LED Flex Light
UltraBright 4.4 Watt IP68

High Output - UltraBright 4.4 Watt IP68

SGi
LIGHTING INC.

Specification SERIES c(UL)us

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LED Flex Light • UltraBright 4.4 Watt IP68
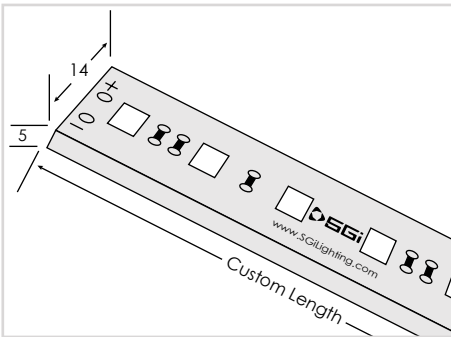
Dimensions in millimeters

Length	Custom Length[2] cuttable every 4.0"(101.6 mm)
Operating Voltage	24V DC
Finish (fin)	WHTC Clear White WHTF Frosted White[1] BLKC Clear Black[1]
Light Colour (lc) Correlated Colour Temperature (CCT)	2700K Incandescent White 3000K Warm White 3500K Sand White 4000K Neutral White 5000K Cool White CST R Red, G Green, B Blue, A Amber[3] *See RGB spec sheets for Colour Changing options*
Beam Angle (ba) Degrees	120°
Light Output Lumens (at 90 CRI)	2700K 310.6 per foot 3000K 338.2 per foot 3500K 365.8 per foot 4000K 393.2 per foot 5000K 420.7 per foot
CRI (cri) Colour Rendering Index	90
IP Rating	IP68[1]
Dimension Width, Height, Length	W 0.551" 14 mm H 0.196" 5 mm L Specify maximum length in inches
Watts	4.4 Watts per foot
Input Voltage	AC 100V – 240V, 277V external transformer
Dimmable	Yes With dimmable transformer MLV, ELV, Phase or 0-10V. Please specify at time of order.
Operating Temperature	–25°C to +50°C –13°F to 122°F
Life Lumen Maintenance	50,000 hours
Warranty	5 Years

Recommended Tracks	LP2410	REC2421	UCH2428	GENIE_PROFILE-DOME

See track page for more compatible tracks. See individual track cutsheets for more details.

Part Number Configuration

FLEX	ULTRA_4.4W-IP68	24VDC			90

Category	Family (fam)	Operating Voltage (ov)	Finish (fin)	Light Colour (lc)	CRI (cri)
FLEX	ULTRA_4.4W-IP68[1]	24VDC	WHTC Clear White WHTF Frosted White[1] BLKC Clear Black[1]	2700K 3000K 3500K 4000K 5000K CST[3]	90

[1] SPECIAL ORDER. Please confirm availability. Allow for 4 – 6 weeks lead time.   [2] See Connections page(s) for more details.

[3] SPECIAL ORDER: Available in single colour R Red, G Green, B Blue, A Amber.

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LED Flex Light • UltraBright 4.4 Watt IP68 • Wiring

LED FLEX – SINGLE COLOUR WIRING

You will need:
- Marettes
- SGi LED Transformer(s)
- SGi LED Flex Light Strip(s)
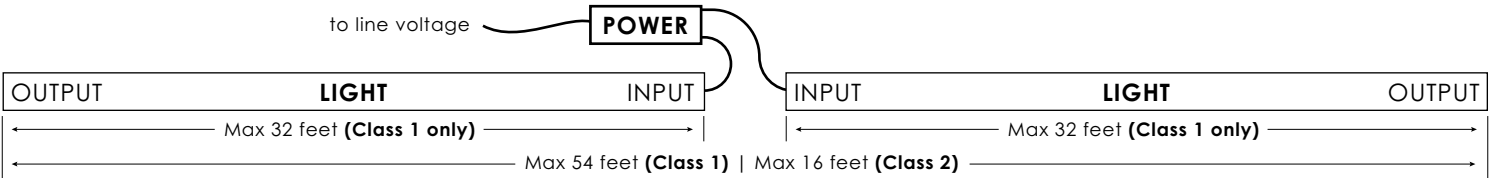- 18 AWG 2 conductor shielded cable

