LED Neon Light
Round 4.57 Watt RGB IP68

SGi
LIGHTING INC.

Specification **SERIES** c(UL)us

SGi LIGHTING INC.

LED Neon Light • Round 4.57 Watt RGB IP68

HORIZONTAL BEND

16
11.5   21

Standard Injection Molded Connector shown.
Dimensions in millimeters.

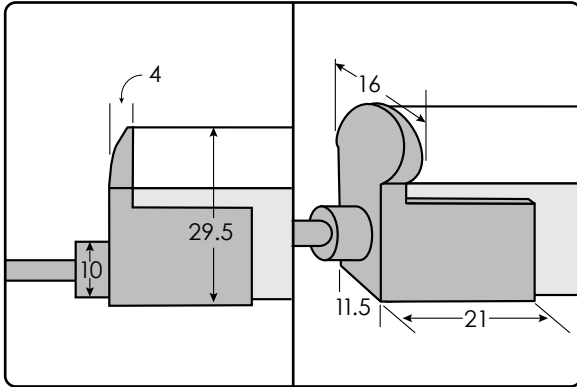|	
Length	Custom Length[1] cuttable every 3.25"
Operating Voltage (ov)	24V DC
Finish (fin)	WHT White
Light Colour (lc) Correlated Colour Temperature (CCT)	RGB Colour Changing Also available in Whites and Single Colours. Pease see individual product spec sheets
Bend (bnd)	HB Horizontal Bend
Connection (con) [1]	**Injection molded:** IN_E-30-OUT_E-30 IN_E-30-OUT_ENDCAP IN_SL-30-OUT_SR-30 IN_SL-30-OUT_ENDCAP IN_SR-30-OUT_SL-30 IN_SR-30-OUT_ENDCAP IN_B-30-OUT_B-30 IN_AB-CST-OUT_ENDCAP
Beam Angle (ba) Degrees	270°
Light Output Lumens	RGB White 302.9 per foot
IP Rating	IP68[2]
Dimensions with snap connector Width, Height, Length	W 0.84" 21.5 mm H 1.41" 36 mm L Specify maximum length in inches[1]
Watts	4.57 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

See connections page for alternative connector types and dimensions.

Part Number Configuration

NEON	RND_4.57W-IP68[2]	HB	24VDC	WHT	RGB	

Category	Family	Bend (bnd)	Operating Voltage (ov)	Finish (fin)	Light Colour (lc)	Connection (con)
NEON	RND_4.57W-IP68[2]	HB Horizontal Bend	24VDC	WHT	RGB	**Injection Molded:** IN_E-30-OUT_E-30 IN_E-30-OUT_ENDCAP IN_SL-30-OUT_SR-30 IN_SL-30-OUT_ENDCAP IN_SR-30-OUT_SL-30 IN_SR-30-OUT_ENDCAP IN_B-30-OUT_B-30 IN_B-30-OUT_ENDCAP

[1] See Connections page(s) for more details.

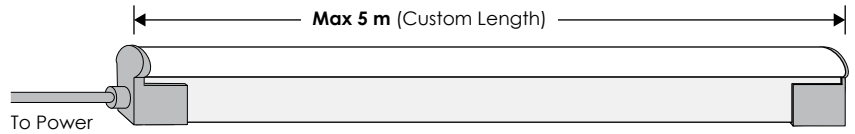[2] SPECIAL ORDER: Please confirm availability. Allow for 6 - 8 weeks lead time.

2883 Portland Drive, Oakville, ON, L6H 5S4, Tel.: 1.877.LED.2DAY (1 877.533.2329)

LED Neon Light • Round 4.57 Watt RGB IP68 Injection Molded Options

End Connector

IN_E-30-OUT_ENDCAP

Max 5 m (Custom Length)

To Power

IN_E-30-OUT_E-30

Max 10 m (Custom Length)

To Power

To Power
*Must have dual power
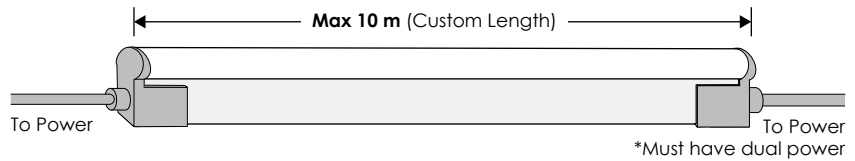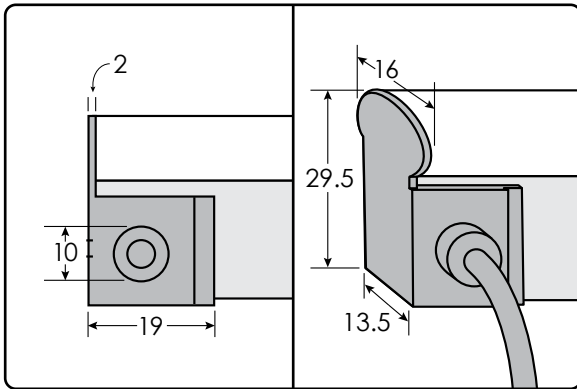
Side Connector

IN_SL-30-OUT_ENDCAP / IN_SR-30-OUT_ENDCAP

Max 5 m (Custom Length)

To Power
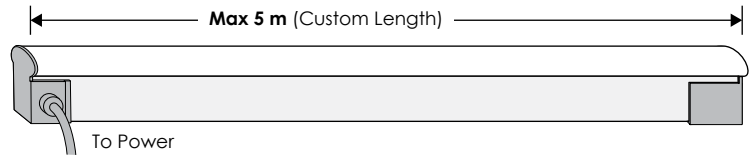
IN_SL-30-OUT_SR-30 / IN_SR-30-OUT_SL-30

Max 10 m (Custom Length)

To Power

To Power
*Must have dual power
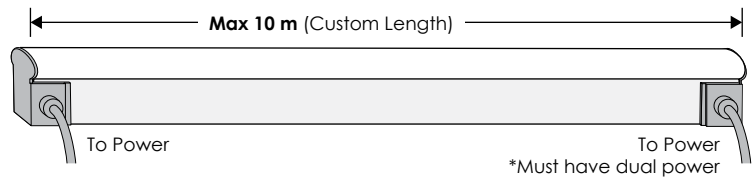
Bottom Connector

IN_B-30-OUT_ENDCAP

Max 5 m (Custom Length)

To Power

IN_B-30-OUT_B-30

Max 10 m (Custom Length)

