LED Flex Light
Endurance 1.9 Watt

SGi
LIGHTING INC.

Specification SERIES cULus

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LED Flex Light • Endurance 1.9 Watt

Length	Custom Length[2] cuttable every 4.0"(101.6 mm)
Operating Voltage	24V DC
Finish (fin)	Rugged – silicone injected, available in: WHT White PCB BLK Black PCB[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]
Beam Angle (ba) Degrees	120°
Light Output Lumens (at 90 CRI)	2700K 174 per foot 3000K 183 per foot 3500K 192 per foot 4000K 202 per foot 5000K 211 per foot
CRI (cri) Colour Rendering Index	90
IP Rating	IP67
Dimension Width, Height, Length	W 0.551" 14 mm H 0.157" 4 mm L Specify maximum length in inches
Watts	1.9 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. Sold separately.
Operating Temperature	–25°C to +50°C –13°F to 122°F
Life Lumen Maintenance	50,000 hours
Warranty	5 Years

Dimensions in millimeters

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	ENDR_1.9W	24VDC			90

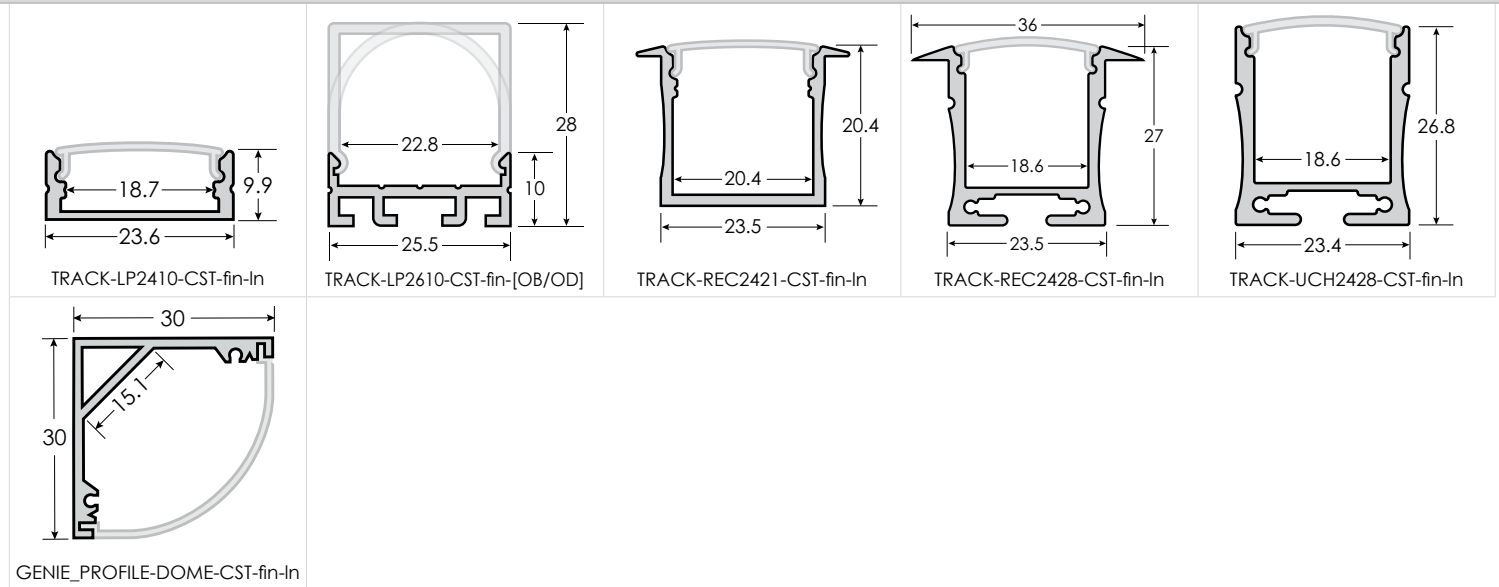| Category	Family	Operating Voltage	Finish (fin)	Light Colour (lc)	CRI (cri)
FLEX	ENDR_1.9W	24VDC	**WHT** White **BLK** Black[1]	**2700K** **3000K** **3500K** **4000K** **5000K** **CST**[3]	90

[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.

