

LED SILICONE NEON

CONTENT

- Introduction
- Testing
- Installation
- Case study

S SERIES

VNL-S10C

VNL-S10F

VNL-S6C

VNL-S10F

VNL-S10F-RGB

VNL-S10C-DIGITAL

VNL-S10C

VNL-S10C-AC

SIDE BENDING

Curved into shapes and letters in the same plane as the mounting surface.



F SERIES

VNL-F14C

VNL-F16F

VNL-F16F-HB

VNL-F20C

FRONT BENDING

Ideal for straight runs or mounting
to a curved surface.

SILICONE EXTRUSION



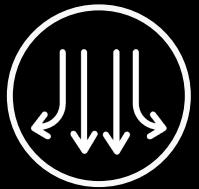
Environmental friendly



UV resistance



Flexibility



Good heat dissipation



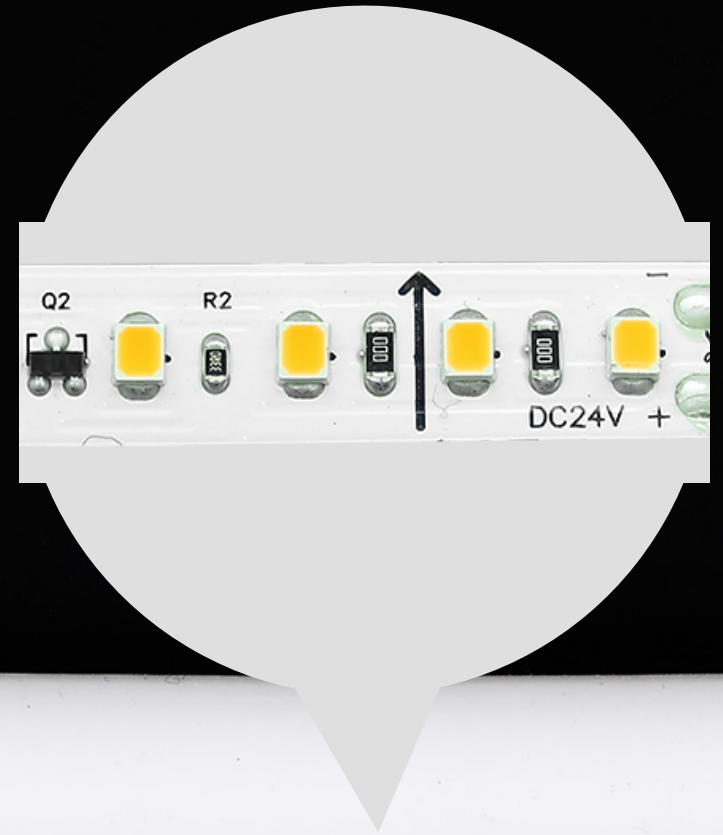
High light transmission



Odorless

LED LIGHT SOURCE

Saturated, homogeneous linear LED strips.
The look of neon with more energy saving and longer lifespan.



CONSTANT BRIGHTNESS

Constant current IC solution for improved light flux

LONG OPERATIONAL LENGTH

Our DC LED neon light can span for lengths up to 30m [98.4 ft] in double feed (some models), and AC neon up to 50m [164 ft] for less wiring, labor and cost.



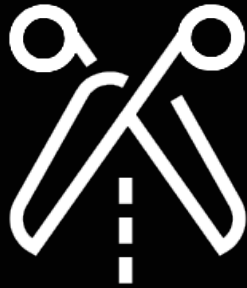
DIMMABLE

The ability to Interface with automation & control systems, making you enjoy full control over the lighting with DALI, DMX, Triac



DMX RDM 

The DMX RDM symbol is a white icon consisting of two curved arrows that cross each other, forming a stylized 'X' shape.



SHORT CUTTABLE SECTIONS

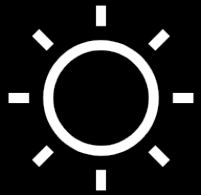
Cutting each 0.39" or 10mm to match your application.



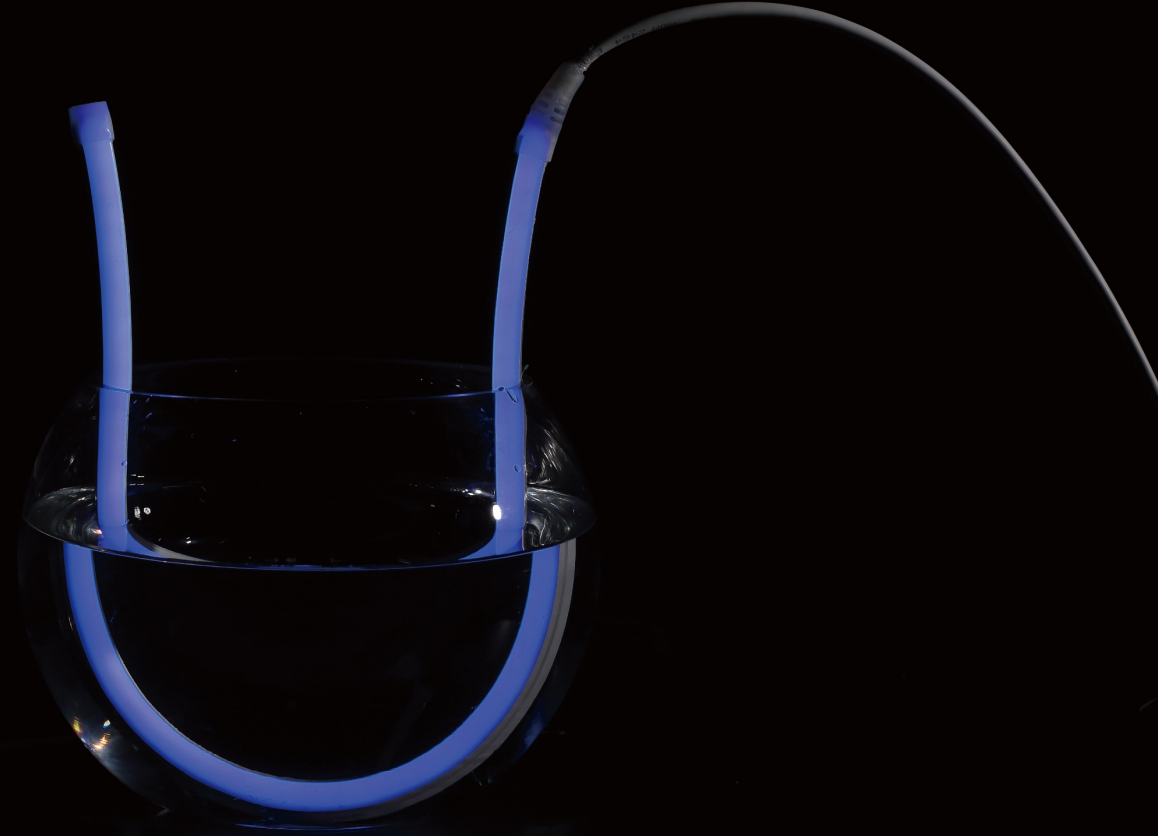
PERFECT FOR OUTDOOR



IP67 protect against dust, water, and condensation in outdoor operation.



UV resistance makes it protect from harsh sunlight.