To Power

To Power
*Must have dual power

SGi
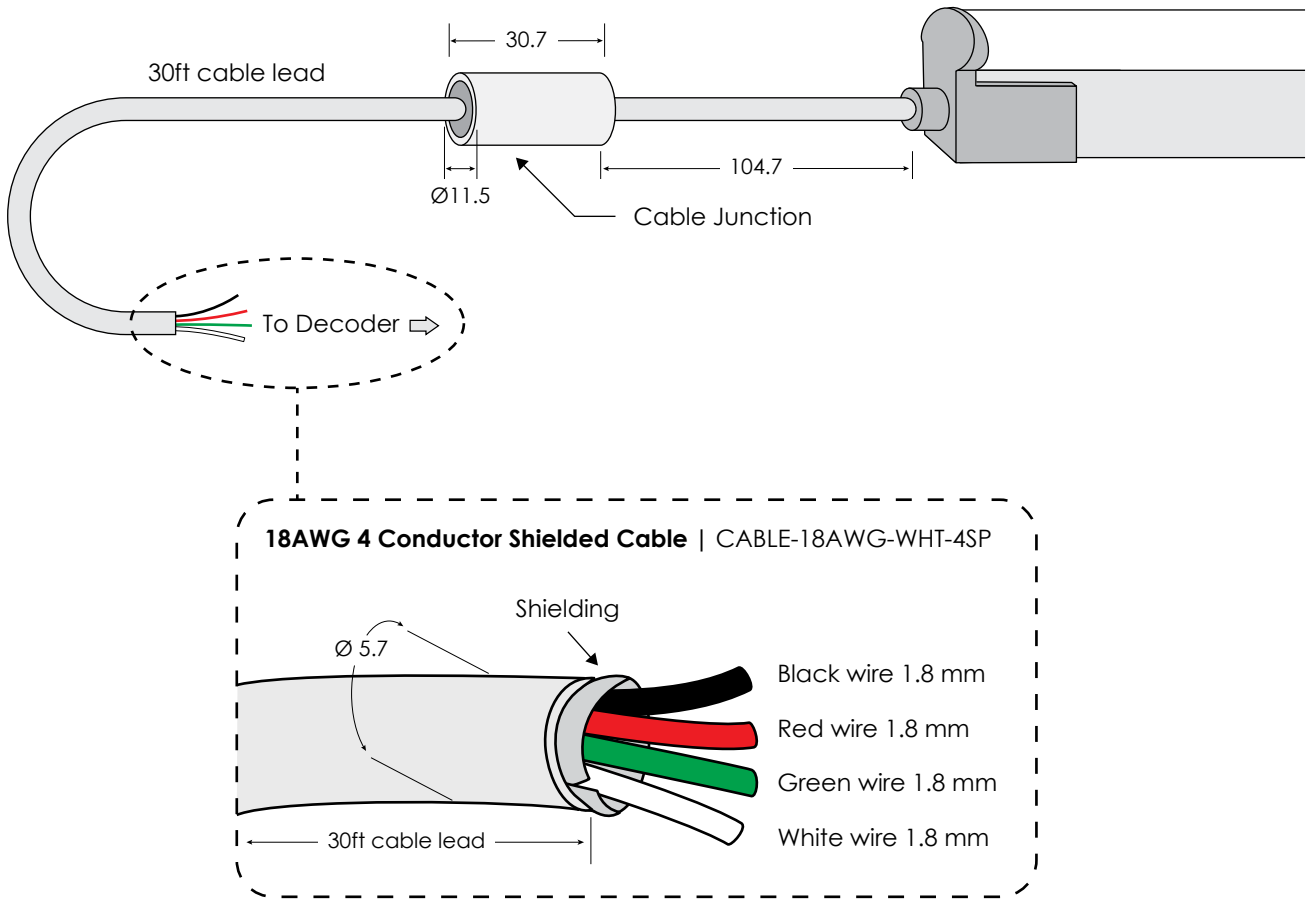LIGHTING INC.
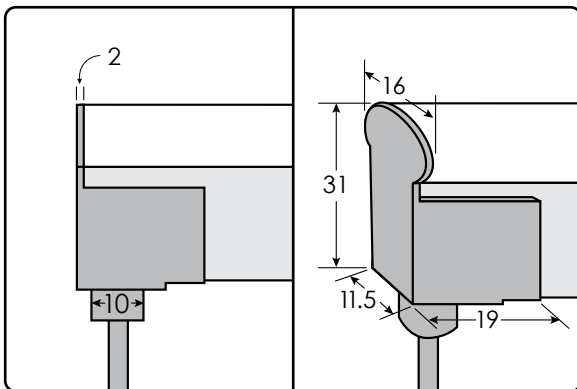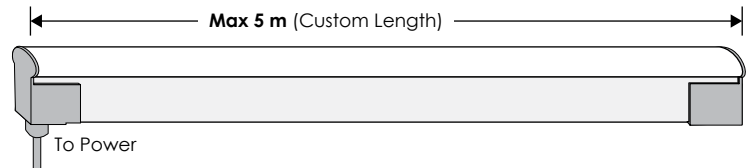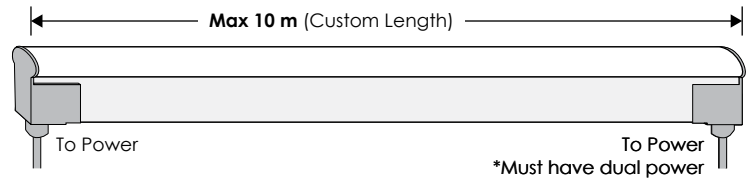
LED Neon Light • Round 4.57 Watt RGB IP68
Cable Options for Injection Molded Connection

Hardwire

With standard 30ft cable.

30.7

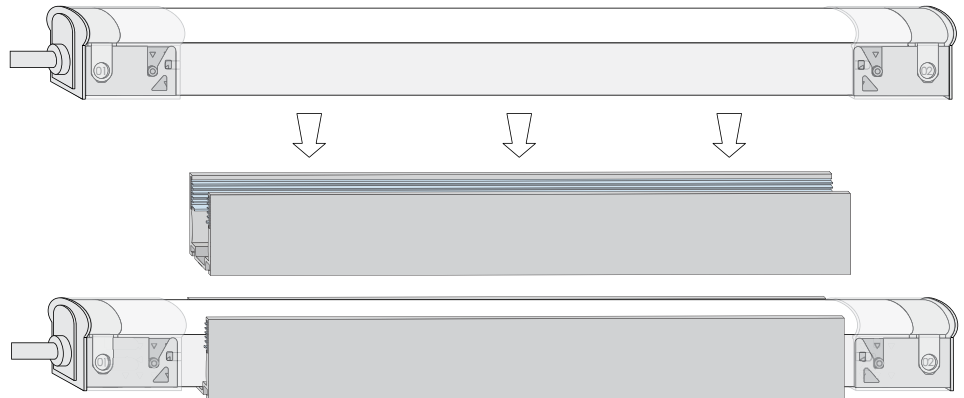30ft cable lead

Ø11.5

Cable Junction

104.7

To Decoder ⇨

18AWG 4 Conductor Shielded Cable | CABLE-18AWG-WHT-4SP

Shielding

Ø 5.7

Black wire 1.8 mm

Red wire 1.8 mm

Green wire 1.8 mm

30ft cable lead

White wire 1.8 mm

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LED Track • Neon 1724 Self-Locking