LED Flex Light • Endurance 1.9 Watt • Track Options

Please visit our **products page** on our website to view all tracks, along with track specifications.
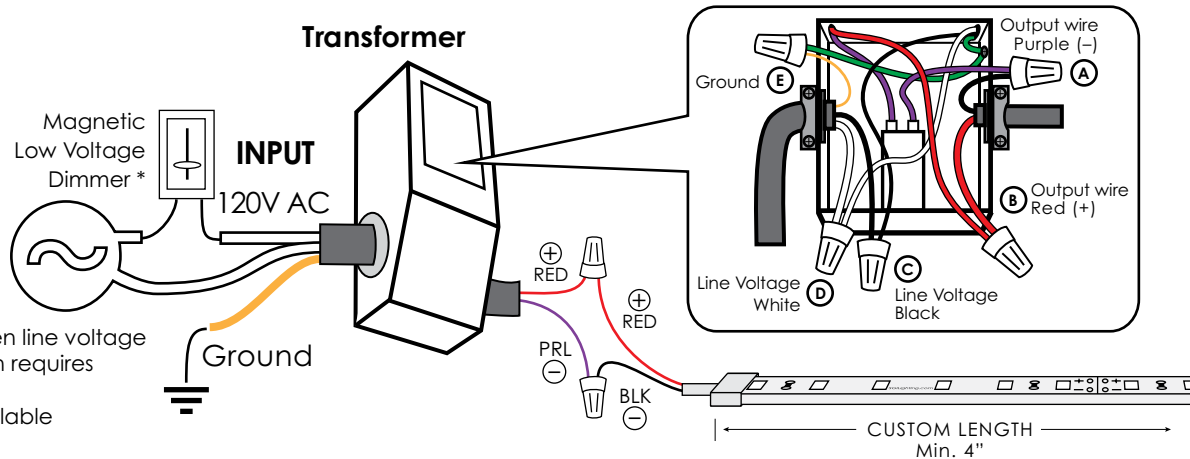

TRACK-LP2410-CST-fin-ln

TRACK-LP2610-CST-fin-[OB/OD]

TRACK-REC2421-CST-fin-ln

TRACK-REC2428-CST-fin-ln

TRACK-UCH2428-CST-fin-ln

GENIE_PROFILE-DOME-CST-fin-ln

Dimensions in millimeters.

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LED Flex Light • Endurance 1.9 Watt • Wiring

LED FLEX – SINGLE COLOUR WIRING

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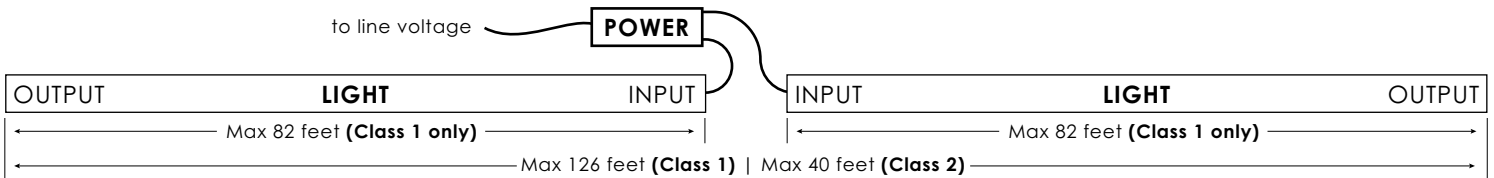- SGi LED Flex Light Strip(s)
- 18 AWG 2 conductor shielded cable

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

Transformer

Magnetic Low Voltage Dimmer *

INPUT
120V AC

Ground

⊕ RED
⊕ RED
PRL ⊖
BLK ⊖

Ground **E**
Output wire Purple (−) **A**
Output wire Red (+) **B**
Line Voltage White **D**
Line Voltage Black **C**

CUSTOM LENGTH
Min. 4"

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 82 feet on Class 1 transformers.

to line voltage — **POWER**

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

Max 82 feet **(Class 1 only)**   Max 82 feet **(Class 1 only)**
Max 126 feet **(Class 1)** | Max 40 feet **(Class 2)**

CUSTOMIZE with small jumpers to incorporate unique lengths into run. Homerun back to power supply after 82 ft (Class 1 only).