Red



Green



Blue



Yellow



White

LOTS OF COLOUR OPTIONS

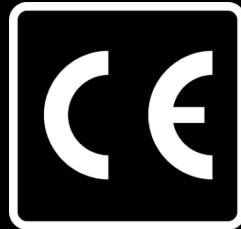
EASY TO INSTALL

Mounting clips accessories
available to shape your
sign



CERTIFICATES

Our Neon light is tested and qualified to UL Underwriters Laboratory, and CE & RoHS certified by SGS.



APPLICATIONS

Ambient lighting

Building facades,
stage, art etc.

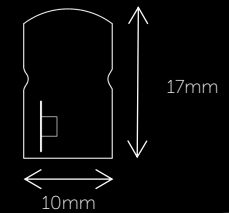
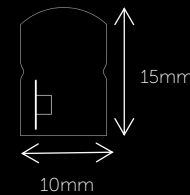
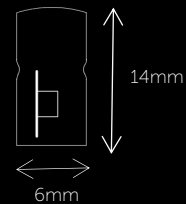
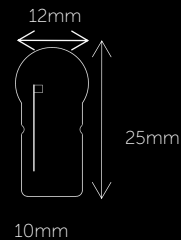
Signage Lighting

Neon sign, pattern,
display, luminous
letter etc.

CINEMAS
BOX OFFICE

SPECIFICATIONS S SERIES

VNL-S10C	VNL-S6F	VNL-S10F	VNL-S10F-RGB
24V	24V	24V	24V
9.6W/m	12W/m	7.68W/M	17.28W/m
120LEDs/m	120LEDs/ m	120LEDs/m	108LEDs/m
R/G/B/Y/W	R/G/B/Y/W	R/G/B/Y/W	RGB
546 Lm/m (White)	433 Lm/m (White)	300 Lm/m (White)	55.25/136.79/26.19 lm/m (R/G/B)
30/15m (Double/Single feed)	10/5m (Double/Single feed)	30/15m (Double/Single feed)	8/4m (Double/Single feed)
IP67	IP67	IP67	IP67
50mm cuttable	50mm cuttable	62.5mm cuttable	55.6mm cuttable
-20~+60°C (WT)	-20~+60°C	-20~+60°C	-20~+60°C
-20~+70°C (ST)	-20~+70°C	-20~+70°C	-
5 years	3 years	3 years	20~+70°C 4 years
12*25mm (W*H)	6*14mm (W*H)	10*15mm (W*H)	10*17mm (W*H)
380*350*350/390*390*325mm (SD)	390*390*325mm (SD)	375*375*200mm (SD)	390*390*200mm (SD)
12.3Kg (GW)	14.3Kg (G.W.)	6.8/11.7Kg (G.W.)	15.5Kg (G.W.)



* WT: Working Temperature

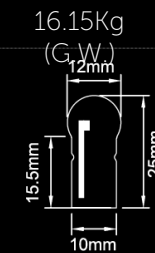
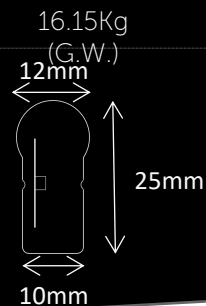
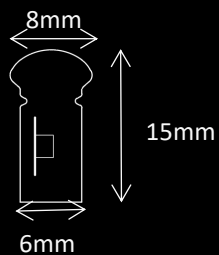
ST: Storage Temperature

SD: Shipping Dimension

GW: Gross Weight

SPECIFICATIONS S SERIES

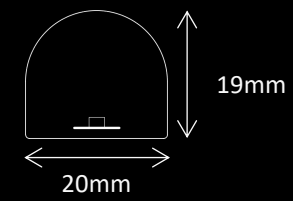
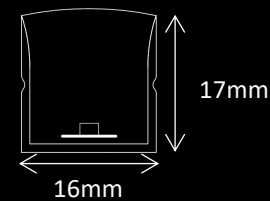
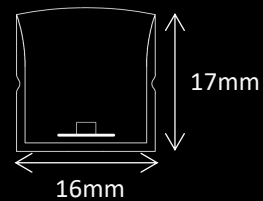
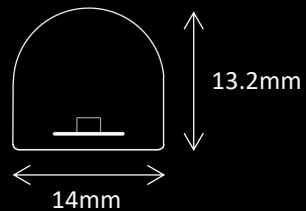
VNL-S6C	VNL-S10C-DIGITAL	VNL-S10C-AC
12V	24V	220VAC
11.52W/m	13W/m	10W/m
96LEDs/m	60LEDs/m	60LEDs/m
R/G/B/Y/W	RGB	RGB
210 Lm/m (White)	60 Lm/m	120 Lm/m
10/5m (Double/Single feed)	20/10m (Double/Single feed)	50m Single feed
IP67	IP67	IP67
10.4mm cuttable	100mm cuttable	500mm cuttable
-20~+60°C (WT)	-20~+60°C	-20~+60°C
-20~+70°C (ST)	-20~+70°C	-20~+70°C
3 years	3 years	5 years
8*15mm (W*H)	12*25mm (W*H)	12*25mm (W*H)
390*390*325 (SD)	390*390*325mm (SD)	390*390*325mm (SD)
14.68Kg (GW)	16.15Kg (G.W.)	16.15Kg (G.W.)



* WT: Working Temperature ST: Storage Temperature SD: Shipping Dimension GW: Gross Weight

SPECIFICATIONS F SERIES

VNL-F14C	VNL-F16F	VNL-F16F- HB	VNL-F20C
24V	24V	24V	24V
7.68W/m	12W/M	18W/M	15.3W/m(W)
112LEDs/m	112LEDs/m	112LEDs/m	96LEDs/m
R/G/B/Y/W	R/G/B/Y/W	200-25000K	R/G/B/Y/W
650 Lm/m (White)	460 Lm/m (White)	1112 Lm/m (White)	494 lm/m (White)
30/15m (Double/Single feed)	30/15m (Double/Single feed)	20/10m (Double/Single feed)	20/10m (Double/Single feed)
IP67	IP67	IP68	IP67
63mm cuttable	62.5mm cuttable	62.5mm cuttable	62.5 cuttable
-20~+60°C (WT)	-20~+60°C	-20~+60°C	-20~+60°C
-20~+70°C (ST)	-20~+70°C	-20~+70°C	-20~+70°C
5 years	4 years	3 years	4 years
14*13.2mm (W*H)	16*17mm (W*H)	16*17mm (W*H)	20*18mm (W*H)
430*400*390mm (SD)	375*375*200mm (SD)	390*390*325mm (SD)	375*375*325mm (SD)
14.5Kg (GW)	6.8/11.7Kg (G.W.)	15,5/16,95Kg (G.W.)	17Kg (G.W.)



FIRST-CLASS TESTING LABORATORY

TÜV Accredited

Blueview has a complete set of testing equipment, which can independently undertake products testings including: lifespan test, reliability test, safety test, IP test, optical test, material test etc., laying the foundation for the product quality.



LIGHT SOURCE



Color parameters

Chromaticity coordinate,
color rendering index



Photo parameters

Luminous flux, efficiency



Electrical parameters

Power, current, voltage

* For detail testing reports, please contact our sales person.

