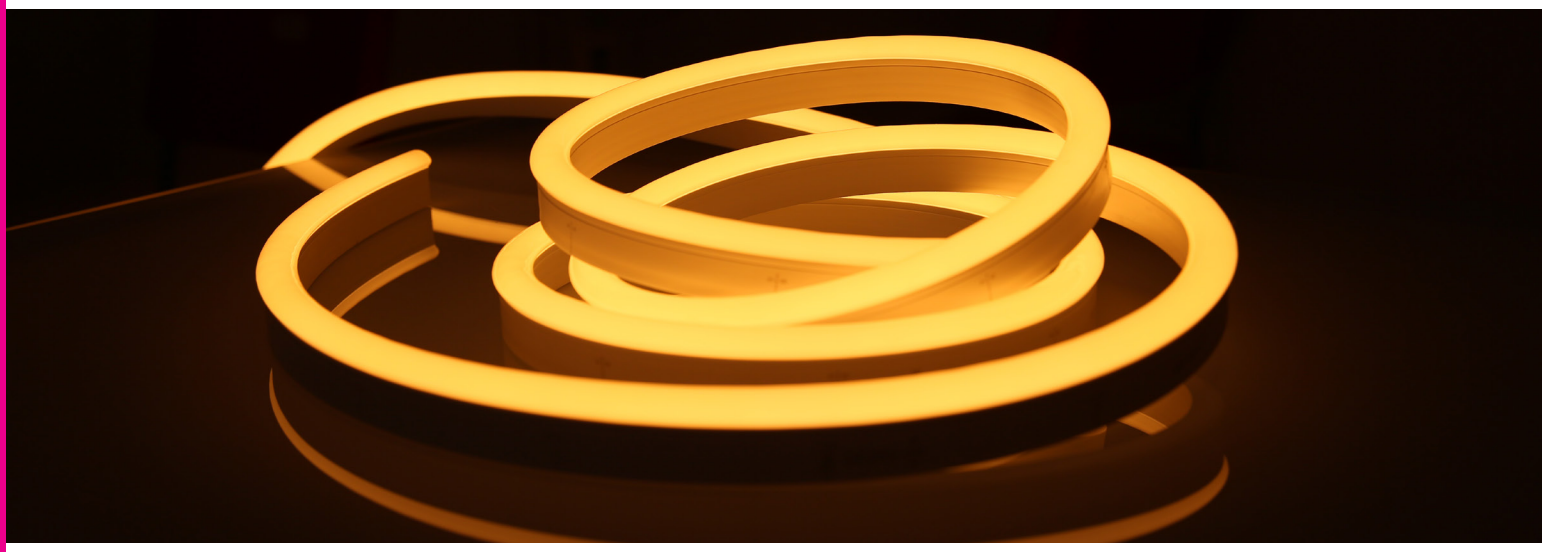
LEDneon·flex

Version 5.2



VIVID BASIC

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c UL us LISTED E347880

For More Information

Toll Free: 1 (888) 580-6366

Or Visit www.GLLS.com /contact-us/

BASIC

Technical Specifications

Light Dimension 0.45 x 1.02in (11.5x26mm)

Output	Red/Amber	Green/Blue/White
LED Light	Epistar SMD LED Chip	
Max Run Length*		
Single Feed	65.62ft (20m)	49.21ft (15m)
Double Feed	131.23ft (40m)	98.43ft (30m)
Light Surface	Round profile 270°	
Lumen Maintenance	70,000 Hours L70 @ 25°C : 90,000 L50 @ 25°C 50,000 Hours L70 @ 50°C : 70,000 Hours L50 @ 50°C	
Electrical		
Input Voltage	24V DC	
Power Consumption	1.07W/ft (3.5W/m)	1.37W/ft (4.5W/m)
Physical		
LED Count	22 LEDs/ft (72 LEDs/m)	
LED Spacing	0.55in (13.89mm)	
Cutting Unit Length	4.92in (125mm) (9 LEDs)	3.28in (83.3mm) (6 LEDs)
Thermal Management	Free air convection	
Fixture Connections	End, side & bottom lead wires	
Minimum Bend Diameter	4.72in (120mm) (Side Bending)	
Temperature Ranges		
Installation	32°F to 140°F (0°C to 60°C)	
Operating	-13°F to 140°F (-25°C to 60°C)	
Humidity	0-95% non condensing	
Dependability		
Warranty	5 Year Warranty	
Safety		
Certification	Tested to UL & CSA by Underwriters Laboratory for use in USA and Canada, complies with California Title 24 Requirements, Lighting Facts. Exceeds ANSI C78.377A, CE & RoHS Compliant.	
IP Rating	IP68 with appropriately rated accessories	

*Max Run Length: Unless otherwise stated, snap and seamless run lengths are the same.

VIVID BASIC

Technical Specifications

Available Colors

Color	Wavelength/CCT
Red	620-630nm
Green	520-530nm
Blue	465-475nm
Amber	585-595nm
2200K	2238 ± 102K
2500K	2460 ± 120K
2700K (WW)	2725 ± 145K
3000K	3045 ± 175K
3500K (W)	3465 ± 245K
4000K	3985 ± 275K
4500K (CW)	4503 ± 243K
5000K	5029 ± 283K
5700K (DW)	5669 ± 355K

Lumen Count

Color	Per Foot	Per Meter	Power
Red	>18.29lm	>60lm	1.07W/ft (3.5W/m)
Green	>30.48lm	>100lm	1.37W/ft (4.5W/m)
Blue	>6.1lm	>20lm	1.37W/ft (4.5W/m)
Amber	>19.81lm	>65lm	1.07W/ft (3.5W/m)
2200K	>42.67lm	>140lm	1.37W/ft (4.5W/m)
2500K	>42.67lm	>140lm	1.37W/ft (4.5W/m)
2700K (WW)	>42.67lm	>140lm	1.37W/ft (4.5W/m)
3000K	>48.77lm	>160lm	1.37W/ft (4.5W/m)
3500K (W)	>48.77lm	>160lm	1.37W/ft (4.5W/m)
4000K	>48.77lm	>160lm	1.37W/ft (4.5W/m)
4500K	>48.77lm	>160lm	1.37W/ft (4.5W/m)
5000K	>48.77lm	>160lm	1.37W/ft (4.5W/m)
5700K (DW)	>42.67lm	>140lm	1.37W/ft (4.5W/m)

2500K, 4500K, 5000K: Minimum order quantity of 200 meters.

