FLEXIBLE LED NEON STRIP

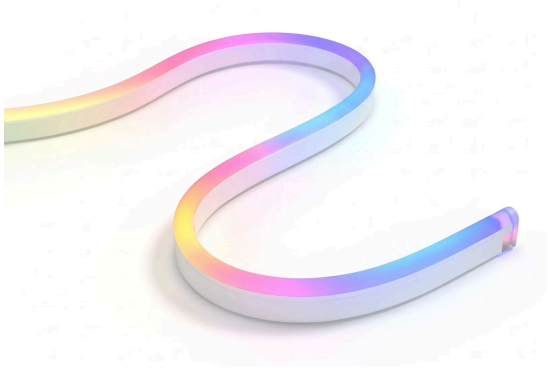
LNF-SIL-F1229 Series

Product Characteristics

- Food-grade high-transmittance silicone, 270° dome illumination;
- Profile W11.5 × H28.0mm, horizontal bend (min. Ø80mm);
- UV, saltwater, solvent, dirt resistant & flame retardant;
- IP68 waterproof protection (wet location submersible < 2m);
- Static White (2200K–6500K), Single Colors & DMX512 RGBW;
- 50,000h lifespan (L70 @ 50°C), PWM CV, DMX512 & SPI control;

Structure

Housing Material	Food-Grade Silicone
Diffuser Lens	Dome Opal Silicone Diffuser
Ingress Protection	IP68 (Submersible < 2m)
Bending Direction	Horizontal Bending
Min. Bending Diameter	80mm (3.14in)
Dimensions	W11.5 × H28.0mm
Operating Temp.	-55°C to +40°C
Installation Temp.	0°C to +50°C
Light Life	50,000 Hours (L70 @ 50°C)



Electronic & Control

Input Voltage	24V DC
Power Consumption	12W/m, 13W/m, 15W/m, 18W/m, 23W/m
Control Mode	PWM CV, DMX512, SPI, DALI, 0/1-10V
Beam Angle	270°
CRI (White)	>80, >90
Color Consistency	SDCM < 3 (3-Step MacAdam), One Bin
Lumen Maintenance	70,000h L70 @ 25°C / 50,000h L70 @ 50°C
Max Run Length	Single Feed 8~10m / Double Feed 16~20m
Working Environment	Indoor / Outdoor Architectural / Underwater <2m

Beam Angle, Rating & Control



270°



IP68



24VDC

Control



PWM



DMX



SPI



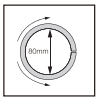
DALI



0-10V



Bending



Min. Ø80mm



UV Resistant



WEEE

Model Configuration

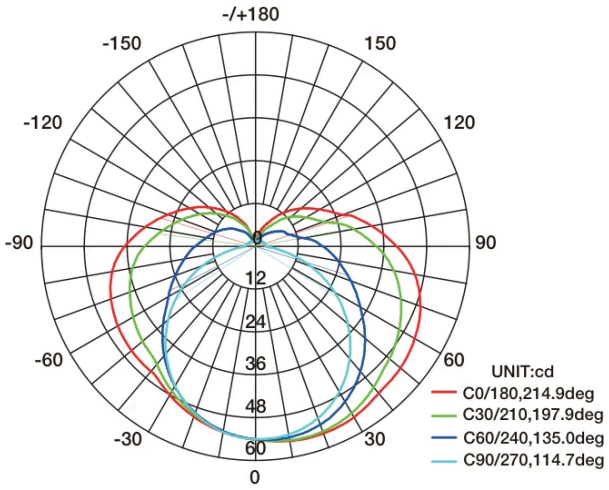
Model No.	LED Type & Qty	Power	Control	Color / CCT	Flux / Max Run
LNF-SIL-F1229-24V-5050-60-W	SMD 5050 (60/m)	12W/m	PWM CV	White / Single	418 lm/m (10/20m)
LNF-SIL-F1229-24V-5050-72-U2-W	SMD 5050 (72/m)	13W/m	PWM CV	White / Single	441 lm/m (10/20m)
LNF-SIL-F1229-24V-5050-84-W	SMD 5050 (84/m)	15W/m	PWM CV	White / Single	611 lm/m (8/16m)
LNF-SIL-F1229-24V-5050-56-DMX4-RGBW	SMD 5050 (56/m)	15W/m	DMX (8px/m)	RGBW	330 lm/m (10/20m)
LNF-SIL-F1229-24V-5050-70-DMX4-RGBW	SMD 5050 (70/m)	18W/m	DMX (10px/m)	RGBW	319 lm/m (8/16m)
LNF-SIL-F1229-24V-5050-84-DMX4-RGBW	SMD 5050 (84/m)	23W/m	DMX (12px/m)	RGBW	290 lm/m (8/16m)

