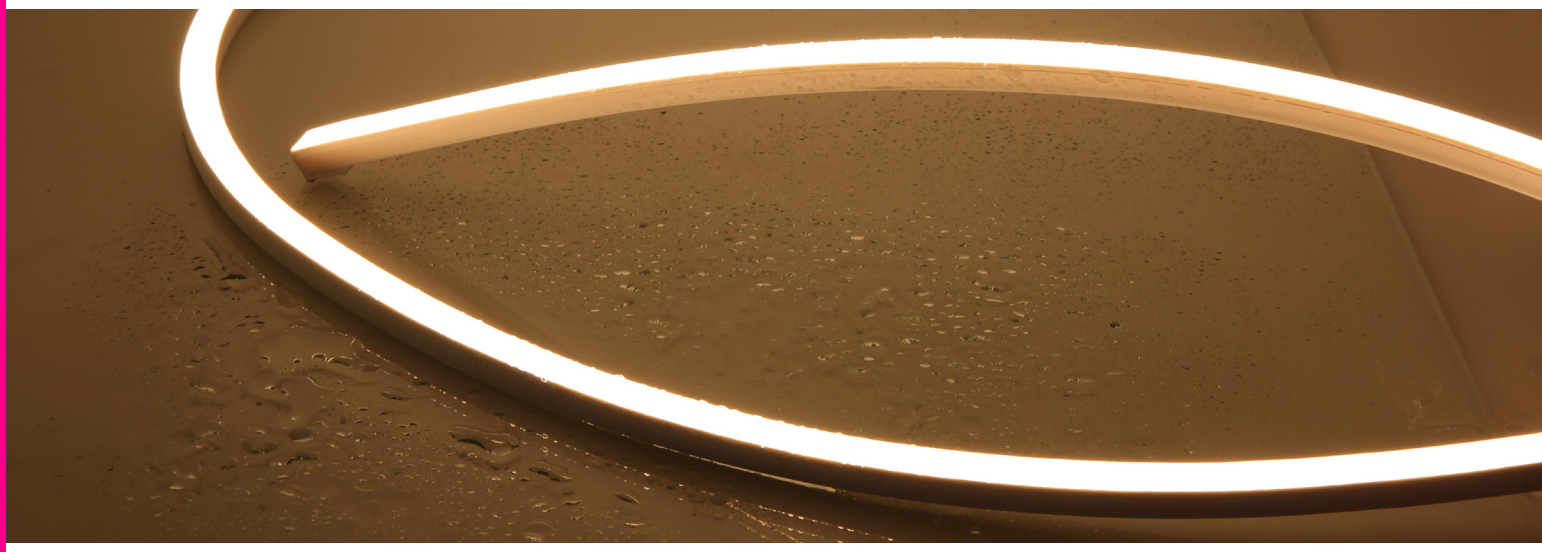
LEDneon·flex

Version 1.8



VIVID SILICONE 24V

WAVE MINI STATIC

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c UL us LISTED E347880 CE RoHS COMPLIANT INDOOR USE OUTDOOR USE IP68 DMX RDM DALI DIMMABLE

For More Information

Toll Free: 1 (888) 580-6366

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

Technical Specifications

Light Dimension 0.39 x 0.39in (10x10mm)

Output	**Red/Amber/Green/Blue/White**
LED Light	SMD LED Chip
Max Run Length*	
Single Feed	49.21ft (15m)
Double Feed	98.42ft (30m)
Light Surface	Square profile 160°
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	1.37W/ft (4.5W/m)
Physical	
LED Count	44 LEDs/ft (144 LEDs/m)
LED Spacing	0.27in (6.9mm)
Cutting Unit Length	3.28in (83.3mm) (12 LEDs)
Thermal Management	Free air convection
Fixture Connections	End, side & Bottom lead wires
Minimum Bend Diameter	3.94in (100mm) (Top Bending or Side Bending)
Temperature Ranges	
Installation	-40°F to 122°F (-40°C to 50°C)
Operating	-40°F to 131°F (-40°C to 55°C)
Humidity	0-95% non condensing
Dependability	
Warranty	5 Year Limited 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	IP67 with appropriately rated accessories

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

Technical Specifications

Available Colors

Color	CCT Wavelength
Red	618-624nm
Green	522-528nm
Blue	468-474nm
Amber	588-594nm
2200K	2238 ± 102K
2700K	2725 ± 145K
3000K	3045 ± 175K
3500K	3045 ± 175K
4000K	3985 ± 275K
5700K	5669 ± 355K