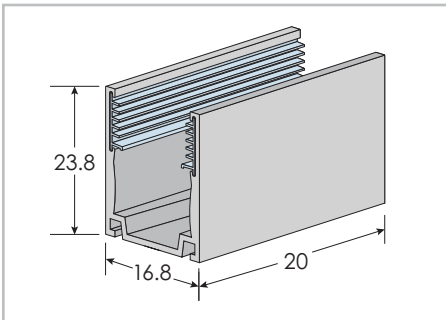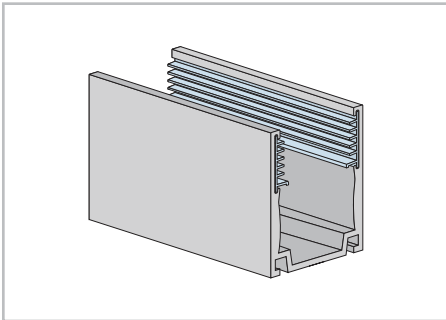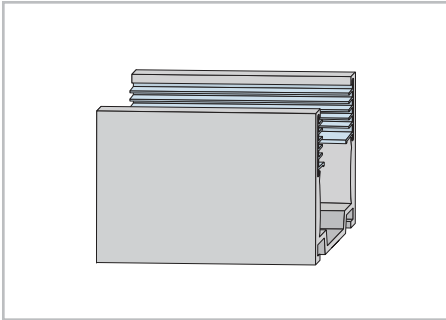|		
Finish (fin)	SIL	Silver
Lens (In)	N	None
Custom Length	Custom Track lengths available Please specify length in inches Standard length 1 m (39"), maximum 2.5 m (98")	
Housing	Aluminum Alloy	
Compatible Lights	Flat 4.57W LED Neon Light NEON-FLT_4.57W-HB-ov-fin-lc-con Round 4.57W LED Neon Light NEON-RND_4.57W-HB-ov-fin-lc-con Round High Temperature 2.2W LED Neon Light NEON-RNDHT_2.2W-HB-24VDC-WHT-lc-con	

23.8

16.8   1000 std.

Dimensions in millimeters

Part Number Configuration

TRACK	NEON-1724SL3	CST	SIL	N

Category	Family	Length	Finish	Lens
TRACK	**NEON-1724SL3**	**CST** Custom Length	**SIL** Silver	**N** None

LED Clip • Neon 1724 Self-Locking

Finish (fin)	SIL	Silver
Lens (In)	N	None
Length	20 mm	0.78 Inches (Tolerance +/– 0.3mm)
Housing	Aluminum Alloy	

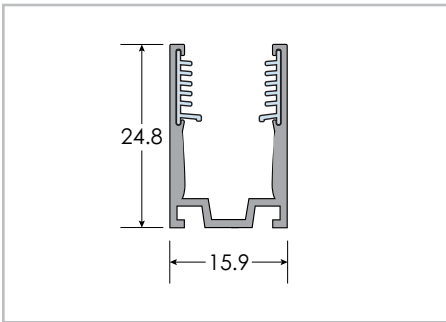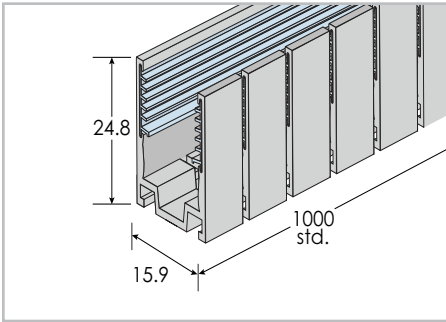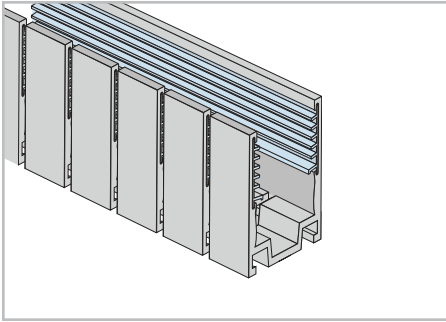| **Compatible Lights**	Flat 4.57W LED Neon Light NEON-FLT_4.57W-HB-ov-fin-lc-con Round 4.57W LED Neon Light NEON-RND_4.57W-HB-ov-fin-lc-con Round High Temperature 2.2W LED Neon Light NEON-RNDHT_2.2W-HB-24VDC-WHT-lc-con

23.8

16.8   20

Dimensions in millimeters
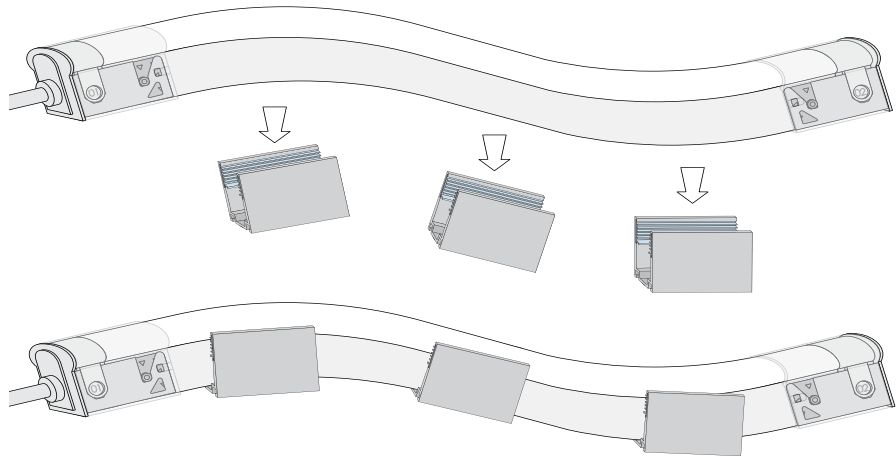
Part Number Configuration

CLIP	NEON-1724SL3	20MM	SIL	N
Category	**Family**	**Length**	**Finish**	**Lens**
CLIP	**NEON-1724SL3**	**20MM** 0.78 Inches	**SIL** Silver	**N** None

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LED Track • Neon 1724 Self-Locking Horizontal Bend