TENSILE TESTING



Test Standards

It is tested according to GB/T16491



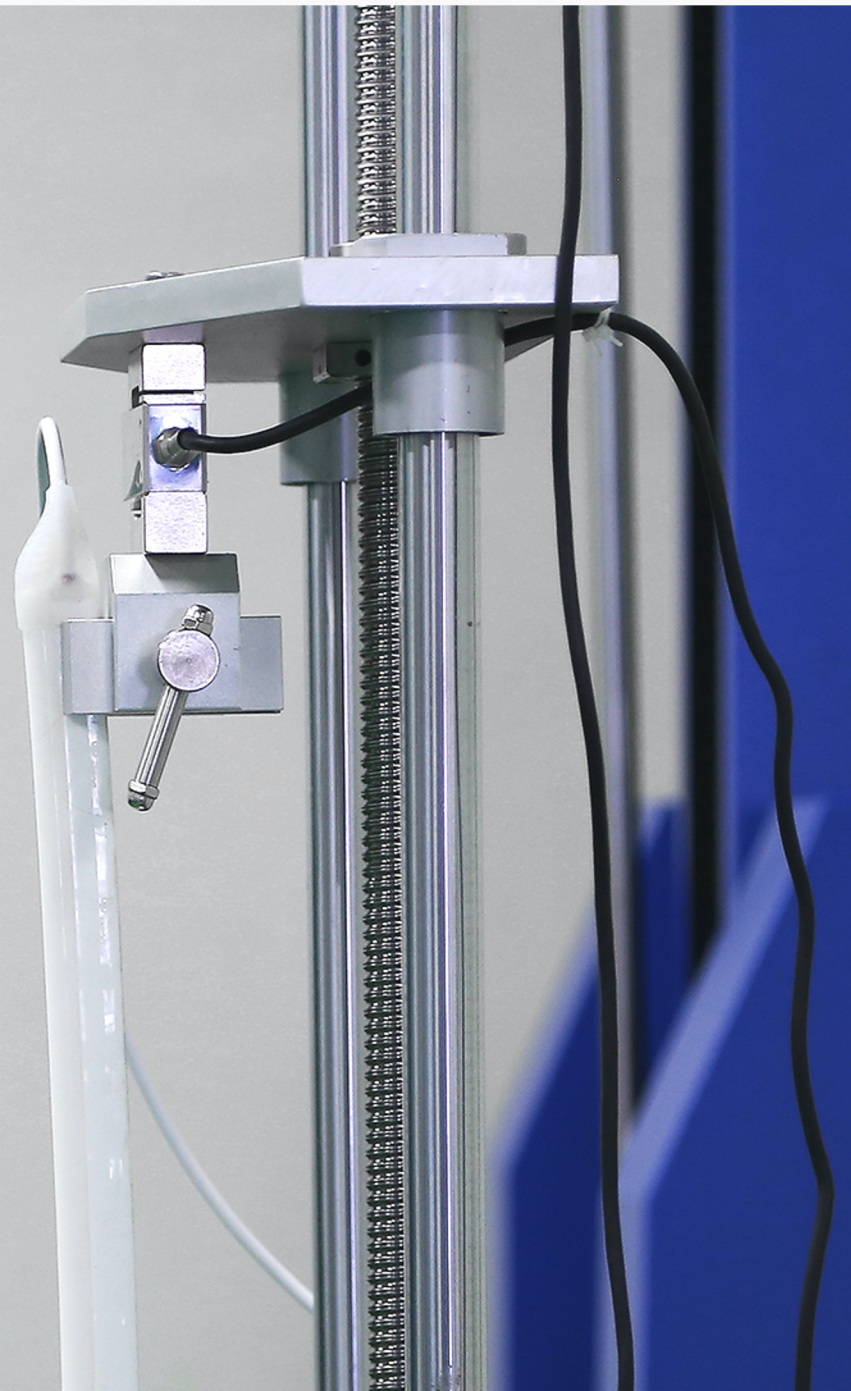
Sample Quantity

S10C, 1m



Qualification Criteria

To determine according to the corresponding technical requirements of the product.



TEMPERATURE & HUMIDITY

Test Condition

High temperature 80°C/humidity 85% 4H, normal temperature 20°C 30 minutes/low temperature -40°C 4H, continuous cycle, and the rated operating voltage is switched once every one hour.

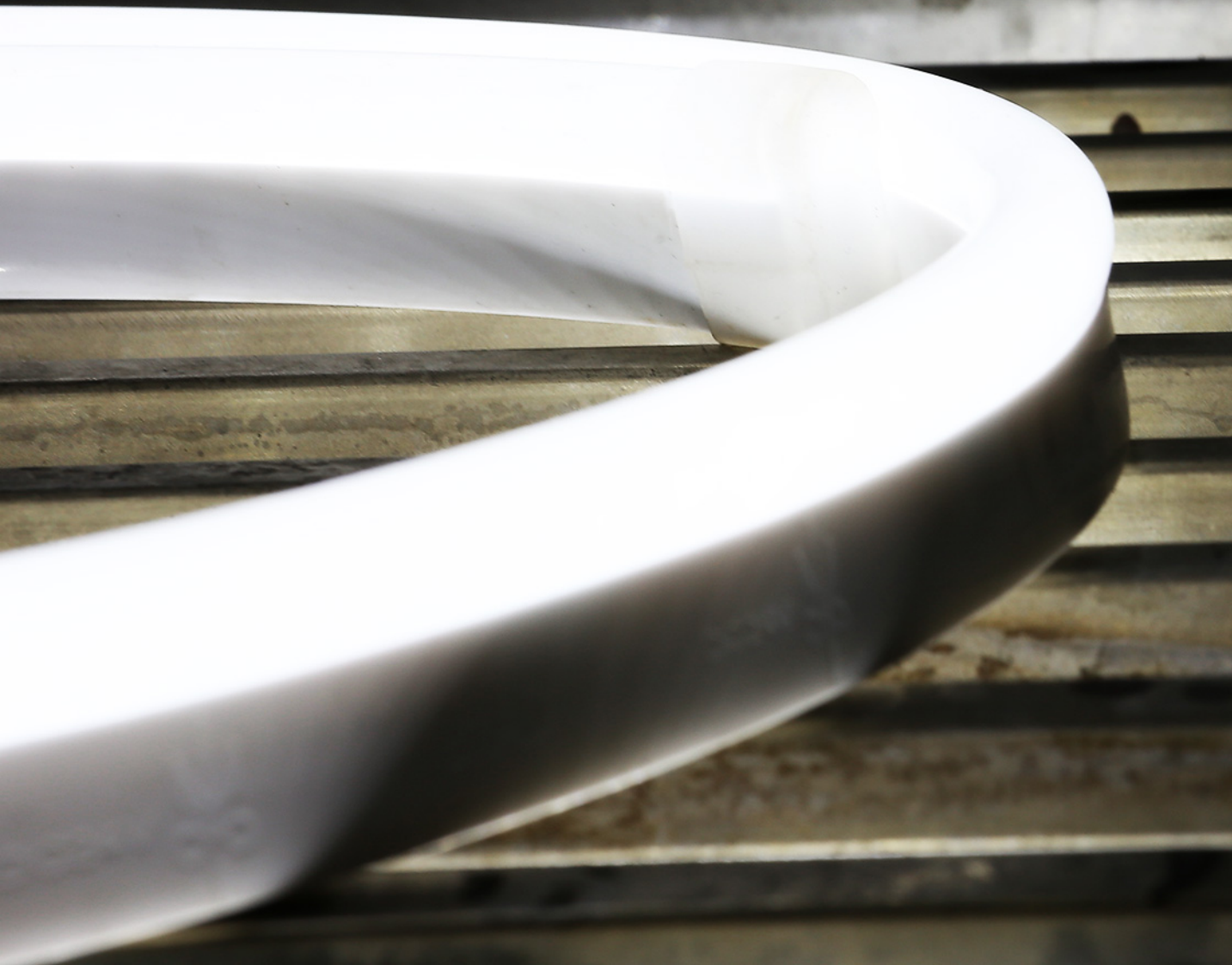
Test Time / Sample Quantity

360 hours / S10C, 1m

Test Result

No dead light, no cracking, no embrittlement or other damage.