Lumen Count

Color	Per Foot	Per Meter	Power
Red	>24.39lm	>80lm	1.37W/ft (4.5W/m)
Green	>67.07lm	>220lm	1.37W/ft (4.5W/m)
Blue	>15.24lm	>50lm	1.37W/ft (4.5W/m)
Amber	>24.39lm	>80lm	1.37W/ft (4.5W/m)
2200K	>64lm	>210lm	1.37W/ft (4.5W/m)
2700K	>64lm	>210lm	1.37W/ft (4.5W/m)
3000K	>64lm	>210lm	1.37W/ft (4.5W/m)
3500K	>64lm	>210lm	1.37W/ft (4.5W/m)
4000K	>64lm	>210lm	1.37W/ft (4.5W/m)
5700K	>64lm	>210lm	1.37W/ft (4.5W/m)

*Color Jackets:

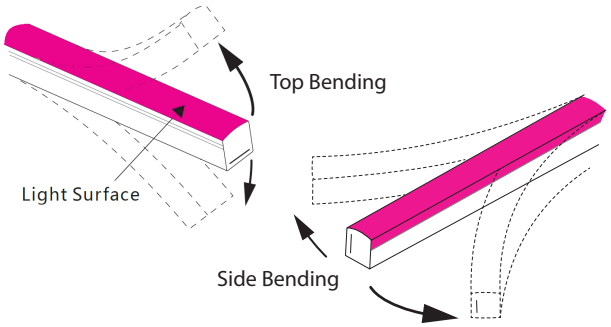
For standard or custom color jacket options, contact your Account Manager. Min. order quantity of 656ft (200m).

Physical Specifications

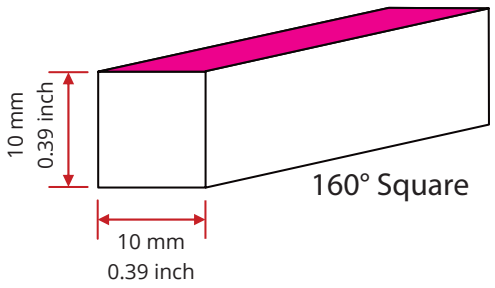


Beam Angle | Bending Diameter | Flame Resistant | UV Resistant | Solvents Resistant | Saltwater Resistant | IP67 Protection | IK08 Protection | 5 Year Warranty

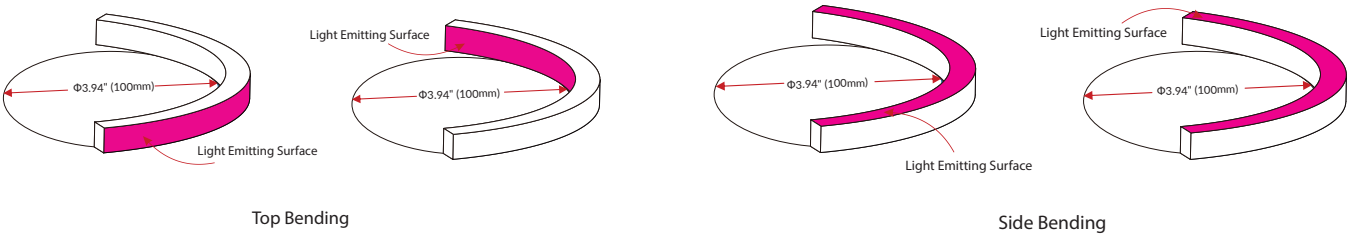
Bending Direction



Light Profile



Minimum Bending Diameter



Top Bending

Side Bending

Part Number Naming Convention

Fixtures

SF-10F-X-01-2W-E-XXX-24DC

- LED Color (3 digits)
- Bending Direction (1 Digit)

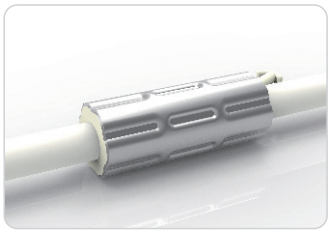
Lead Connector

FA-10F-X-01-2W-XX-X-XX-XXX-P

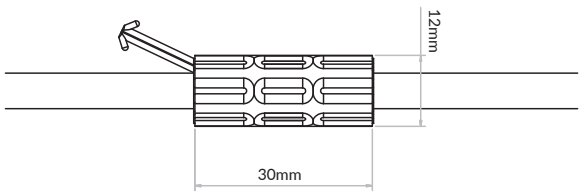
- Length (3 digits)
- Exit Type (2 Digits)
- For Fixture End (1 Digit)
- Connector Type (2 Digits)
- Bending Direction (1 Digit)

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

Lead Wire Accessories



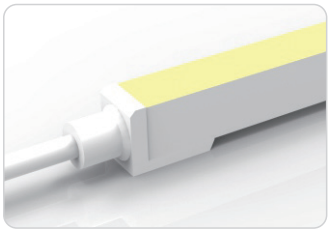
Anti-Wicking Ferrule



Connectors

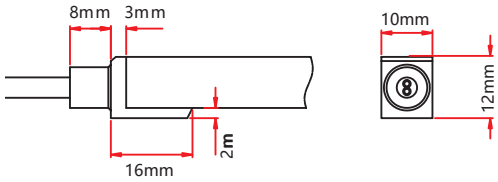
IP67: Rated for wet locations, not submersion.
Factory Assembly only.