Transformer

Magnetic
Low Voltage
Dimmer *

INPUT

120V AC

Ground

RED +

PRL −

RED +

BLK −

Ground **E**

Output wire
Purple (−) **A**

Output wire
Red (+) **B**

Line Voltage
White **D**

C Line Voltage
Black

CUSTOM LENGTH
Min. 4"

* Dimmer switch is wired between line voltage and power supply, if installation requires dimming options.
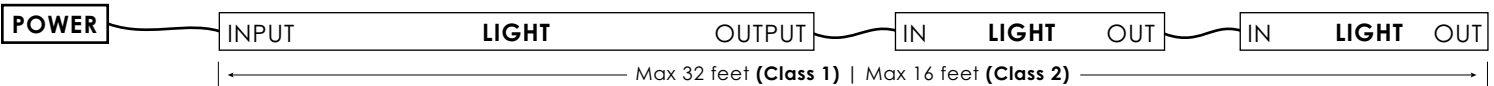Non-dimmable drivers are available
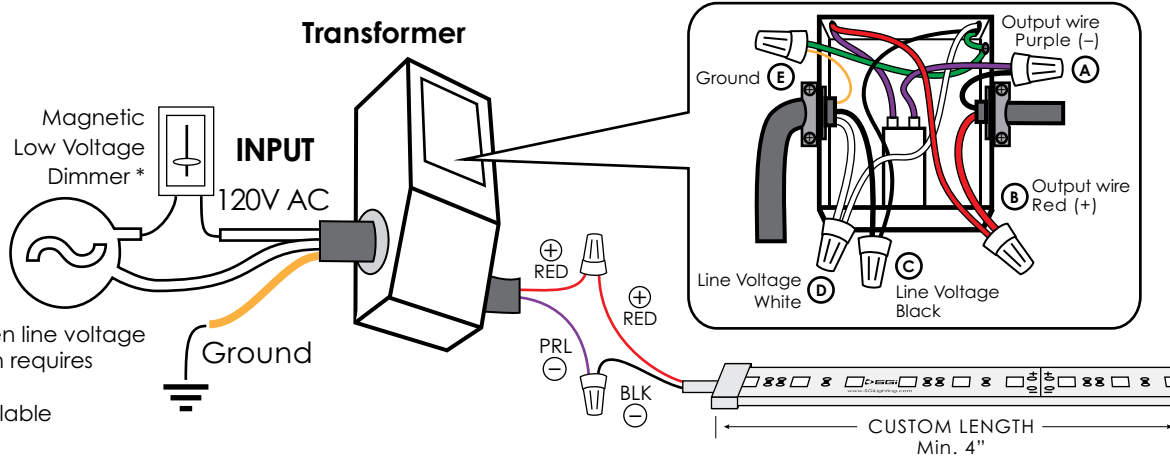
LED FLEX – WIRING CONFIGURATION EXAMPLES

The following illustrations are guides only. They are here to introduce general wiring configurations.
See wattage chart below for more information on maximum run lengths.

HOMERUN mulitiple light strips back to the power supply. Maximum light length is 32 feet on Class 1 transformers.

to line voltage — **POWER**

OUTPUT	**LIGHT**	INPUT	INPUT	**LIGHT**	OUTPUT

Max 32 feet **(Class 1 only)**   Max 32 feet **(Class 1 only)**

Max 54 feet **(Class 1)** | Max 16 feet **(Class 2)**

CUSTOMIZE with small jumpers to incorporate unique lengths into run. Homerun back to power supply after 32 ft (Class 1 only).