*Color Jackets:

For standard or custom color jacket options, contact your Account Manager. Min. order quantity of 656ft (200m).

CRI90

Available Colors

Color	CCT
2200K	2238 ± 102K
2500K	2460 ± 120K
2700K (WW)	2725 ± 145K
3000K	3045 ± 175K
3500K (W)	3465 ± 245K
4000K	3985 ± 275K
4500K (CW)	4503 ± 243K
5000K	5029 ± 283K

Lumen Count

Color	Per Foot	Per Meter	Power
2200K	>36.57lm	>120lm	3.66W/ft (12W/m)
2500K	>36.57lm	>120lm	3.66W/ft (12W/m)
2700K (WW)	>36.57lm	>120lm	3.66W/ft (12W/m)
3000K	>36.57lm	>120lm	3.66W/ft (12W/m)
3500K (W)	>42.67lm	>140lm	3.66W/ft (12W/m)
4000K	>42.67lm	>140lm	3.66W/ft (12W/m)
4500K (CW)	>42.67lm	>140lm	3.66W/ft (12W/m)
5000K	>42.67lm	>140lm	3.66W/ft (12W/m)

For 2200K, 2500K, 4500K, 5000K: Minimum order quantity of 100 meters.

Testing

Certifications

	Testing Organization	Certificate Serial N°	Report Reference
UL 2108	UL	20160726-E360029	E360029-2013
CE-EMC	SGS	SZEM1702001259LMV	SZEM160600421302

Fixture Testing

Optical Testing

Spectrum Analysis	IES LM 79 (Lumen, CCT, CRI, XY, SDCM, wavelength)
Photometric Distribution	IES LM 73 (Lumen intensity distribution & Lux diagram)
Lumen Maintenance & Lifetime	IES LM 84 & IES TM28

Temperature Testing

Normal Temperature Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
Abnormal Operation Test	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21

Durability Testing

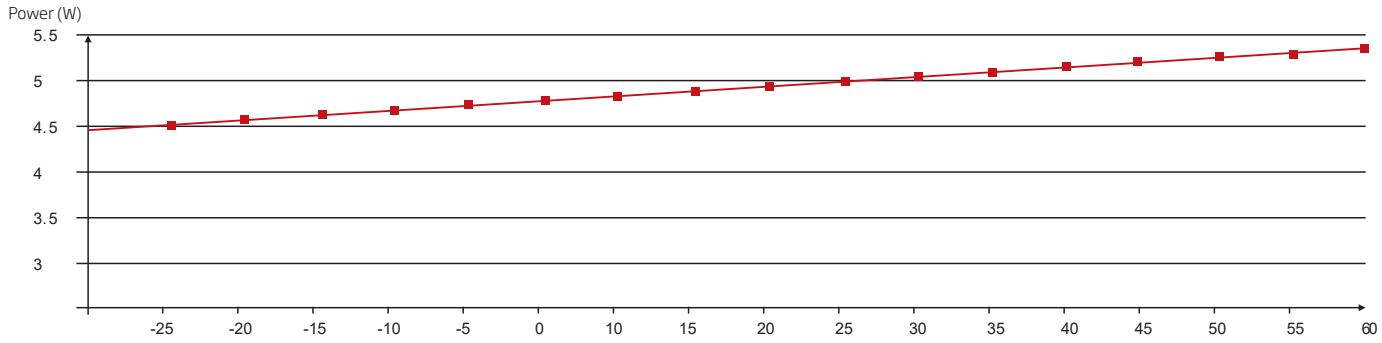
Bending Test	Manufacturer-defined, 500 cycles
Swing Test	UL2388, >750 cycles
Tensile Test	Manufacturer-defined, > the weight of light in max. connection length double feed
Twist Test	Max connection length double feed Manufacturer-defined, >200 cycles
Ball Impact	UL1598 & UL2388 & IEC60598-1 & IEC60598-2-21
IK07 IK08	IEC62262

Environmental Testing

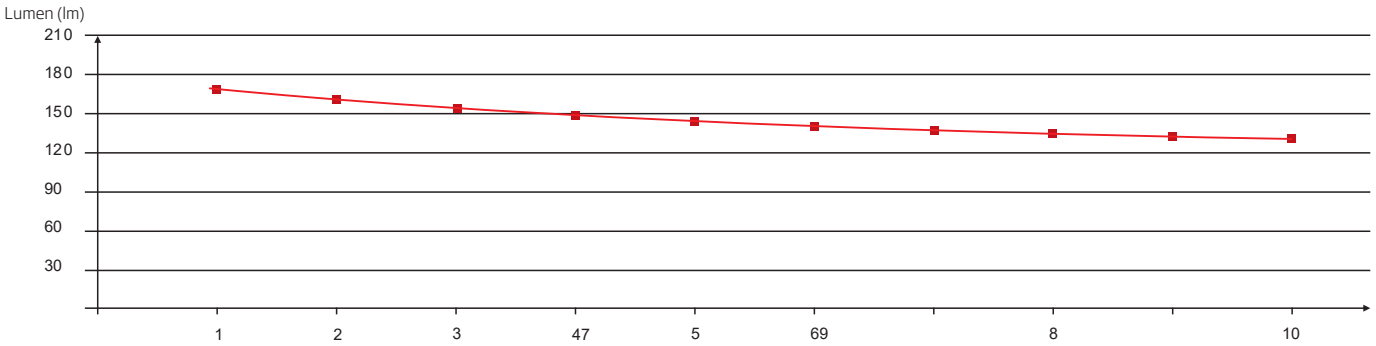
Chlorinated Water Immersion	BG9667, PH6.8-7.6, free chlorine 0.3-0.6mg/L
Salt Water Immersion	IEC60598-1, Sailinity 4%
Salt Spray Test	IEC68-2-11
Outdoor Exposure	Manufacturer-defined
Flame Resistance	UL94
UV Exposure	ASTMG 154, ISO 4892-3, UVA @ 340nm
IPX5, IPX6, IPX7, IPX8	IEC60529
Temperature Shock	Manufacturer-defined, -40°C - 60°C (typical temperature range)
Constant Temperature	Manufacturer-defined