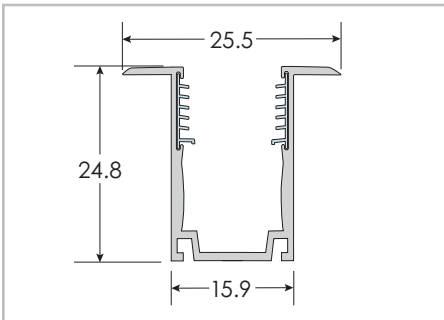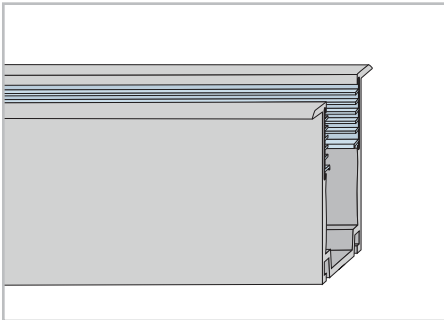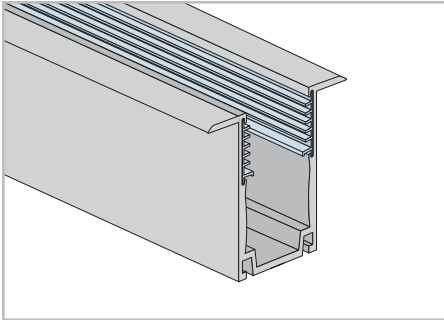|		
Finish (fin)	SIL	Silver
Lens (ln)	N	None
Custom Length	Custom Track lengths available Please specify length in inches Standard length 1 m (39"), maximum 2.5 m (98")	
Housing	Aluminum Alloy	
Compatible Lights	Flat 4.57W LED Neon Light NEON-FLT_4.57W-HB-ov-fin-lc-con Round 4.57W LED Neon Light NEON-RND_4.57W-HB-ov-fin-lc-con Round High Temperature 2.2W LED Neon Light NEON-RNDHT_2.2W-HB-24VDC-WHT-lc-con	

24.8

1000 std.

15.9

24.8

15.9

Dimensions in millimeters

Part Number Configuration

TRACK	NEON-1724SL3-H_BND	CST	SIL	N

Category	Family	Length	Finish	Lens
TRACK	**NEON-1724SL3-H_BND**	**CST** Custom Length	**SIL** Silver	**N** None

LED Track • Neon 1724 Self-Locking Recessed

Finish (fin)	SIL	Silver
Lens (In)	N	None
Custom Length	Custom Track lengths available Please specify length in inches Standard length 1 m (39"), maximum 2.5 m (98")	
Housing	Aluminum Alloy	
Compatible Lights	Flat 4.57W LED Neon Light NEON-FLT_4.57W-HB-ov-fin-lc-con Round 4.57W LED Neon Light NEON-RND_4.57W-HB-ov-fin-lc-con Round High Temperature 2.2W LED Neon Light NEON-RNDHT_2.2W-HB-24VDC-WHT-lc-con	

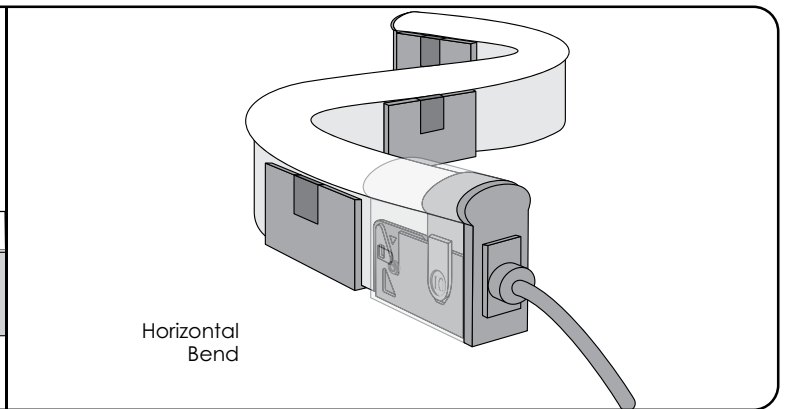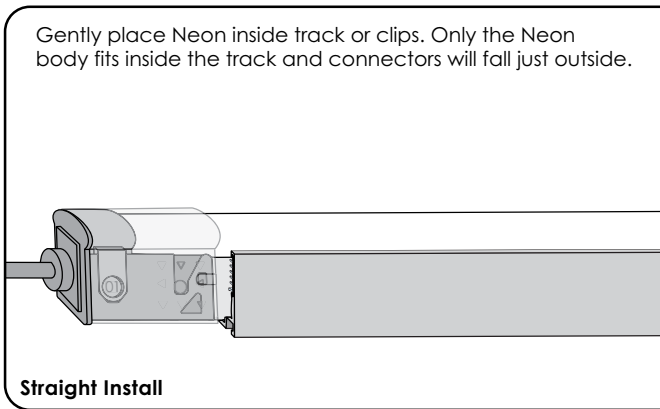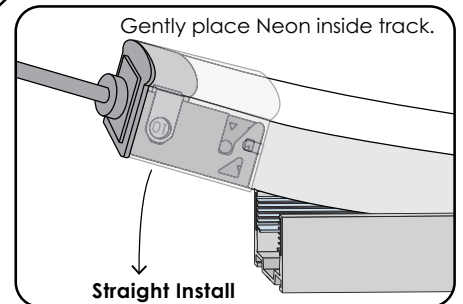Dimensions in millimeters

25.5
24.8
15.9

Part Number Configuration

TRACK	NEON-1724SL3-REC	CST	SIL	N

Category	Family	Length	Finish	Lens
TRACK	**NEON-1724SL3-REC**	**CST** Custom Length	**SIL** Silver	**N** None

LED Track/Clip • Neon 1724 Self-Locking
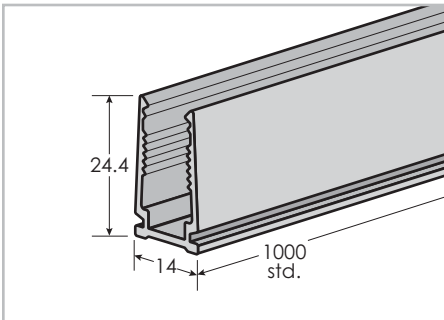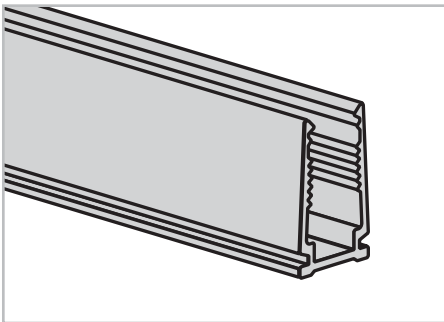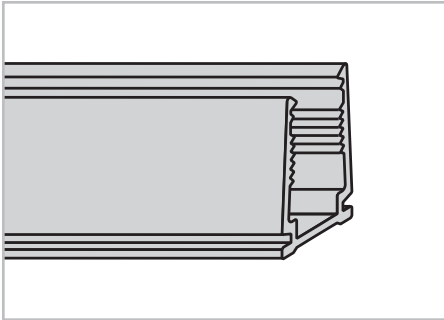## Mounting Guide

Mount LED Neon lights in long lengths of track to achieve straight installations
OR multiple clips along a rounded surface for curved insallations

Track

1 meter (2 meter length available as special order)
(field cuttable to custom lengths)

20 mm

OR

Straight Install

Horizontal
Bend

Vertical
Bend

Curved Install

Straight Install
Secure every 4 feet

Curved Install
Place clips for every one
foot of light.