TEMPERATURE SHOCK

Test Condition

High temperature 80°C 4H, low temperature -40°C 4H continuous cycle (temperature shifting time 5 minutes), rated operating voltage is switched once every one hour.

Test Time

360 hours

Sample Quantity

S10C, 1m

Test Result

No dead light, no cracking, no embrittlement or other damage.

NEUTRAL SALT SPRAY TEST

Test Method

IEC 60068-2-11:1981/Cor.1:1999

Test Condition

Concentration of solution collected: $(5\pm 1)\%$ NaCl
(m/m)

Chamber temperature: (35 ± 2) °C

Volume of salt solution collected: $(1.0\sim 2.0)$ ml/
 $(80\text{cm}^2 \cdot \text{h})$

pH of collected solution at (35 ± 2) °C : $6.5\sim 7.2$

Exposure period: 168h

Test Result

Appearance: No visual change

SGS



LIGHT AGEING TEST-XENON- ARC EXPOSURE

SGS

Exposure Cycle

ISO 4892-2:2013 Cycle 1

Irradiance: $(0.51 \pm 0.02) \text{W}/(\text{m}^2 \cdot \text{nm})$ @ 340nm

102 min light at $(65 \pm 3) \text{ }^\circ\text{C}$ BST, $(38 \pm 3) \text{ }^\circ\text{C}$ CT,
 $(50 \pm 10)\%$ RH

18 min light and water spray

Filter: Boro/Boro

Exposure Period

1000 hours

Test Result

Pass: Meet the requirements.

FLAMMABILITY



Burn the sample with a lighter within 30s.



Release the ignition button, and the flame on the sample extinguished immediately.

IP68 TESTING



IP6X

Test for protection against solid foreign objects indicated by the first characteristic numeral

Test duration: 8h



IPX8

Test for protection against water indicated by the second characteristic numeral

1 m below the surface of the water

Test duration: 1h

SGS

Test Report

Report No.: GZES170300319731

Date: 2017-03-20

The following sample(s) was/were submitted and identified on behalf of the client as:

Applicant: Blueview Elec-optic Tech Co., Ltd.
No.1000, Section 2, 2nd Konggang Road, Southwest Aviation Industrial Development Zone, Shuangliu, Chengdu, Sichuan, China

Manufacturer: Same as applicant

Testing location/address: SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch
198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China

Test object: LED Strip

Model: NXX

Rating: DC 24 V; 9,6 W

Test specifications / Test standard: IP68 / Sub-Clause 13.6 and Sub-Clause 14 of IEC 60529: 1989 + A1: 1999 + A2: 2013

Purpose of examination: Test according to the test specification

Test result: In the opinion of SGS – CSTC the presented appliance was found to be in compliance with the test specification as indicated in the details on the following pages.

Remark: Throughout this report a comma (point) is used as the decimal separator. When determining for test conclusion, measurement uncertainty of tests has been considered.



According to clients' requirement, the connecting leads have not been considered.

Karen Xie
Reviewer
E&E Safety Laboratory

Albee Chen
Project Engineer

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TEMPERATURE CYCLING

Test Condition

High temperature 80°C 4H, normal temperature 20°C 1H, and low temperature -40°C 4H. The rated operating voltage is switched once every hour.

Test Time

360 hours

Sample Quantity

F14F, 1m

Test Result

No dead light, no cracking, no embrittlement or other damage.

EFFECT OF LIQUIDS



Test Method

ISO 1817:2015



Test Solution

92# gasoline



Test Result

Pass: Meet the requirements;
no evident change



Test Condition

Immersion, test
temperature at 23 °C



Test Time

72 hours



Test Lab

SGS Guangzhou Branch

AGING

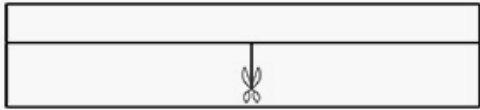
Test Condition

Continuous lighting the at room temperature for 288 hours.

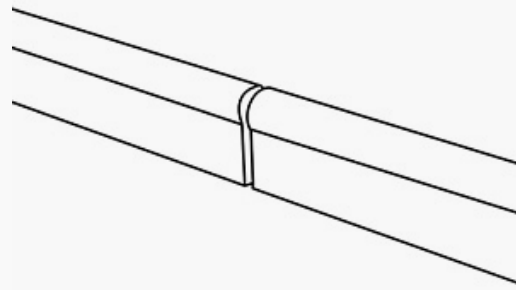
Test Result

The samples have no color change, no failure, no crack and other damage.

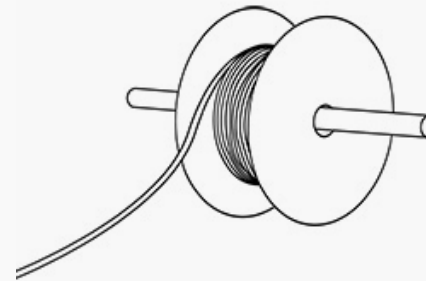
PRECAUTIONS S SERIES



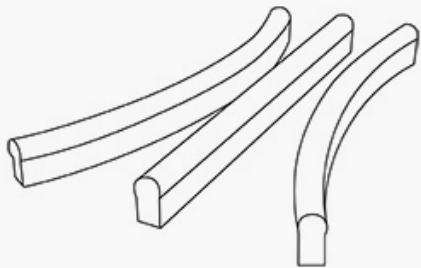
Cutable mark



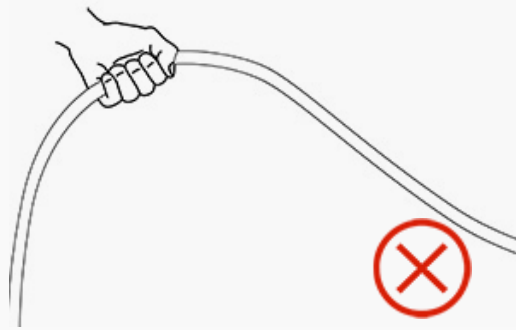
Cut straight



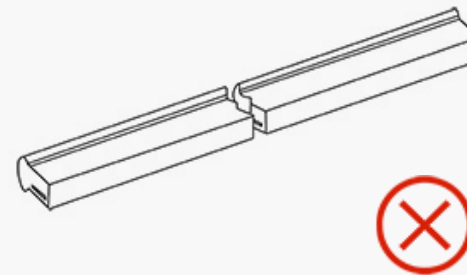
Slide a spindle into the roll and then place the roll with spindle on top of the box provided.