Testing

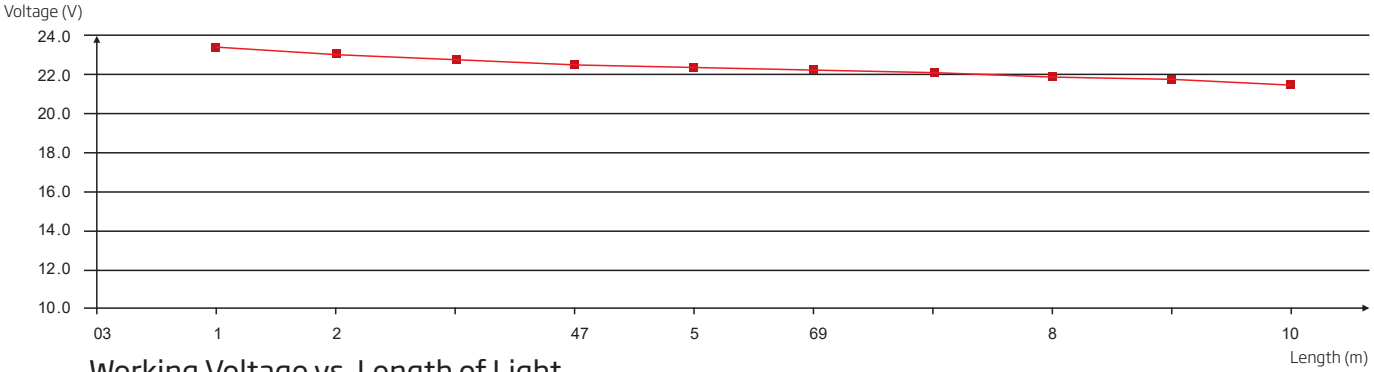
Charts



Working Temperature vs. Power



Luminous Flux vs. Length of Light



Working Voltage vs. Length of Light

Testing

Charts

ANSI STANDARD

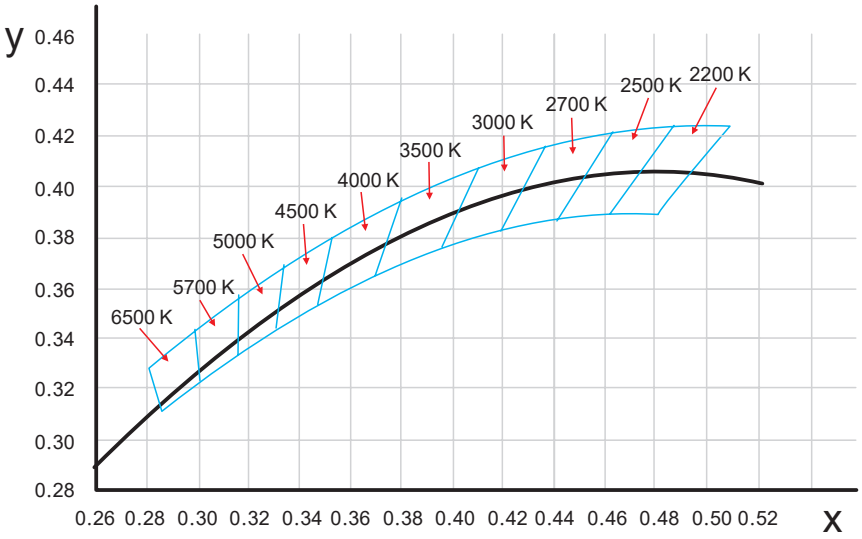
Nominal CCT Categories

Nominal CCT	Target CCT and tolerance(K)	Target D_{uv}	D_{uv} Tolerance Range
2200K	2238 ±102	0.0000	Tx:CCT of the source
2500K	2460±120	0.0000	For Tx<2870K
2700K	2725 ±145	0.0000	0.000±0.0060
3000K	3045±175	0.0001	For Tx≥2870K
3500K	3465±245	0.0005	Duv(Tx)±0.0060
4000K	3985±275	0.0010	where
4500K	4503±243	0.0015	Duv(Tx)=57700 x (1/Tx)2
5000K	5029±283	0.0020	-44.6 x (1/Tx)
5700K	5667±355	0.0025	+0.00854
6500K	6532±510	0.0031	
Flexible CCT (2200-6500K)	T_F [1] ±ΔT [2]	$D_{uv}T_F$ [3]	

Remark:

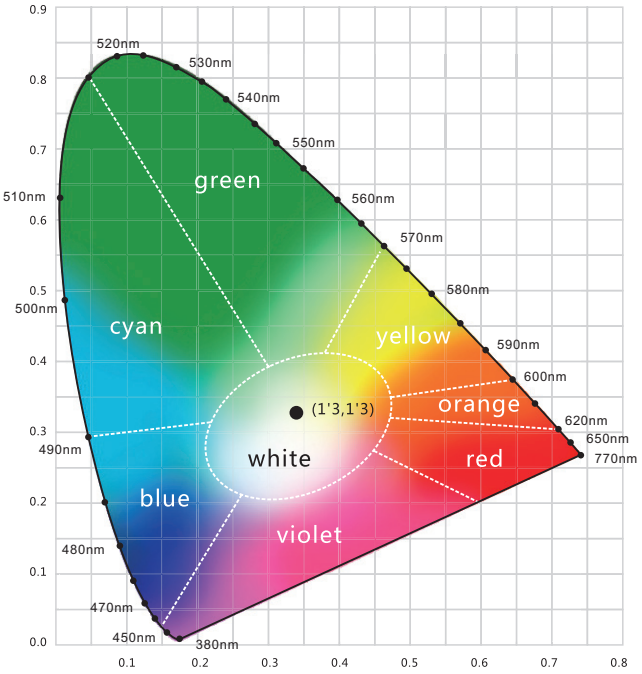
1) T_F is chosen to be at 100K steps (2300,2400,.....,6400K),excluding the ten nominal CCTs listed in Table 1.
2) $\Delta T=1.1900x10^{8}xT^{3}-1.5434x10^{4}xT^{2}+0.7168xT-902.55$
3) Same as in the D_{uv} Tolerance Range.

(X,Y) Chromaticity Diagram



Testing

Charts



Light Color

Red
620-630nm

Green
520-530nm

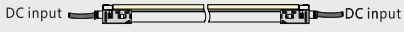
Blue
465-475nm

Loading Chart

Power Supply

Rated Power	35W	60W	75W	80W	100W	120W	150W	185W
1.07W/ft (3.5W/m)	26.25ft (8m)	45.93ft (14m)	55.77ft (17m)	59.06ft (18m)	75.46ft (23m)	88.58ft (27m)	111.55ft (34m)	137.8ft (42m)
1.37W/ft (4.5W/m)	19.69ft (6m)	32.81ft (10m)	39.37ft (12m)	42.65ft (13m)	52.49ft (16m)	62.34ft (19m)	78.74ft (24m)	98.43ft (30m)
Lead Type	Single Feed				Double Feed			





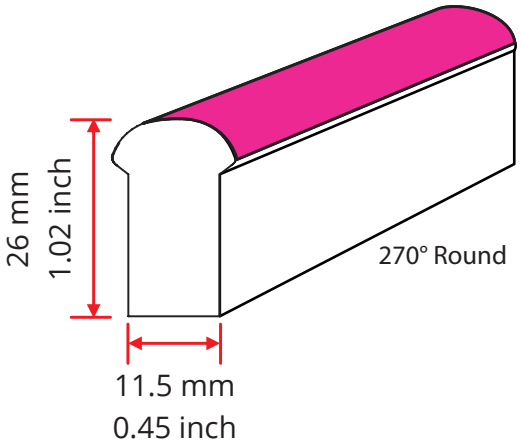
Note: These are the max recommended run lengths based on power supply

For example: It is recommended to use one 80W power supply for a single-fed run of 59.06ft (18m) at 1.07W/ft (3.5W/m), or for a single-fed run of 42.65ft (13m) at 1.37W/ft (4.5/m).