Screw head
completely
flush with
bottom
of track

Gently place Neon inside track.

Straight Install

Gently place Neon inside track or clips. Only the Neon
body fits inside the track and connectors will fall just outside.

Straight Install

Horizontal
Bend

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LED Track • Neon 1724 PVC

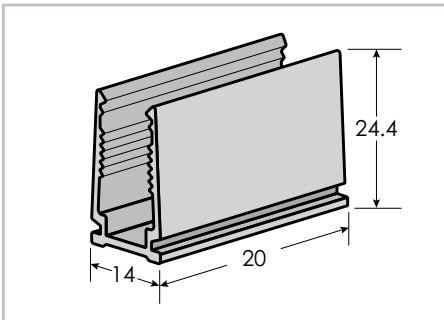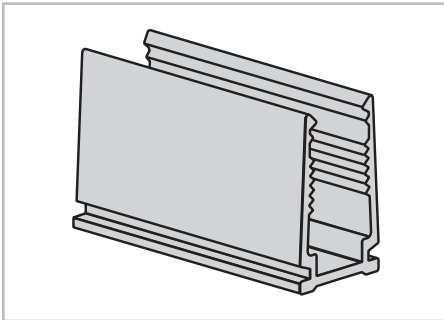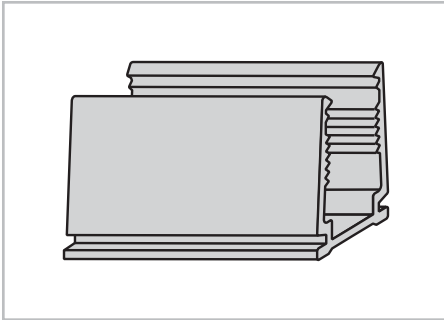|		
Finish (fin)	WHT	White
Lens (ln)	N	None
Custom Length	Custom Track lengths available Please specify length in inches Standard length 1 m (39"), maximum 2 m (78")	
Housing	PVC	
Compatible Lights	Flat 4.57W LED Neon Light NEON-FLT_4.57W-HB-ov-fin-lc-con Round 4.57W LED Neon Light NEON-RND_4.57W-HB-ov-fin-lc-con Round High Temperature 2.2W LED Neon Light NEON-RNDHT_2.2W-HB-24VDC-WHT-lc-con	
Installation Note	No self-locking feature Recommended for undermount installations, use silicone to secure light into track.	

24.4

14   1000 std.

Part Number Configuration

TRACK	NEON-1724PVC	CST	WHT	N

Category	Family	Length	Finish	Lens
TRACK	**NEON-1724PVC**	**CST** Custom Length	**WHT** White	**N** None

LED Clip • Neon 1724 PVC

|		
Finish (fin)	WHT	White
Lens (ln)	N	None
Length	20 mm	0.78 Inches (Tolerance +/– 0.3mm)
Housing	Plastic	
Compatible Lights	Flat 4.57W LED Neon Light NEON-FLT_4.57W-HB-ov-fin-lc-con Round 4.57W LED Neon Light NEON-RND_4.57W-HB-ov-fin-lc-con Round High Temperature 2.2W LED Neon Light NEON-RNDHT_2.2W-HB-24VDC-WHT-lc-con	
Installation Note	No self-locking feature Not recommended for undermount installations	
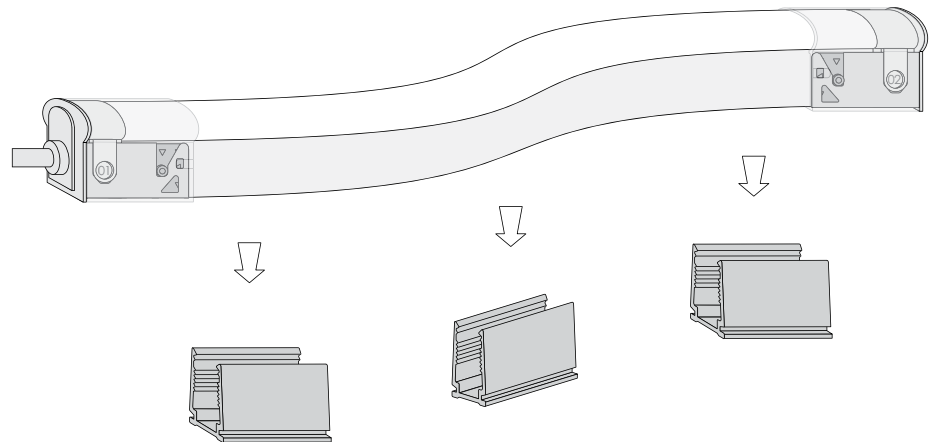
Part Number Configuration

CLIP	NEON-1724PVC	20MM	WHT	N
Category	Family	Length	Finish	Lens
CLIP	**NEON-1724PVC**	**20MM** 0.78 Inches	**WHT** White	**N** None

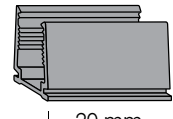# LED Track/Clip • Neon 1724 PVC
Mounting Guide

Mount LED Neon lights in long lengths of track to achieve straight installations
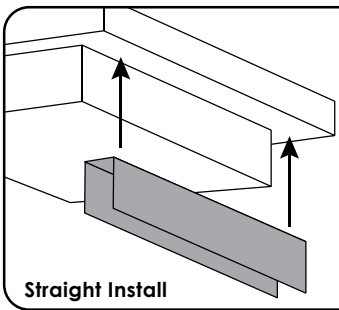**OR** multiple clips along a rounded surface for curved insallations
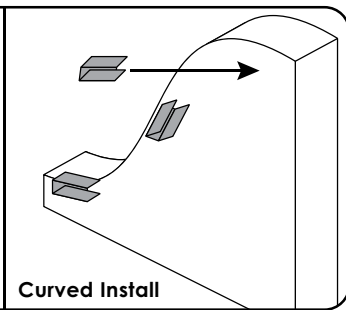