Left and right bending

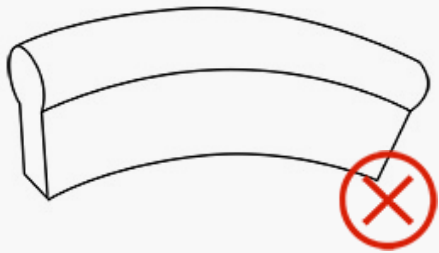


Gently unroll without excessive force

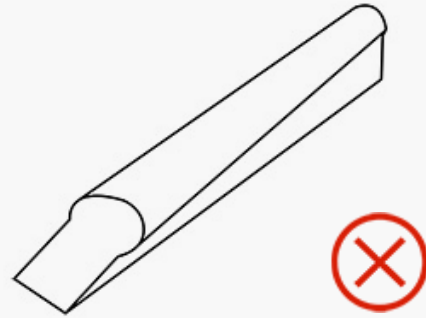


Do not cut on an angle

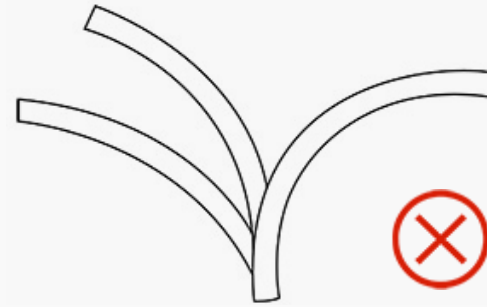
PRECAUTIONS S SERIES



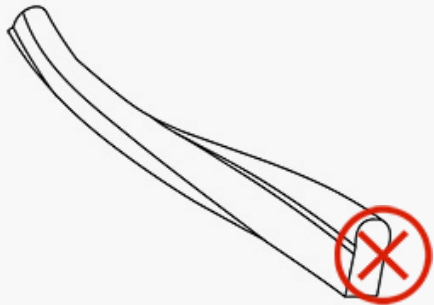
Incorrect bending



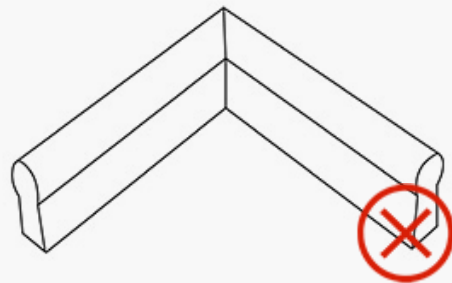
Do not twist



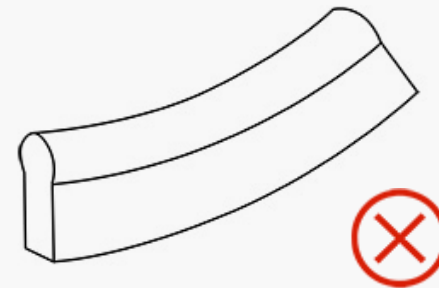
Do not repeatedly bending



Do not wringing



Do not Bend to a 90° angle



Incorrect bending


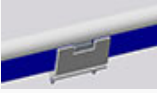






CUTTING THE STRIPS



ACCESSORIES S SERIES

Picture	Item	VNL-S10C	VNL-S6F	VNL-S10F	VNL-S10F-RGB
	End exit	●	●	●	●
	Bottom exit	●			
	Right side exit	●			
	Left side exit	●			
	End cap	●	●	●	●
	Splice connector	●			
	L Connector	●			
	O-ring	●			

ACCESSORIES S SERIES

Picture	Item	VNL-S10C	VNL-S6F	VNL-S10F	VNL-S10F-RGB
	Gasket	●			
	Aluminum track	●		●	●
	Silicone glue 923L	●	●	●	●
	White sheathed wire	●			
	Foldable housing				
	Grip plate	●		●	●
	Plastic clip		●	●	●
	Screw		●	●	●

TOOLS



Ratcheting Cutter



Electric Screwdriver



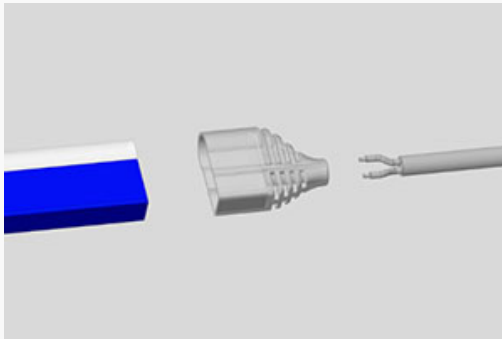
Silicone Glue



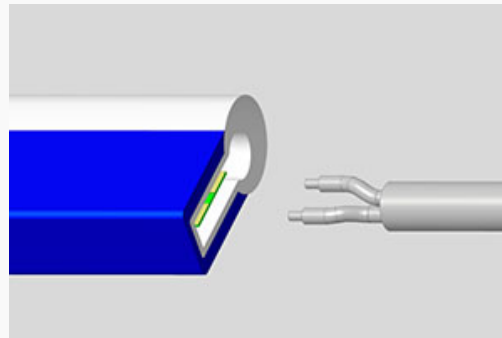
Brush

CONNECTION

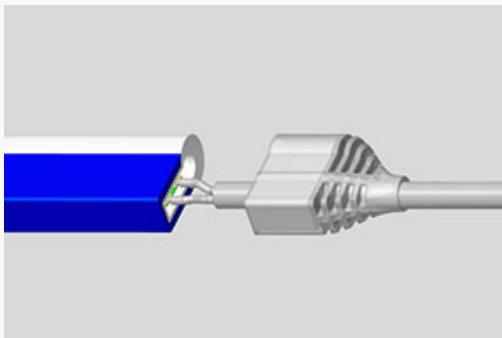
End exit



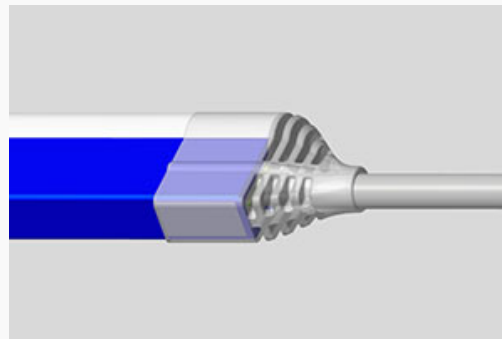
Structure



Solder the power lead on the PCB



Glue the joint of light and end exit

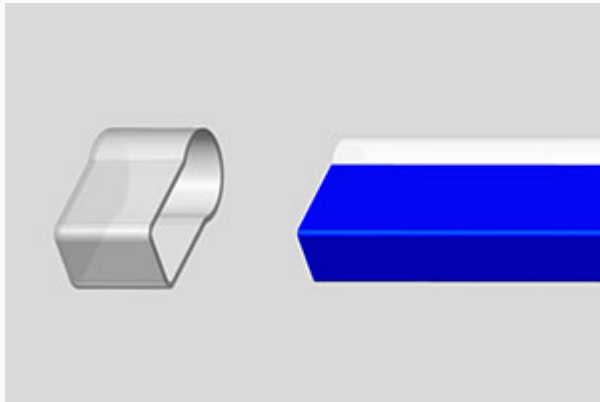


Push in the end exit to finish

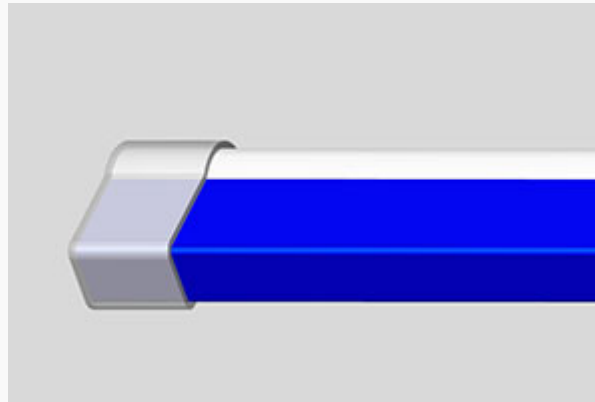
* Silicone end version of N2-4 neon light as an example, please refer to User Manual for more.