Min. Cutting Unit: 60 LEDs=100mm; 72 LEDs=27.7mm; 84 LEDs=83.3mm; 56 LEDs=125mm; 70 LEDs=100mm. DMX IC: UCS512H4L (16-bit).

LNF-SIL-F1229

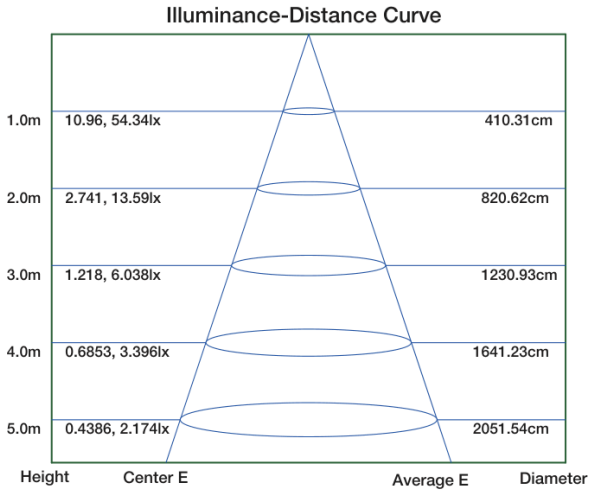
Flexible Led Neon Strip

Photometric Curves & Light Distribution



AVERAGE BEAM ANGLE(50%):165.6 DEG

Luminous Intensity Distribution (270° Beam Angle)



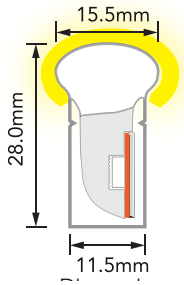
Beam Angle:128.03 DEG

Illuminance Distance Cone Curve

Optional Color & Photometric Output

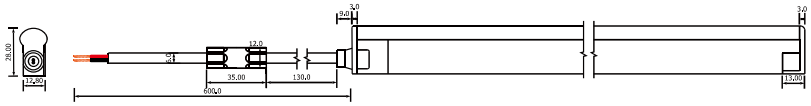
Color / CCT	CCT / Wavelength	Output (5050 60LED 12W)	Output (DMX4 RGBW 15W)
Warm White 2200K	2238 ± 102K	338 lm/m	
Warm White 2700K	2725 ± 145K	419 lm/m	
Natural White 3000K	3045 ± 175K	441 lm/m	
Commercial White 4000K	3985 ± 275K	478 lm/m	110 lm/m (W ch.)
Daylight White 5000K	5209 ± 283K	433 lm/m	
Cool White 6500K	6532 ± 510K	437 lm/m	
Green	520 ~ 530 nm	303 lm/m	97 lm/m
Blue	455 ~ 465 nm	30 lm/m	18 lm/m
Red / Pink	610 ~ 630 nm	112 lm/m (Pink)	31 lm/m (Red)
RGBW Full On	2700~5700K		245 lm/m

Dimension Drawing (Unit: mm)



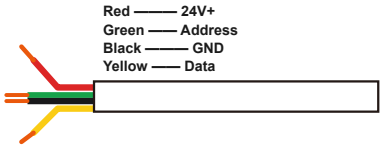
Cross-Section (W11.5 × H28.0mm)