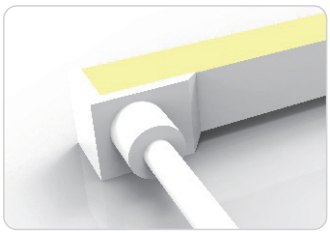
Seamless Connectors



Seamless End Exit

FA-10F-0-01-2W-SE-0-EN-XXX-P
FA-10F-1-01-2W-SE-0-EN-XXX-P

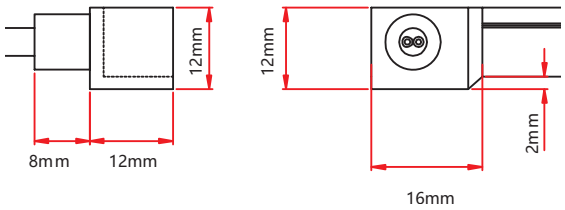


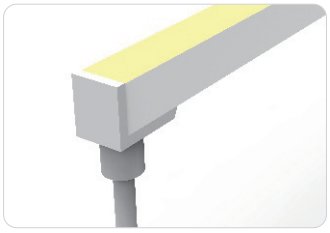


Seamless Side Exit

FA-10F-0-01-2W-SE-1-SL-XXX-P
FA-10F-0-01-2W-SE-2-SL-XXX-P
FA-10F-0-01-2W-SE-1-SR-XXX-P
FA-10F-0-01-2W-SE-2-SR-XXX-P

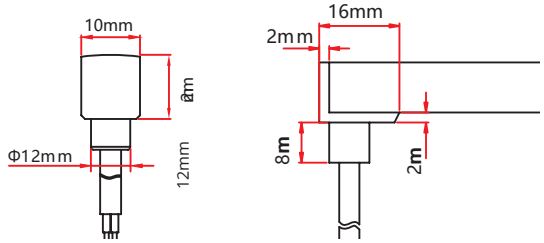
FA-10F-1-01-2W-SE-1-SL-XXX-P
FA-10F-1-01-2W-SE-2-SL-XXX-P
FA-10F-1-01-2W-SE-1-SR-XXX-P
FA-10F-1-01-2W-SE-2-SR-XXX-P

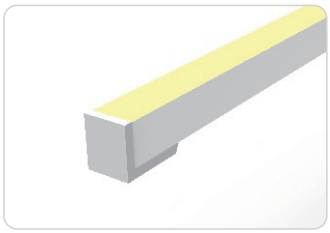




Seamless Bottom Exit

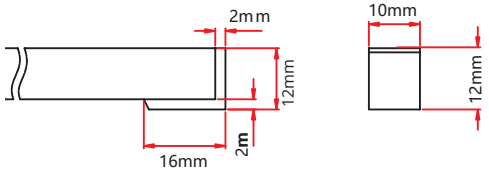
FA-10F-0-01-2W-SE-0-BO-XXX-P
FA-10F-1-01-2W-SE-0-BO-XXX-P

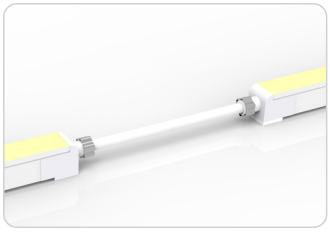




Seamless End Cap

FA-10F-1-01-0W-SE-1-EC-000-P
FA-10F-1-01-0W-SE-2-EC-000-P

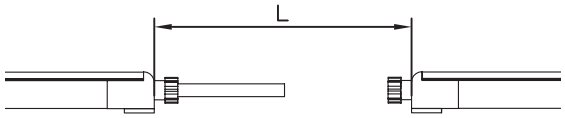




Seamless Jumper

FA-10F-0-01-2W-SE-0-EJ-XXX-P

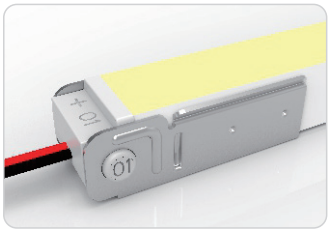
FA-10F-1-01-2W-SE-0-EJ-XXX-P



Connectors

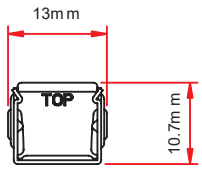
IP20: Rated for indoor use only.
Factory Assembly or DIY.