CONNECTION

End cap



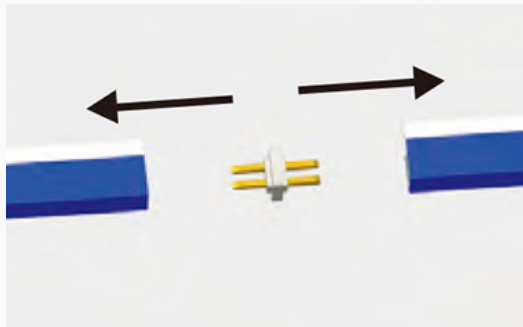
Glue at the end of light and end cap



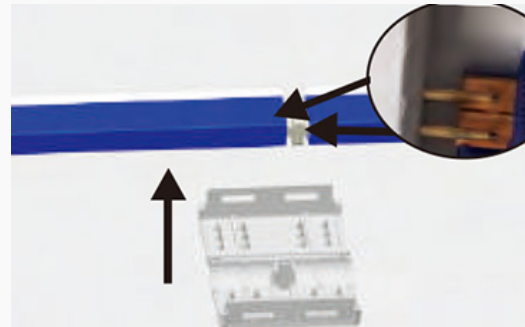
Push in the end cap to finish

CONNECTION

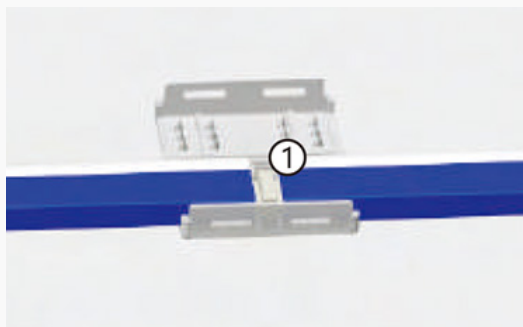
Splice connector



Insert the pin (the pin on the back of PCB)



Apply glue on the light and housing, then put the light into the housing



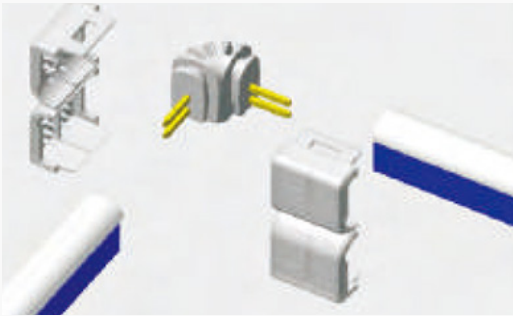
Close the housing



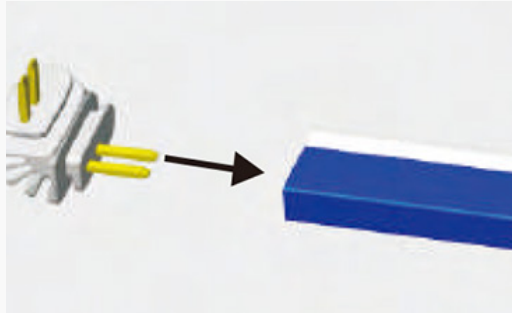
Finished

CONNECTION

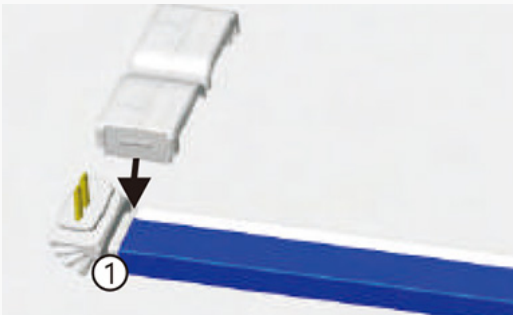
L connector



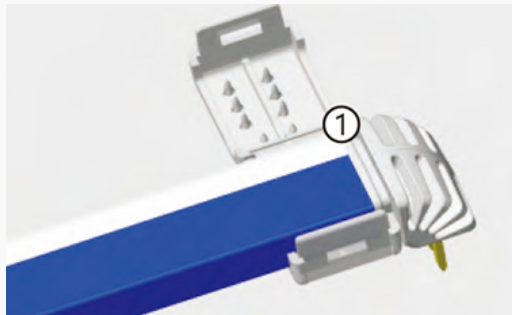
Structure



Insert the pin (the pin on the back of PCB)



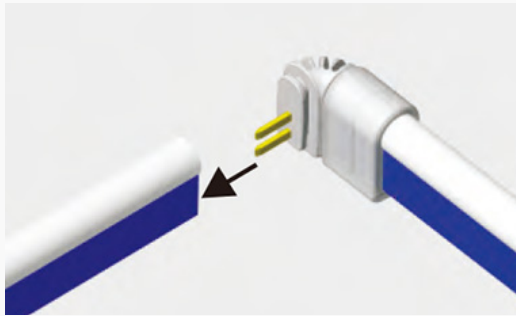
Apply glue on the light and housing, then put the light into the housing



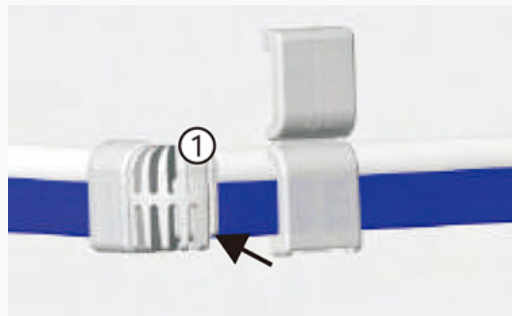
Close the housing

CONNECTION

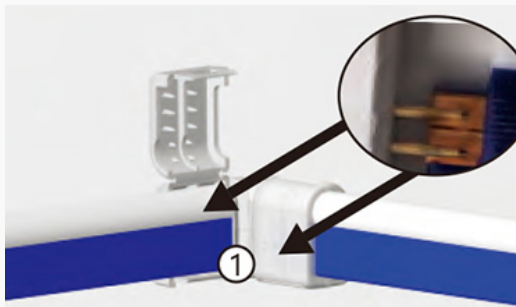
L connector



Insert the pin (the pin on the back of PCB)