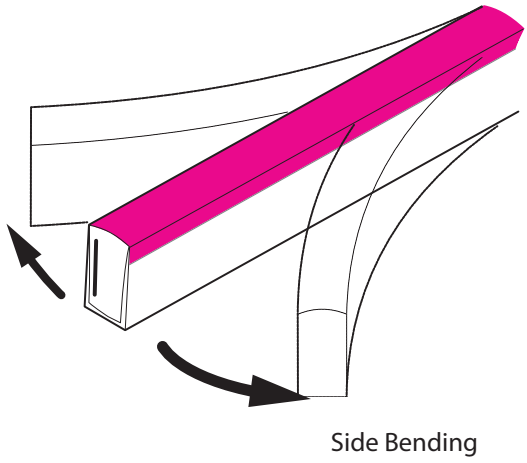
Physical Specifications



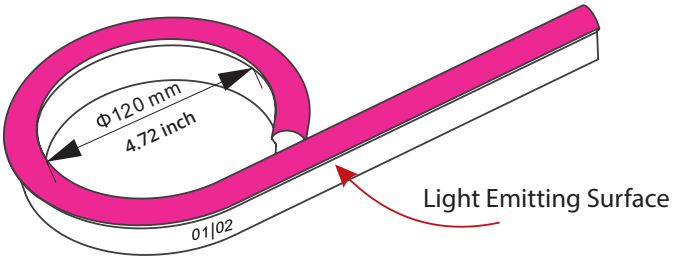
Light Profile

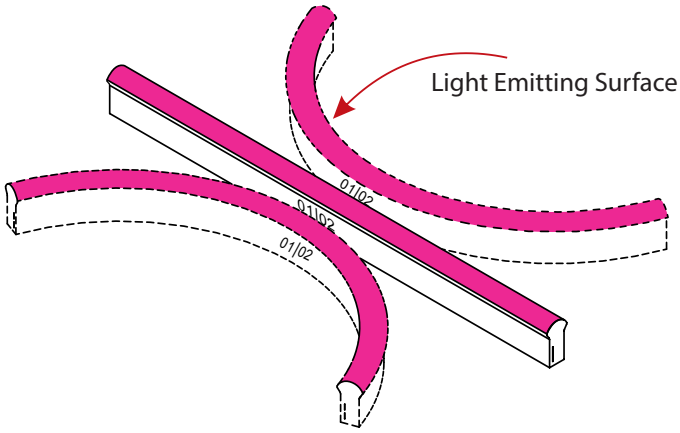


Bending Direction



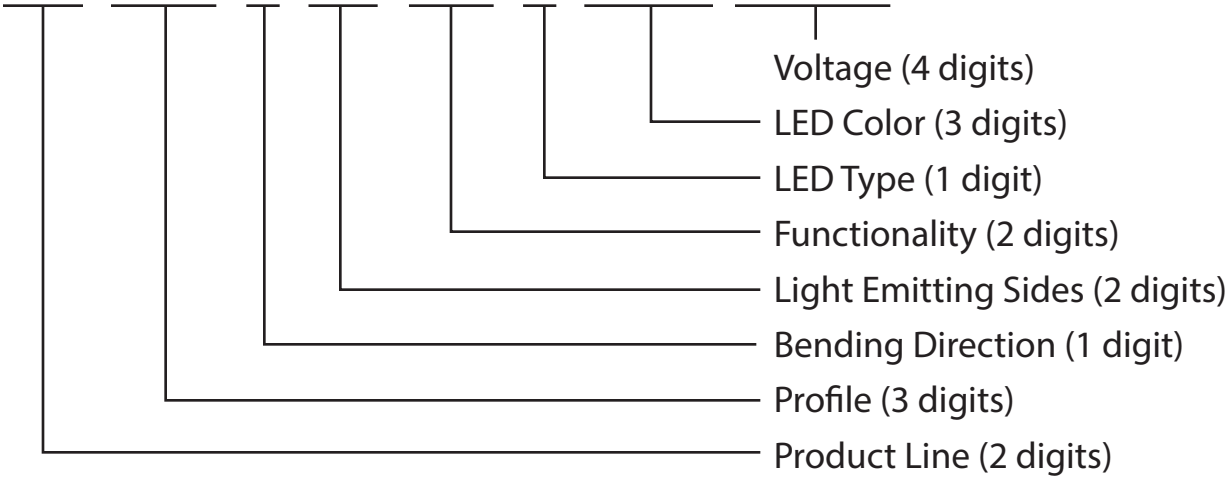
Minimum Bending Diameter





Part Number Naming Convention

NF-11C-1-01-XW-E-XXX-XXXX

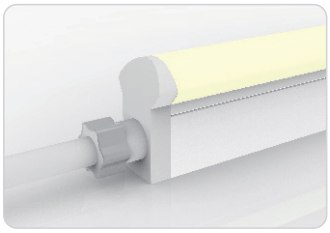


For full part number naming rules, please refer to the document on www.glls.com/support/documentation/

Connectors

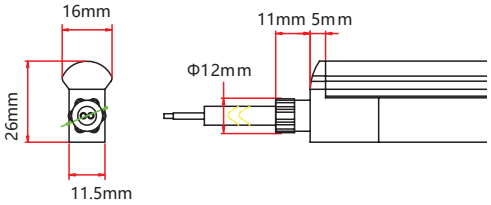
IP67: Rated for wet locations, not submersion.
Factory Assembly only.

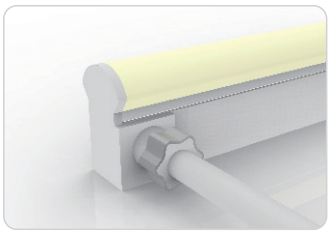
Seamless Connectors



Seamless End Exit

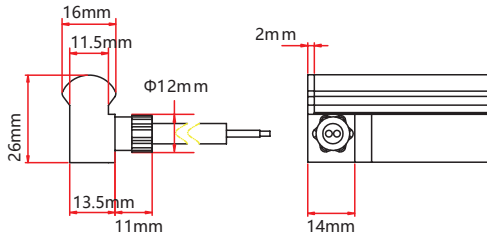
NA-11C-1-01-XW-SC-1-EN-XXX-P





Seamless Side Exit

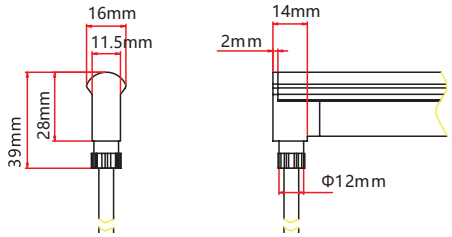
NA-11C-1-01-XW-SE-1-SR-XXX-P
NA-11C-1-01-XW-SE-2-SL-XXX-P

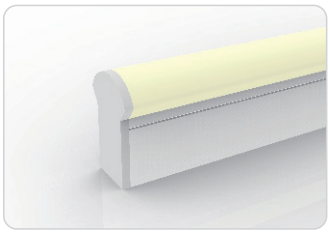




Seamless Bottom Exit

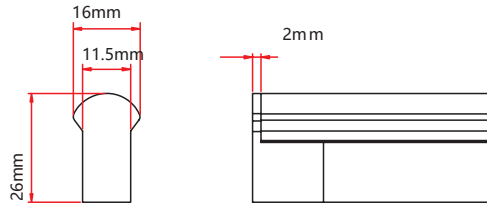
NA-11C-1-01-XW-SE-0-BO-XXX-P

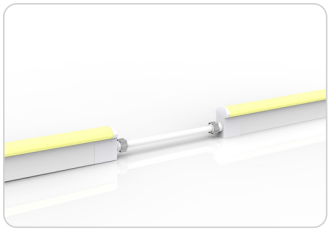




Seamless End Cap

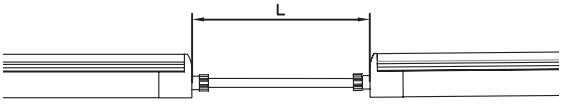
NA-11C-T-01-0W-SE-0-EC





Seamless Jumper

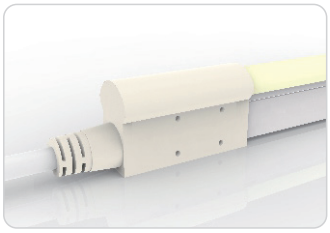
NA-11C-1-01-XW-SE-0-EJ-XXX-P



Connectors

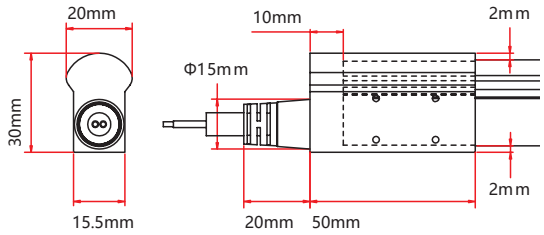
IP68: Submersible. Waiting on 3rd party certification from UL as of 18/04/12. Factory Assembly only.