Product Dimensions



Plan View & Min. Cutting Unit Dimensions

DMX512 Wire Color & Pin Definition



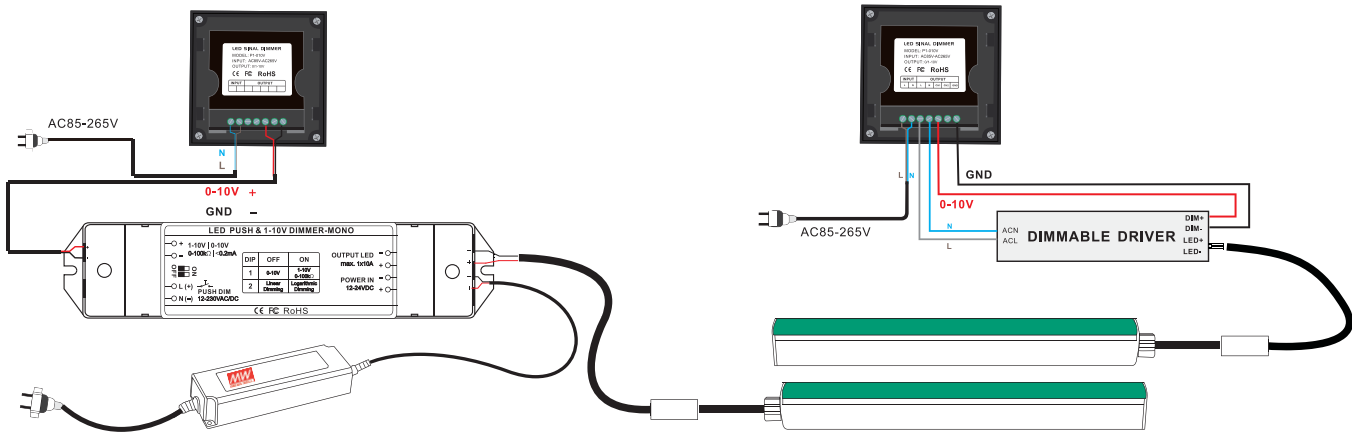
Wire#	Description	Color
1	24V+	Red
2	Address	Green
3	GND	Black
4	Data	Yellow