Apply glue on the light and housing, then put the light into the housing



Close the housing

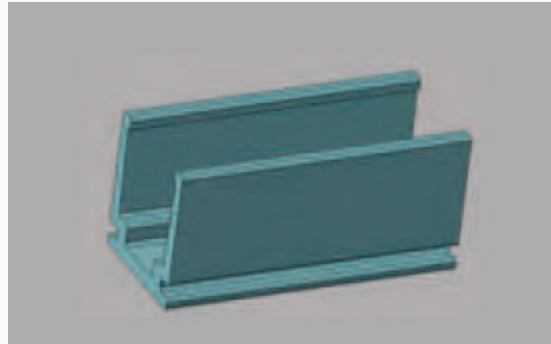


Finished

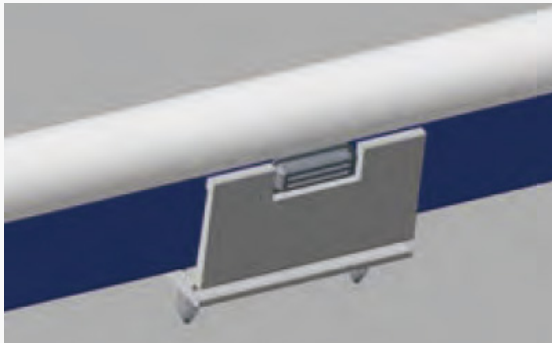
INSTALLATION



Apply the Aluminum track onto the mounting surface with screws



Aluminum track only (Optional)



Push the light into the track

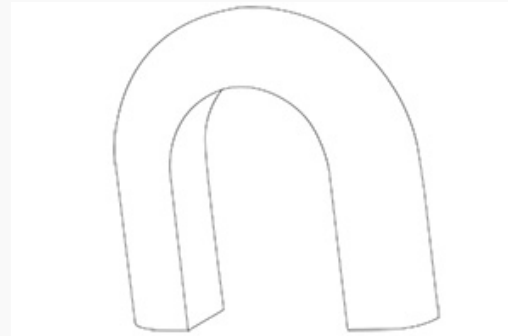


Finished

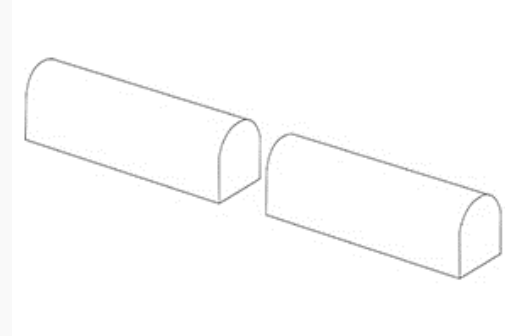
INSTALLATION F SERIES



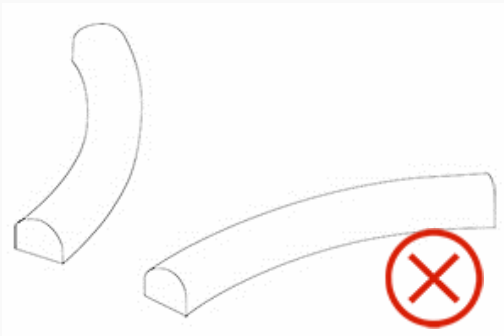
Spiral using



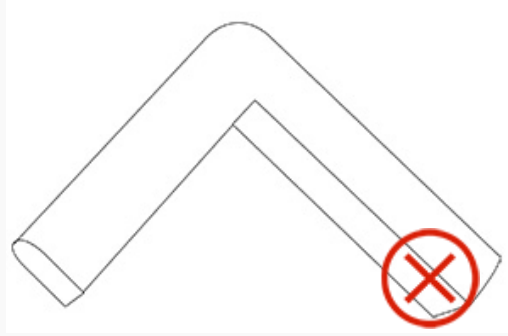
Bendable using



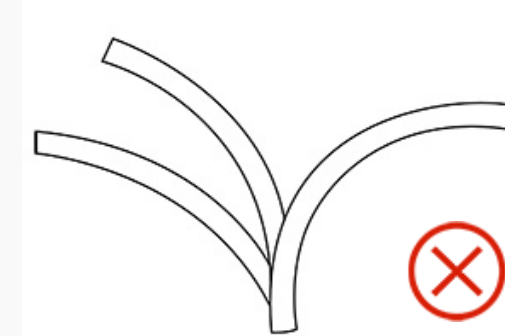
Cut straight and do not cut on an angle



No left and right bending



Do not Bend 90 °



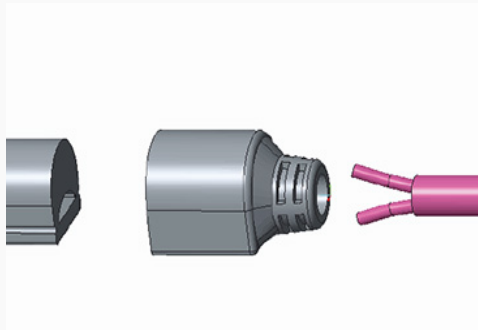
Do not twist and do not bend repeatedly

ACCESSORIES F SERIES

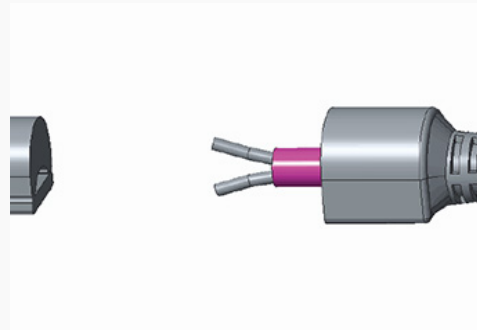
Picture	Item	VNL-F14C	VNL-F16F	VNL-F20C-RGB	VNL-F20C
	End exit	●	●	●	●
	End cap	●	●	●	●
	Plastic clip			●	
	Grip plate	●			
	Aluminum track	●			
	Silicone clip	●			
	Screw	●	●	●	●
	Silicone glue 923L	●	●	●	●