POWER

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

Max 82 feet **(Class 1 only)**
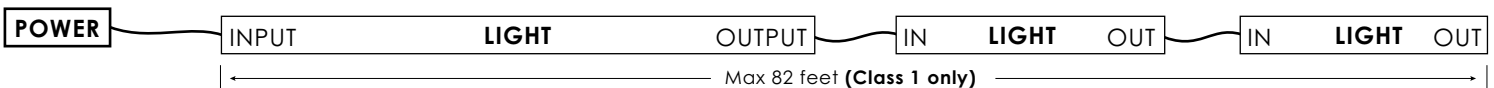
FLEX-ENDR_1.9W-24VDC-fin-lc-90 – POWER-36-24VDC-watt DIMMABLE

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	8 ft	16 ft	25 ft	40 ft	63 ft	84 ft*	126 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 82 linear feet of light must be home-run to transformer. **All installations in North America must follow Class 2 requirements.
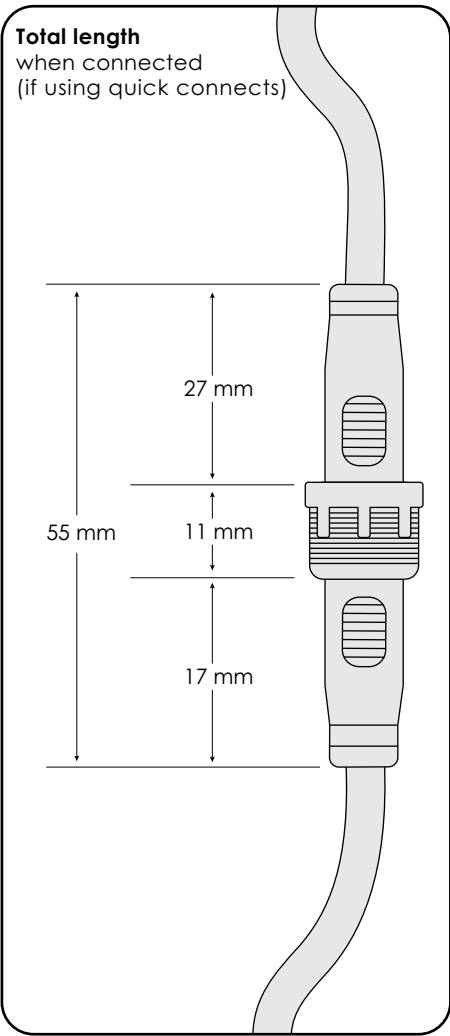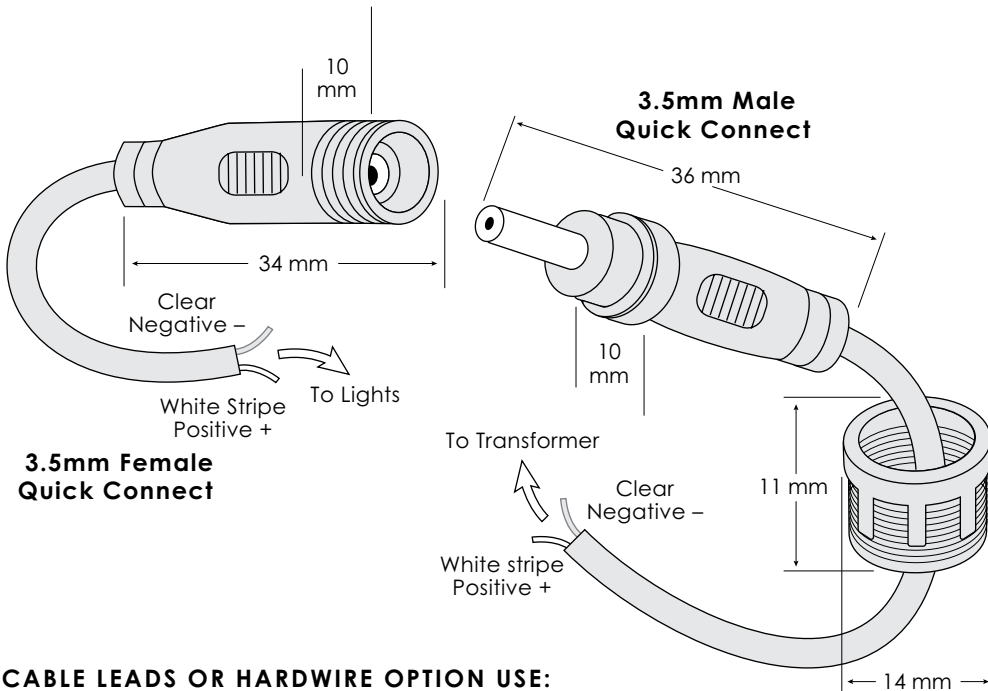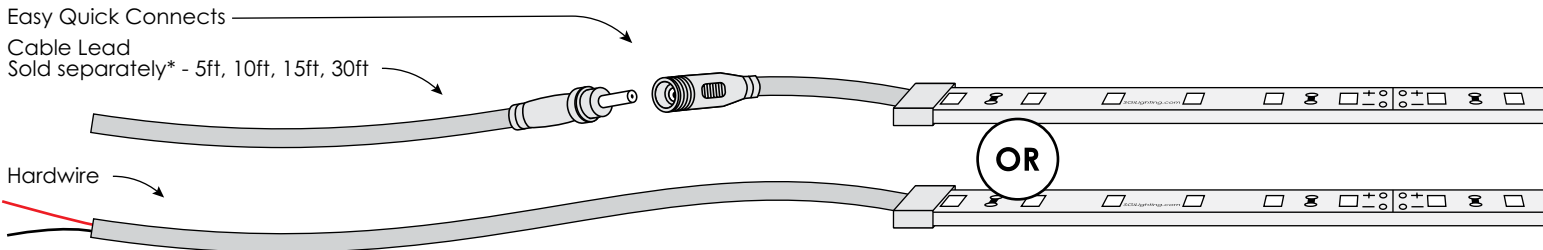[1]At 80% capacity
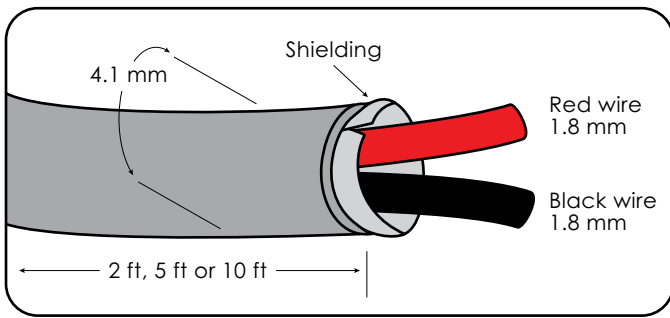
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LED Flex Light • Endurance 1.9 Watt • Cable Options