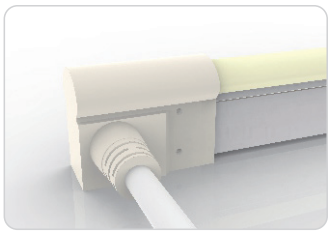
Submersible Seamless Connectors



Submersible End Exit

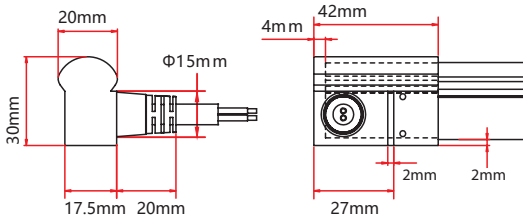
NA-11C-1-01-XW-SU-0-EN-XXX-P

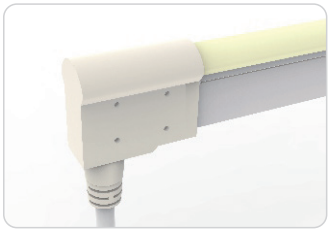




Submersible Side Exit

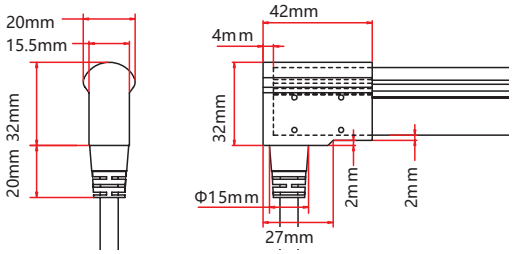
NA-11C-1-01-XW-SU-1-SR-XXX-P
NA-11C-1-01-XW-SU-2-SL-XXX-P

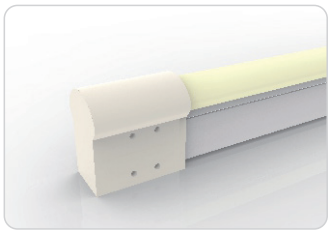




Submersible Bottom Exit

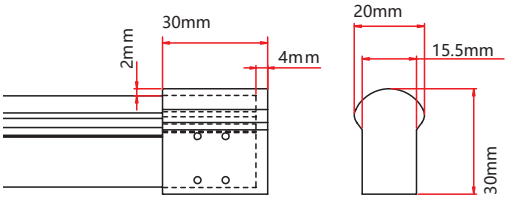
NA-11C-1-01-XW-SU-0-BO-XXX-P

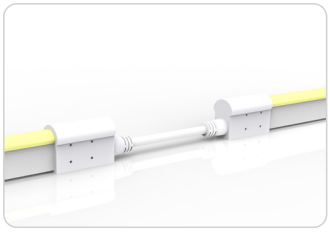




Submersible End Cap

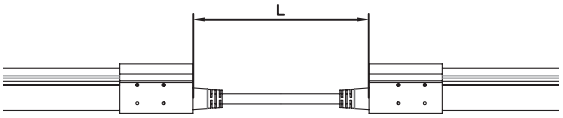
NA-11C-1-01-XW-SU-0-EC





Submersible Jumper

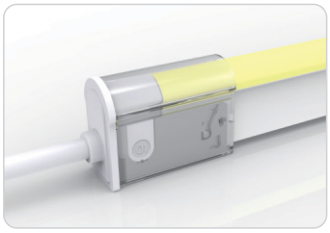
NA-11C-1-01-XW-SU-0-EJ-XXX-P



Connectors

IP67: Rated for outdoor use.
Factory Assembly or DIY.

Snap Connectors



Snap End Exit

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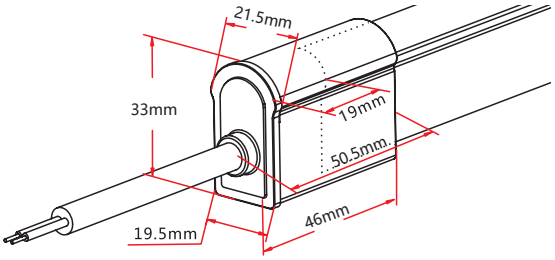
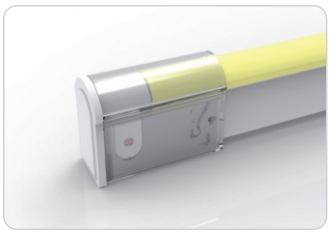
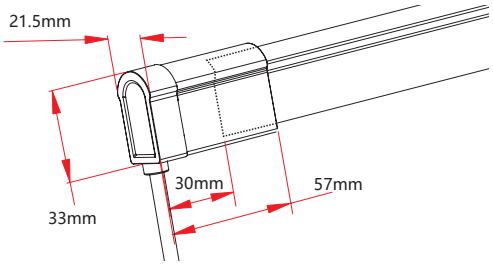
NA-11C-1-01-XW-SC-2-EN-XXX-P

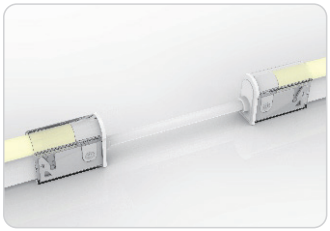




Snap End Cap

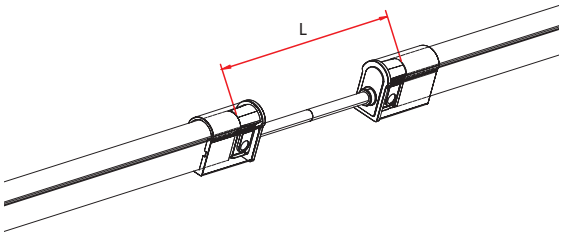
NA-11C-1-01-XW-SC-1-EC
NA-11C-1-01-XW-SC-2-EC





Snap Jumper

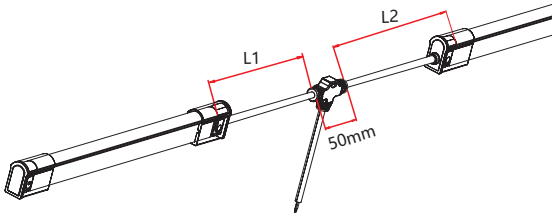
NA-11C-1-01-XW-SC-0-EJ-XXX-P





Snap Power T Feed

NA-11C-1-01-XW-SC-0-TF-XXX-P



Connectors

Barrel Connectors

IP20: Rated for indoor use only.
Factory Assembly only.