CONNECTION

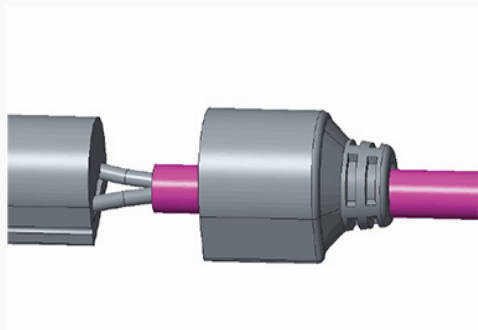
End exit



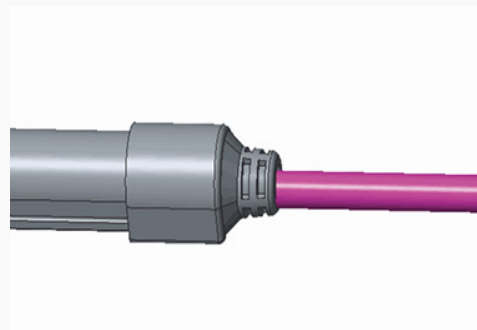
Structure



Solder the power lead on the back of PCB



Glue the joint of light and end exit

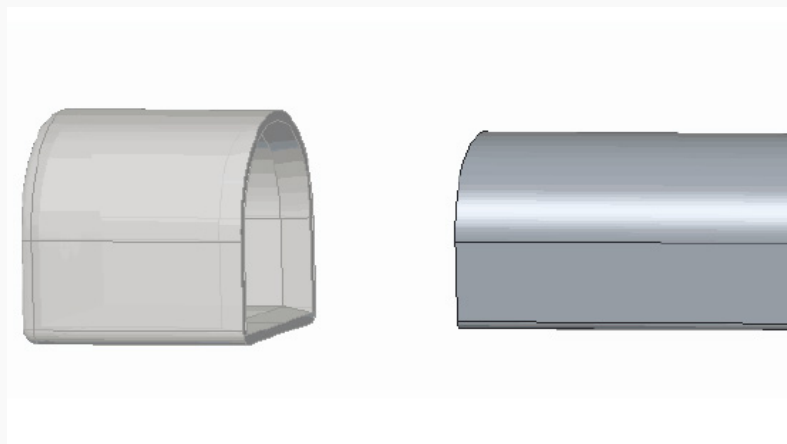


Push in the end exit to finish

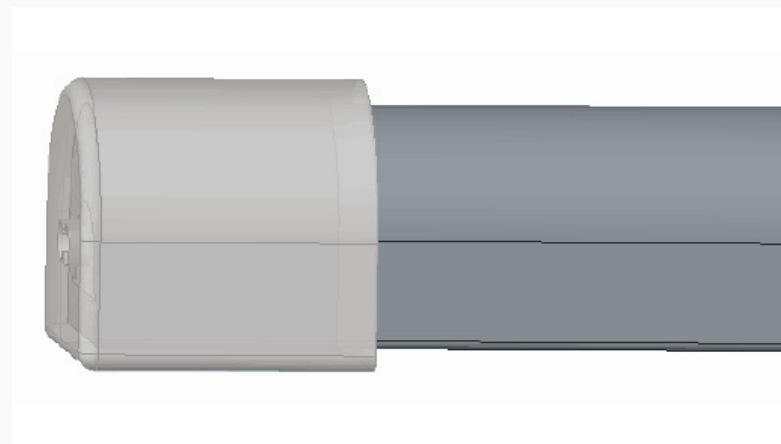
* Take ND2-14 neon light as an example, please refer to User Manual for more.

CONNECTION

End cap



Glue at the end of light and end cap



Push in the end cap to finish

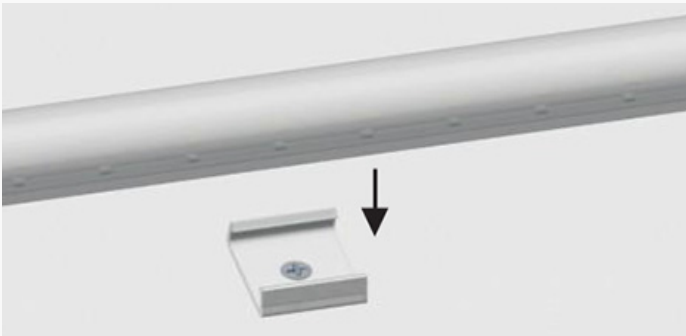
INSTALLATION



Structure



Screw the clip onto the mounting surface



Push the light into the track



Finished



CASE STUDY



Hospital in abu dhabi

Our pink S10C neon lights were used for this hospital building facade in Abu Dhabi to bring a vitality & elegance atmosphere

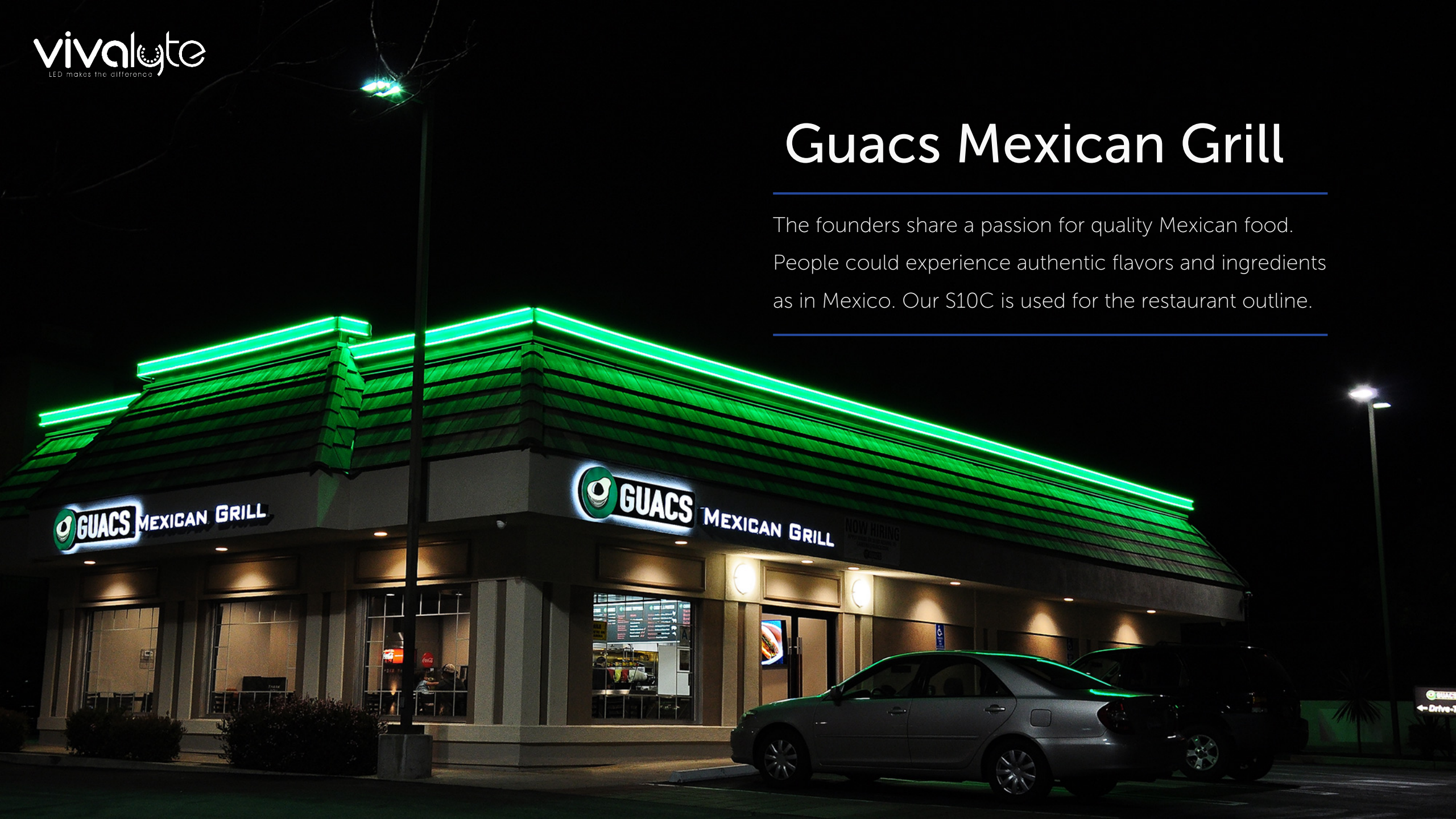
Hard Rock Cafe

Hard Rock is a haven for fans of music, food, and great times. HRC is known for its collection of rock-and-roll memorabilia. Our LED silicone neon S10C products were used in this sign.



Guacs Mexican Grill

The founders share a passion for quality Mexican food. People could experience authentic flavors and ingredients as in Mexico. Our S10C is used for the restaurant outline.



Hard Rock Cafe

Hard Rock is a haven for fans of music, food, and great times. HRC is known for its collection of rock-and-roll memorabilia.



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LED makes the difference

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LED makes the difference