Track

OR
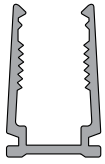
1 meter (2 meter length available as special order)
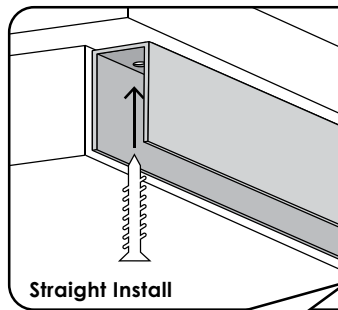(field cuttable to custom lengths)

20 mm

Straight Install

Curved Install

Straight Install
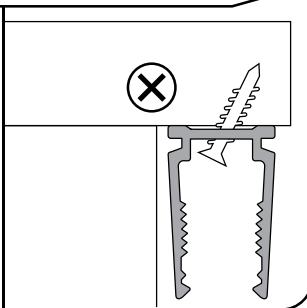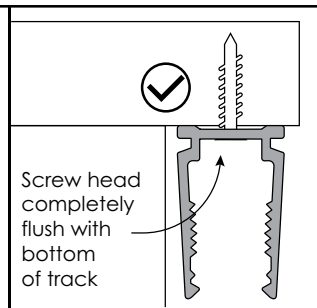
Curved Install

Screw head completely flush with bottom of track
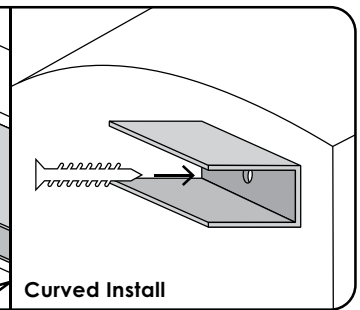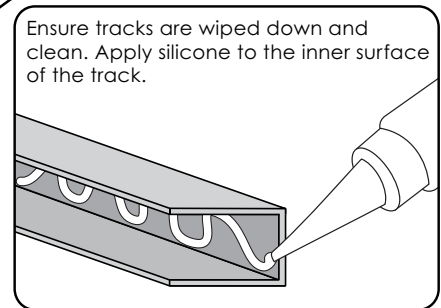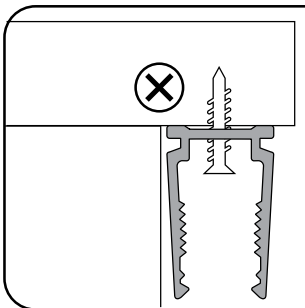
Ensure tracks are wiped down and clean. Apply silicone to the inner surface of the track.
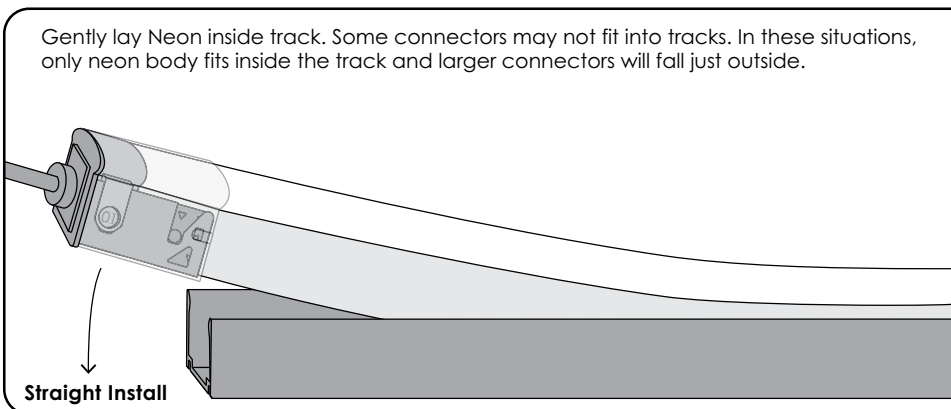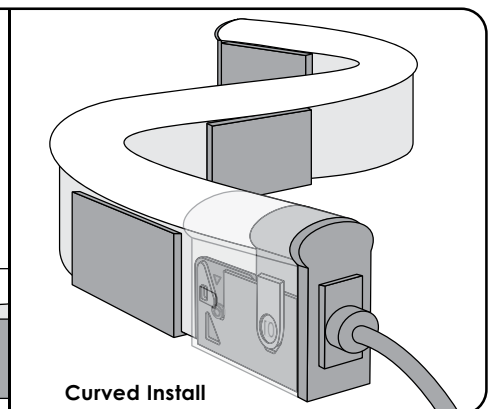
Gently lay Neon inside track. Some connectors may not fit into tracks. In these situations, only neon body fits inside the track and larger connectors will fall just outside.
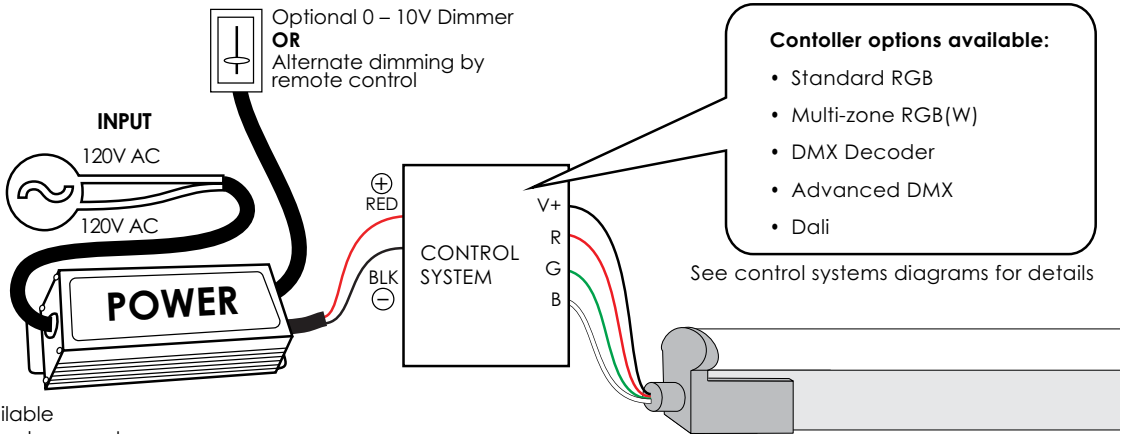
Straight Install

Curved Install

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SGi
LIGHTING INC.

