Excessive operation, bending and extrusion may damage the products

Distorted (Unallowed)

R ≥ 50mm

Bent (no problem)
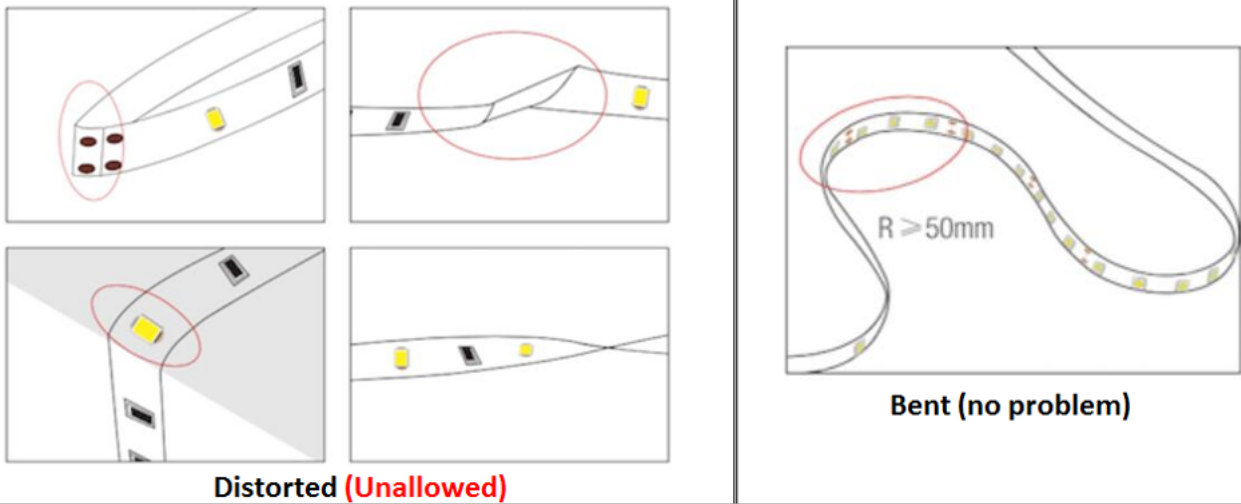
NOTICE:
1. Installation must comply with local and international electrical safety instructions.
2. In order to ensure safe and correct installation, the installing person must be a qualified electrician with a license.
3. The installation should comply with CE standard; come with constant voltage LED power supply.
4. Do not install the strip in a high heat environment.
5. Do not install the non-waterproof strip outdoor or in a damp environment.
6. Ensure that the cables used between the power supply, LEDs and any dimmer are of standard size.
7. Please calculate the voltage drop and the maximum rated current when selecting the cables. It will cause the cable overheat and burned if select improper cables and installation.
8. 5 Year Warranty will only be valid if product has not been damaged due to bending and extrusion and excessive operation
9. If there is any technical or sales question, please feel free to contact us at www.greenhse.com