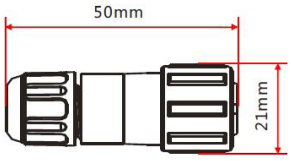


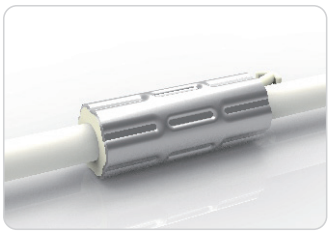
Barrel Connectors

NA-XX-BC-DC-CXX-F
NA-XX-BC-DC-CXX-M

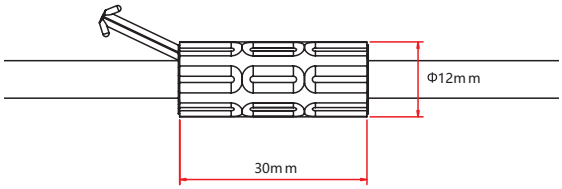
NA-XX-BN-XXA-CXX-F
NA-XX-BN-XXA-CXX-M

NA-XX-PL-XXA-CXX-F
NA-XX-PL-XXA-CXX-M





Anti-Wicking Ferrule





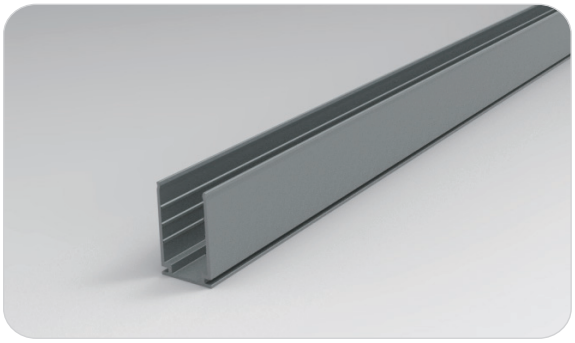
Anvil Cutter

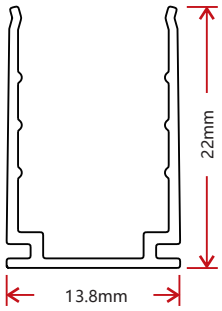
Optional accessory for on-site cutting.

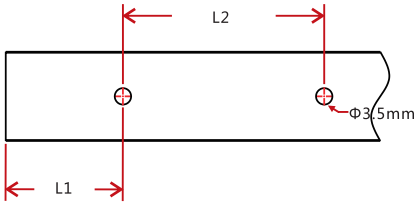
Factory order only

Mounting Hardware

Standard Anodized Aluminum Channel



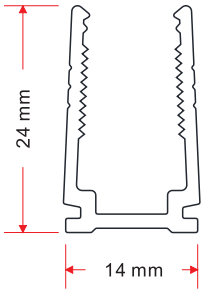


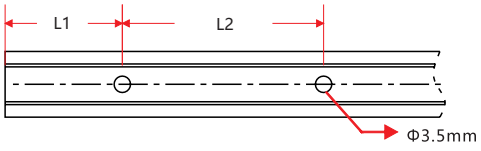


W x H	Standard Length	Part Number	L1	L2	Screw Hole Φ	Hole #
0.54 x 0.87in	1.38in (35mm)	CL-11-R-AL-3C5-SD	0.69in (17.5mm)	/	Φ0.14in (3.5mm)	1
(13.8 x 22mm)	19.69in (500mm)	CH-11-R-AL-0M5-SD	1.97in (50mm)	7.87in (200mm)	Φ0.14in (3.5mm)	3
	39.37in (1000mm)	CH-11-R-AL-01M-SD	3.94in (100mm)	7.87in (200mm)	Φ0.14in (3.5mm)	5
	78.74in (2000mm)	CH-11-R-AL-02M-SD	3.94in (100mm)	7.87in (200mm)	Φ0.14in (3.5mm)	10

Plastic Channel



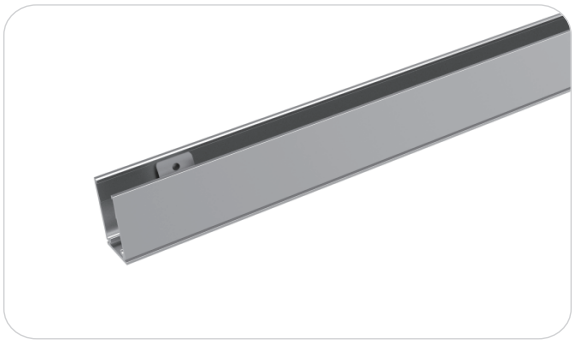


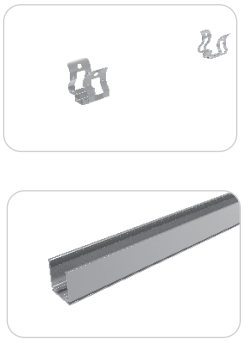


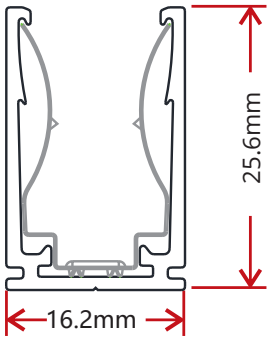
W x H	Standard Length	Part Number	L1	L2	Screw Hole Φ	Hole #
0.55 x 0.94in	19.69in (500mm)	CH-11-R-PL-0M5-SD	1.97in (50mm)	7.87in (200mm)	Φ0.14in (3.5mm)	3
(14 x 24mm)	39.37in (1000mm)	CH-11-R-PL-01M-SD	3.94in (100mm)	7.87in (200mm)	Φ0.14in (3.5mm)	5
	78.74in (2000mm)	CH-11-R-PL-02M-SD	3.94in (100mm)	7.87in (200mm)	Φ0.14in (3.5mm)	10