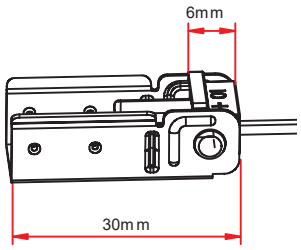
Swivel Connectors

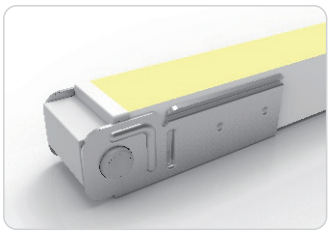


Swivel End Exit

NA-10F-0-01-2W-SV-2-EN-XXX-P
NA-10F-1-01-2W-SV-2-EN-XXX-P

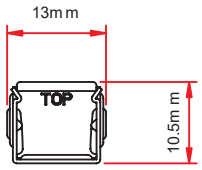


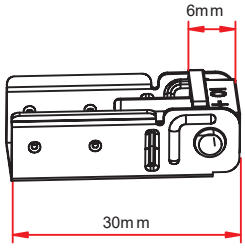




Swivel End Cap

NA-10F-0-01-0W-SV-1-EC-000-P
NA-10F-0-01-0W-SV-2-EC-000-P







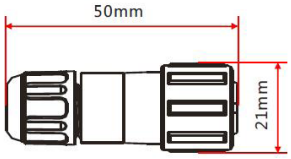
Male & Female Connectors

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

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

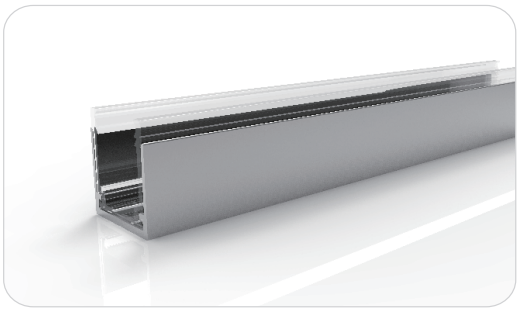
NA-XX-PL-XXA-CXX-F
NA-XX-PL-XXA-CXX-M

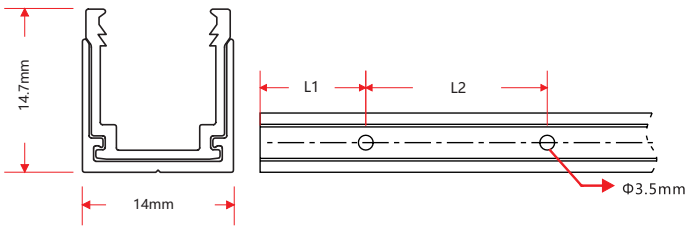
IP68: Rated for wet locations, not submersion.
Factory Assembly or DIY.



Mounting Hardware

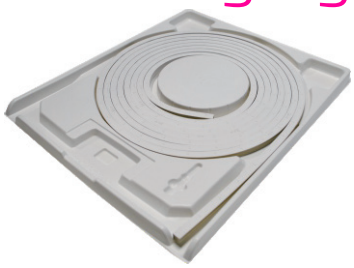
Plastic & Aluminum Channel





W x H	Standard Length	Part Number	L1	L2	Screw Hole Φ	Hole
0.55 x 0.59in (14 x 14.7mm)	1.38in (35mm)	CL-10-R-AP-3C5-SD	0.69in (17.5mm)	/	Φ0.14in (3.5mm)	1
	19.69in (500mm)	CH-10-R-AP-0M5-SD	1.97in (50mm)	7.87in (200mm)	Φ0.14in (3.5mm)	3
	39.37in (1000mm)	CH-10-R-AP-01M-SD	3.94in (100mm)	7.87in (200mm)	Φ0.14in (3.5mm)	5
	78.74in (2000mm)	CH-10-R-AP-02M-SD	3.94in (100mm)	7.87in (200mm)	Φ0.14in (3.5mm)	10