LED Neon • Round 4.57 Watt RGB IP68
Wiring Instructions

RGB WIRING

To Start:

You will need:

- Marettes
- Clear silicone
- SGi LED Transformer(s)
- SGi LED Neon Light(s)
- 18 AWG 4 conductor shielded cable

Optional 0 – 10V Dimmer
OR
Alternate dimming by remote control

INPUT
120V AC
120V AC

POWER

⊕ RED
⊖ BLK

CONTROL SYSTEM

V+
R
G
B

Contoller options available:

- Standard RGB
- Multi-zone RGB(W)
- DMX Decoder
- Advanced DMX
- Dali

See control systems diagrams for details

* Non-dimmable drivers are available
**Shown with injection molded end connector

**NEON-RND_4.57W-IP68-HB-24VDC-fin-lc-con** – POWER-21-24VDC-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
Max ft of light[1]	4 ft	7 ft	11 ft	17 ft	26 ft	35 ft*	53 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.
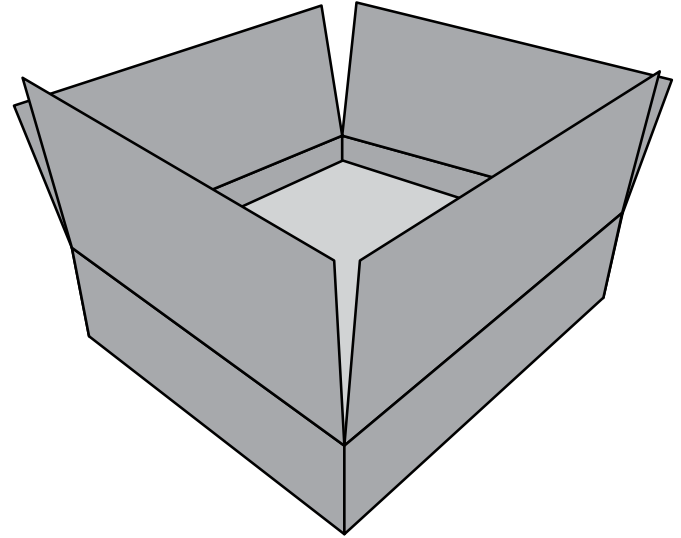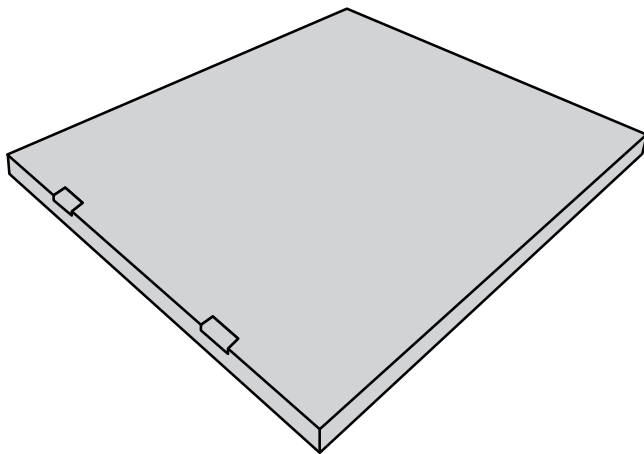[1]At 80% capacity

c(UL)us

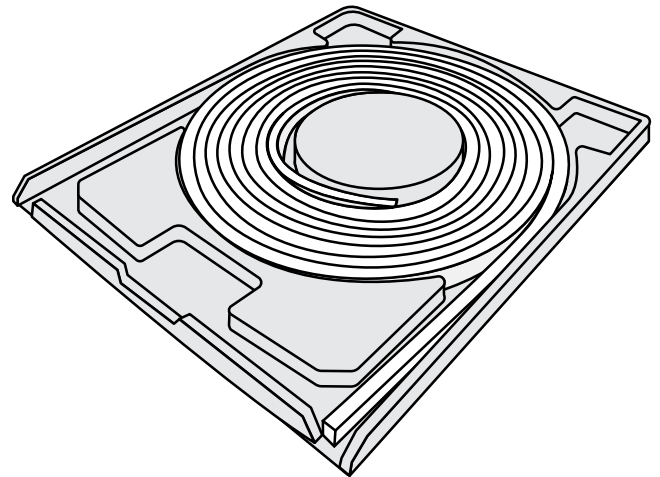# **LED Neon** • Round 4.57 Watt RGB IP68
Handling Guide
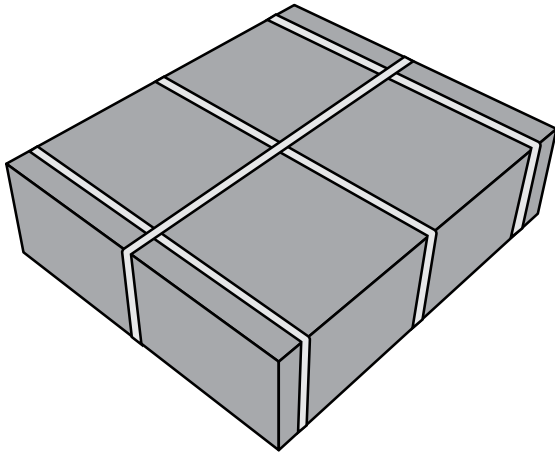
LED Neon lights are shipped in cartons.
Carefully cut open cartons. Do not cut deeply, as the
contents are packed tightly against the carton lid
to prevent movement during shipping.

Each shipping carton can fit one to four trays.