Cable Options for Single Colour – **Choose between Quick Connect or Hardwire option**
Choose between 5 Ft, 10 Ft, 15 Ft or 30 Ft cable leads

Easy Quick Connects
Cable Lead
Sold separately* - 5ft, 10ft, 15ft, 30ft

Hardwire

OR

10 mm

34 mm

Clear Negative –

To Lights

White Stripe Positive +

3.5mm Female Quick Connect

3.5mm Male Quick Connect

36 mm

10 mm

To Transformer

Clear Negative –

White stripe Positive +

11 mm

14 mm

Total length
when connected
(if using quick connects)

27 mm

11 mm

55 mm

17 mm

CABLE LEADS OR 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

2 ft, 5 ft or 10 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

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Endurance 1.9 Watt

SGi's Endurance 1.9 Watt is perfect for areas that need long runs of light, but space for external power supplies is limited. Endurance 1.9 Watt's low wattage allows for up to 70' of light to be powered on one 96 watt power supply, while still boasting an remarkable lumen output. Engineered to provide the highest possible quality available, Endurance 1.9 Watt is perfect for extravagant indoor and outdoor lighting where quality is the most important factor. Available in a comprehensive array of sing colour whites from 2700K to 5000K, and single colours. Pair with LED Track to achieve a directional or diffused lighting effect.

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