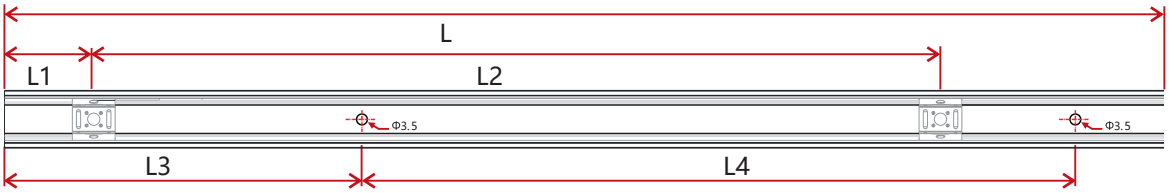
Mounting Hardware

Spring Clip Anodized Aluminum Channel



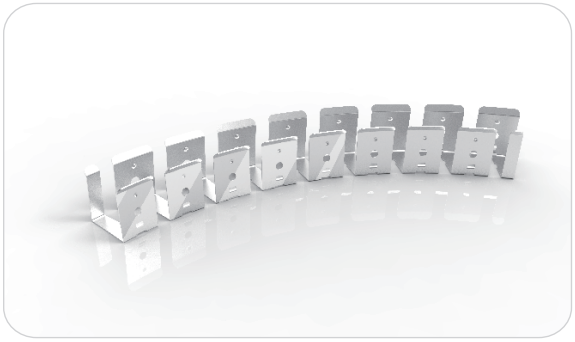


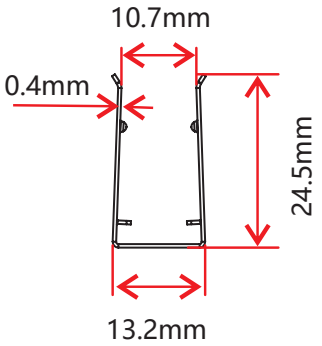


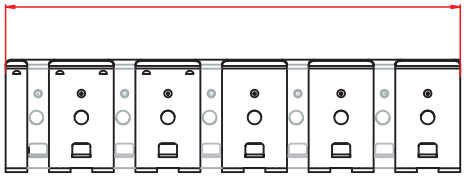


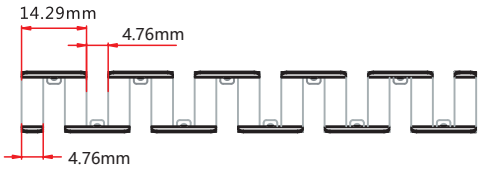
W x H	Standard Length	Part Number	L1	L2	L3	L4	Screw Hole Φ	Hole #	Clip #
0.64 x 1.01in	1.38in (35mm)	CL-11-R-AL-3C5-SP	0.69in (17.5mm)	/	0.2in (5mm)	0.98in (25mm)	Φ0.14in (3.5mm)	2	1
(16.2 x 25.6mm)	19.69in (500mm)	CH-11-R-AL-0M5-SP	0.98in (25mm)	8.86in (225mm)	1.97in (50mm)	7.87in (200mm)	Φ0.14in (3.5mm)	3	3
	39.37in (1000mm)	CH-11-R-AL-01M-SP	0.98in (25mm)	9.35in (237.5mm)	3.94in (100mm)	7.87in (200mm)	Φ0.14in (3.5mm)	5	5
	78.74in (2000mm)	CH-11-R-AL-02M-SP	0.98in (25mm)	9.6in (243.8mm)	3.94in (100mm)	7.87in (200mm)	Φ0.14in (3.5mm)	10	9

Stainless Steel Flexible Channel





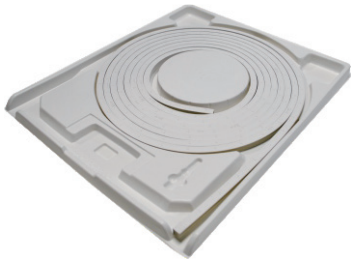




W x H	Standard Length	Part Number
0.52 x 0.97in	3.94in (100mm)	CH-11-F-SS-0M1-SD
(13.2 x 24.5mm)	11.81in (300mm)	CH-11-F-SS-0M3-SD
	19.69in (500mm)	CH-11-F-SS-0M5-SD
	35.43in (900mm)	CH-11-F-SS-0M9-SD

This profile can be mounted using screws in any gaps where the channel bends.

Packaging





White Box





Packing Box

Fixture Length	White Box Dimensions	Packing Box Dimensions	# Of White Boxes	Package Weight
196.85in (5m)	15.35x2.05x19.67in (39x5.2x50cm)	20.47x16.14x11.02in (52x41x28cm)	5	lbs (10.5kg)
393.7in (10m)	20.08x2.05x24.41in (51x5.2x62cm)	25.2x20.87x11.02in (64x53x28cm)	5	lbs (21kg)
393.7in (10m)	20.08x2.05x24.41in (51x5.2x62cm)	25.2x20.87x6.9in (64x53x17.5cm)	3	lbs (13kg)
787.4in (20m)	26.77x2.05x31.1in (68x5.2x79cm)	31.9x27.56x4.92in (81x70x12.5cm)	2	lbs (17kg)