POWER

INPUT	**LIGHT**	OUTPUT	IN	**LIGHT**	OUT	IN	**LIGHT**	OUT

Max 32 feet **(Class 1)** | Max 16 feet **(Class 2)**

**FLEX-ULTRA_4.4W-IP68-24VDC-fin-lc-90** – POWER-36-24VDC-watt DIMMABLE   (12VDC Power options available)

Power Supply	20 Watt class 2	40 Watt class 2	60 Watt class 2	96 Watt class 2	150 Watt class 1	200 Watt class 1	300 Watt class 1
[1]Max ft of light	3 ft	7 ft	10 ft	17 ft	27 ft	36 ft*	54 ft*
Max cable distance between power & light	12 AWG >300 ft 14 AWG 238 ft 16 AWG 149 ft 18 AWG 94 ft	12 AWG 189 ft 14 AWG 119 ft 16 AWG 74 ft 18 AWG 47 ft	12 AWG 126 ft 14 AWG 79 ft 16 AWG 49 ft 18 AWG 31 ft	12 AWG 68 ft 14 AWG 43 ft 16 AWG 27 ft 18 AWG 17 ft	12 AWG 46 ft 14 AWG 29 ft 16 AWG 18 ft 18 AWG 11 ft	12 AWG 35 ft 14 AWG 21 ft 16 AWG 13 ft 18 AWG 9 ft	12 AWG 23 ft 14 AWG 14 ft 16 AWG 9 ft 18 AWG 6 ft

* Every 32 linear feet of light must be home-run to transformer. **All installations in North America must follow Class 2 requirements.
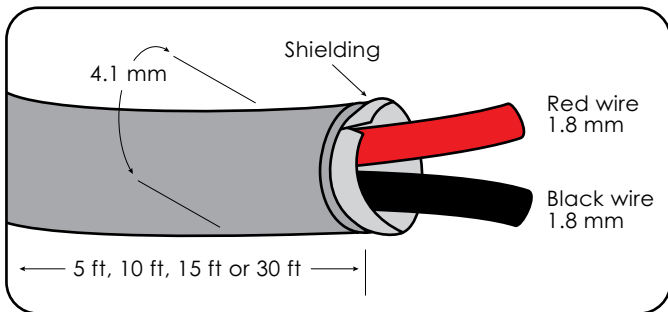[1]At 80% capacity

LED Flex Light • UltraBright 4.4 Watt IP68 • Cable Options

Hardwire Option for Single Colour –   **Choose between 5 Ft, 10 Ft, 15 Ft or 30 Ft cable leads**
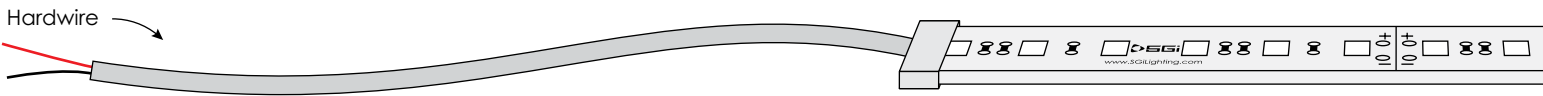
Hardwire

HARDWIRE OPTION USE:
18AWG 2 Conductor Shielded Cable | CABLE-18AWG-GRY-2S

Shielding

4.1 mm

Red wire
1.8 mm

Black wire
1.8 mm

5 ft, 10 ft, 15 ft or 30 ft

* CABLE-POWER-5FT-3.5M03-18AWG-GRY-2SP
CABLE-POWER-10FT-3.5M03-18AWG-GRY-2SP
CABLE-POWER-15FT-3.5M03-18AWG-GRY-2SP
CABLE-POWER-30FT-3.5M03-18AWG-GRY-2SP

LED Flex Light
UltraBright 4.4 Watt IP68

The IP68 version of SGi's UltraBright 4.4 Watt provides stronger illumination with the added ability of being fully submersible in deep underwater applications. UltraBright 4.4 Watt IP68's super low profile design combined with an algae resistant housing makes these lights perfect for all aquatic applications. Select a frosted finish option for a further diffused lighting effect. Pair with LED Track to achieve a directional or diffused lighting effect.

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