Important: Keep trays flat. Placing trays on their sides can
cause contents to become unravelled.
Each tray can fit multiple LED Neon strips, depending on overall
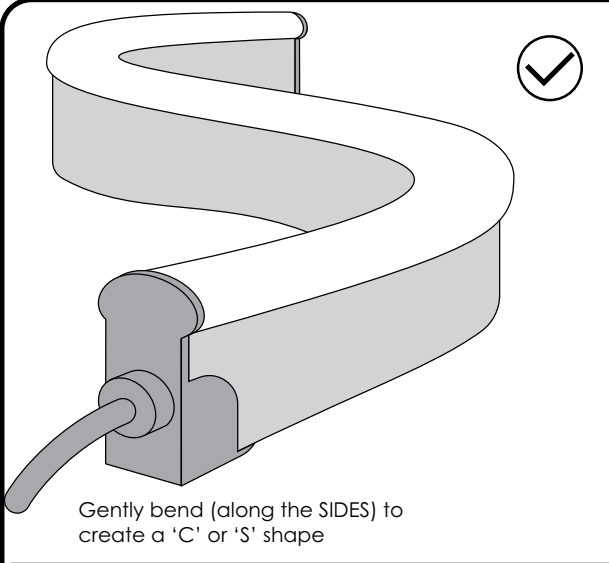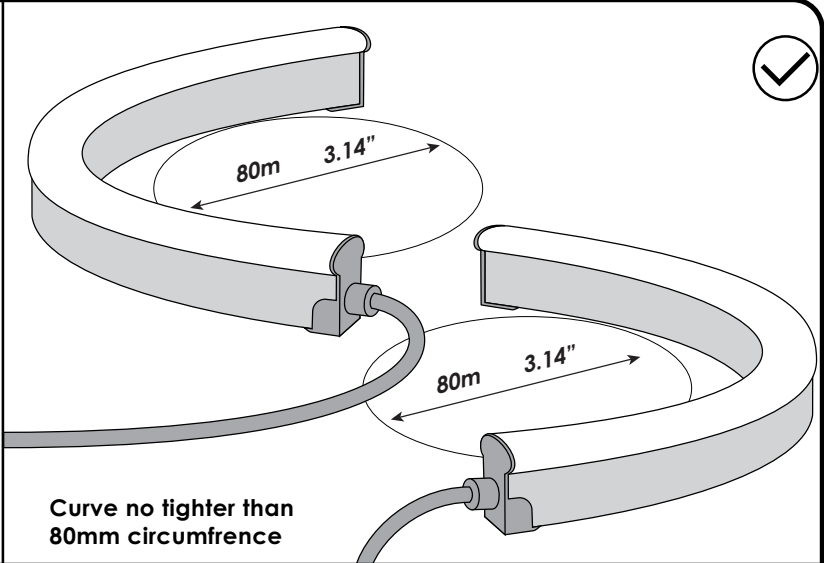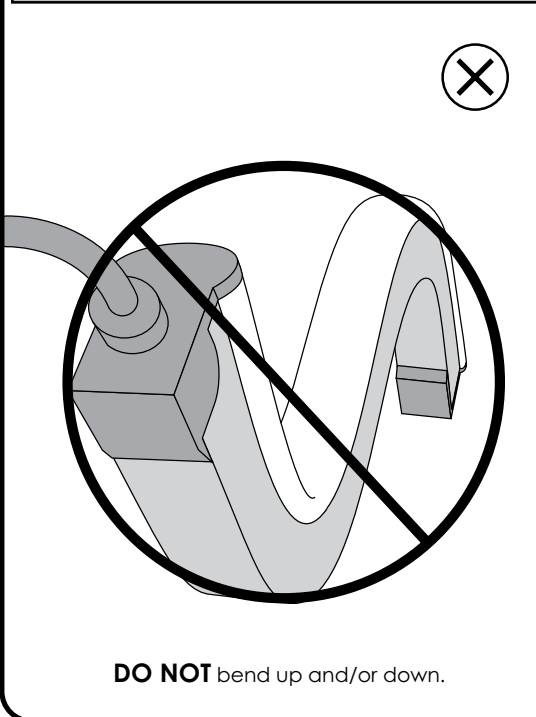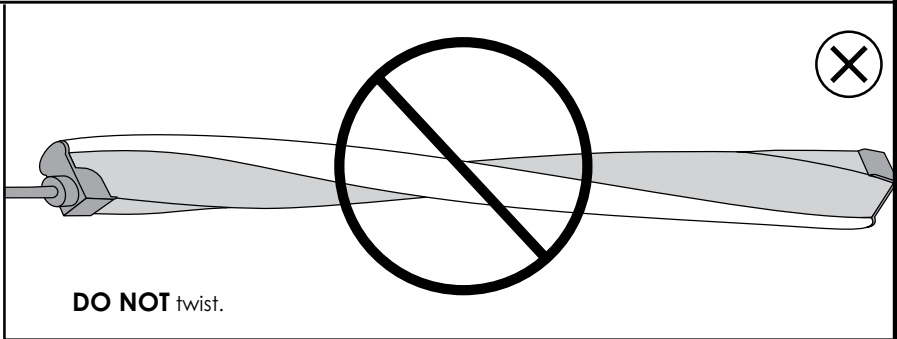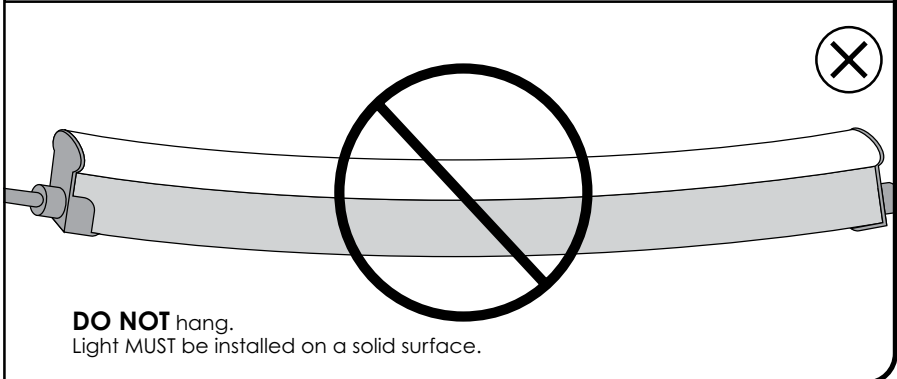length. Slide out plastic tray onto flat surface.

Remove LED Neon light by carefully lifting from the plastic
holding tray.
**NOTE: PLEASE FOLLOW HANDLING INSTRUCTIONS
        (NEXT PAGE) CAREFULLY. IMPROPER HANDLING CAN
        DAMAGE LIGHTS AND VOID WARRANTY.**

LED Neon • Round 4.57 Watt RGB IP68
Handling Guide

Gently bend (along the SIDES) to
create a 'C' or 'S' shape

**Curve no tighter than
80mm circumfrence**

80m   3.14"

80m   3.14"

LED NEON ROUND MAY BE HANDLED IN THE WAYS MENTIONED ABOVE

DO NOT HANDLE LED NEON ROUND AS SHOWN BELOW. **IT MAY DAMAGE YOUR LIGHT**.

DO NOT bend up and/or down.

DO NOT twist.

DO NOT hang.
Light MUST be installed on a solid surface.

LED Neon Light
Round 4.57 Watt RGB IP68

SGi's **Neon Round 4.57 Watt RGB IP68** is a stunning choice for unique lighting installations with dazzling colour changing effects, especially those that are underwater. Neon Round 4.57 Watt RGB IP68 can be bent horizontally up to 80mm, so unique and fun design options are possible. Engineered to provide the highest possible quality, Neon Round 4.57 Watt RGB IP68's smooth and uniform glow is great for applications where the light is a visible design element. Pair with LED Neon Track or Clips for straight, curved and upside down installations. The IP68 rating means it can be fully submersed to upgrade underwater features.

SGi
LIGHTING INC.