Packaging





White Box



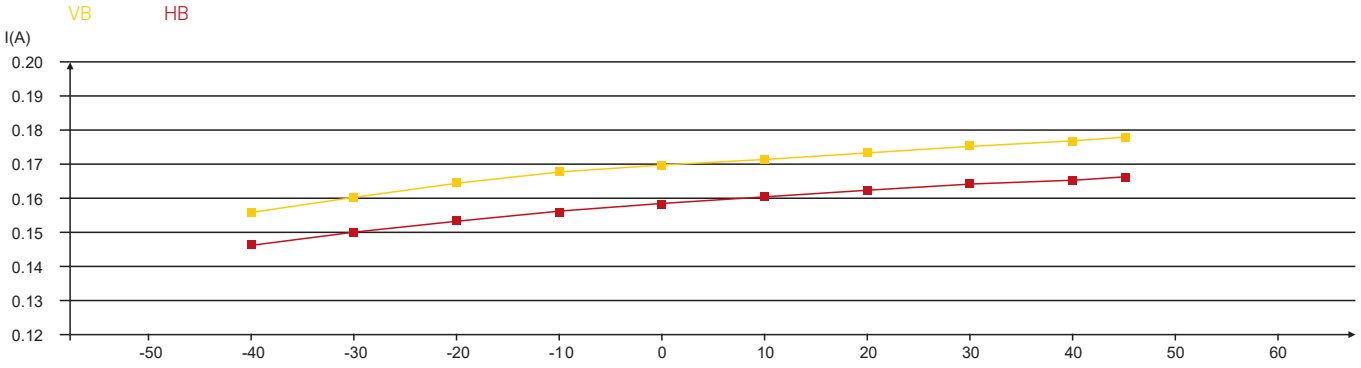


Packing Box

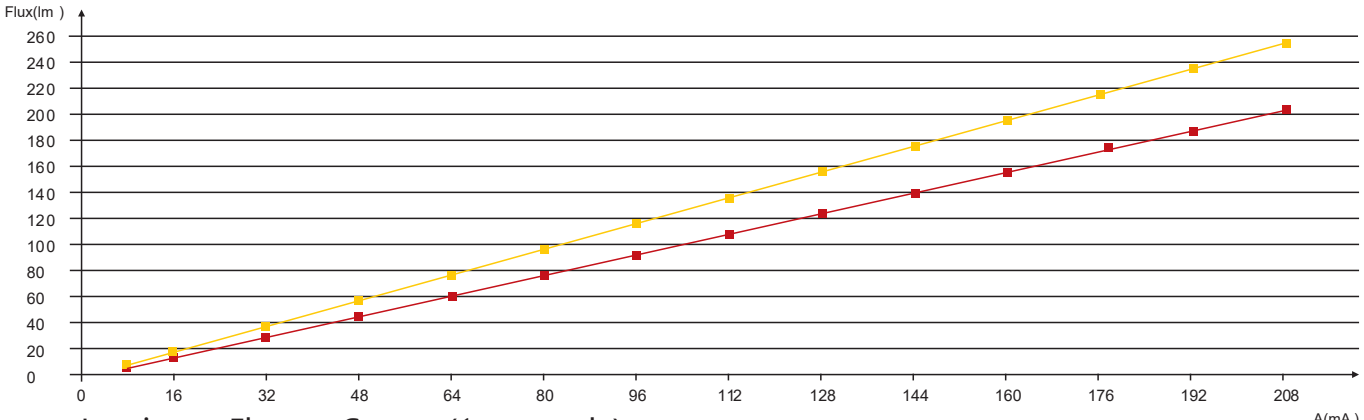
Fixture Length	White Box Dimensions	Packing Box Dimensions	# Of White Boxes	Package Weight
32.81ft (10m)	18.11x1.38x22.05in (46x3.5x56cm)	22.84x19.29x2.09in (58x49x5.3cm)	1	4.41lbs (2kg)
32.81ft (10m)	18.11x1.38x22.05in (46x3.5x56cm)	22.84x18.9x8.27in (58x48x21cm)	5	17.64lbs (8kg)
65.62ft (20m)	22.64x1.38x26.77in (57.5x3.5x68cm)	27.56x24.41x2.09in (70x60.5x5.3cm)	1	8.82lbs (4kg)
65.62ft (20m)	22.64x1.38x26.77in (57.5x3.5x68cm)	27.56x27.56x8.27in (70x59.5x21cm)	5	35.27lbs (16kg)

Testing

Charts



Current vs. Working Temperature(1m sample)



Luminous Flux vs. Current(1m sample)

Testing

Certifications

	Testing Organization	Certificate Serial N°	Report Reference
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

Durability Testing

	Bending Test	Manufacturer-defined, 500 cycles
	Tensile Test	Manufacturer-defined, > the weight of light in max. connection length double feed
	Twist Test	Manufacturer-defined, >200 cycles

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