LNF-SIL-F1229

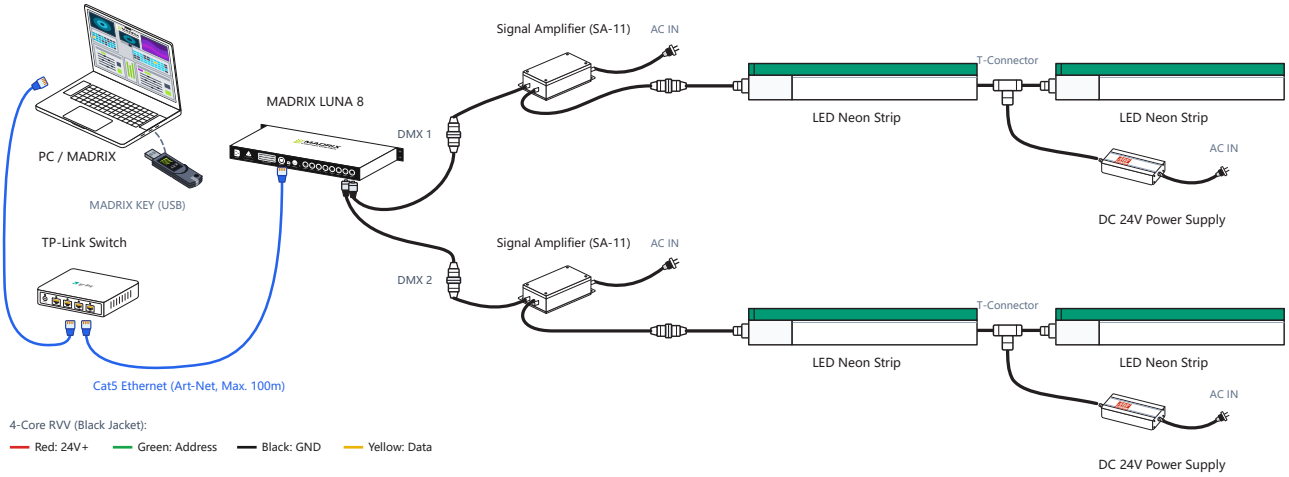
Flexible Led Neon Strip

Wiring & Control System Topology

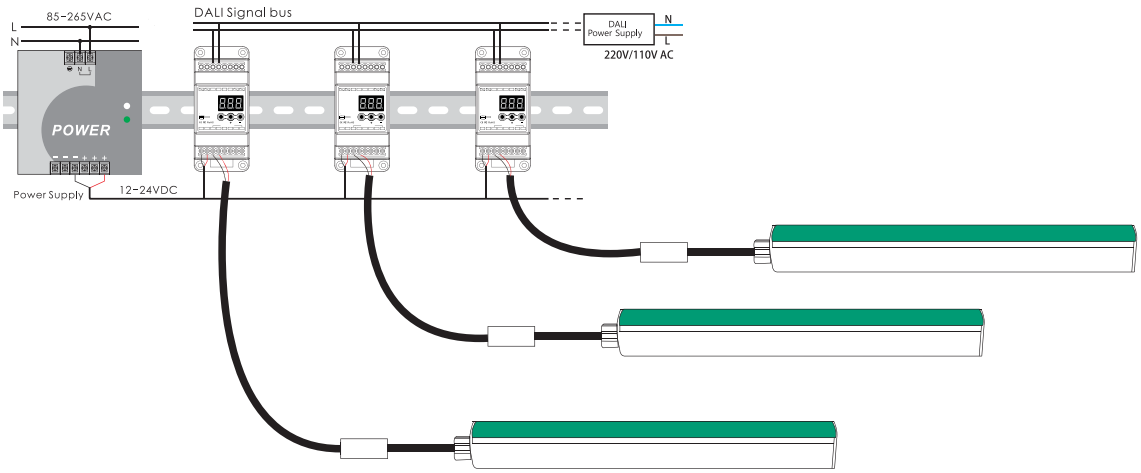
0-10V dimming system



DMX512 Control System (MADRIX)



DALI dimming system



Wiring Topology: 0-10V, DMX512 & DALI Dimming Control Systems (DC 24V)

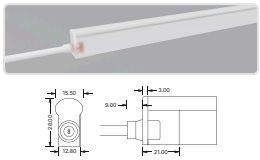
* Maximum continuous run length: Single feed 8~10m / Double feed 16~20m. Power supply must provide 20% safety margin.

LNF-SIL-F1229

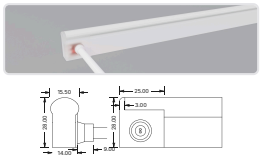
Flexible Led Neon Strip

Mounting Channels & Installation Accessories

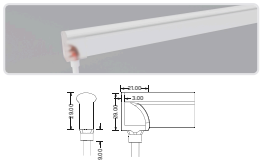
- A. Power Feed & Ingress Sealing Connectors



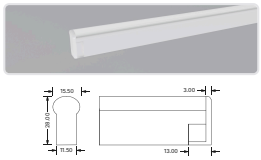
Direct Entry Connector
Use for: F1220, F1229
Protection: IP68
Type: Mold Injection



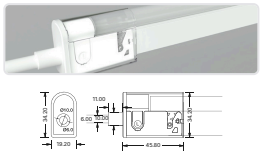
Side Entry Connector
Use for: F1220, F1229
Protection: IP68
Type: Mold Injection



Bottom Entry Connector
Use for: F1220, F1229
Protection: IP68
Type: Mold Injection

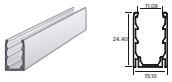


End Cap
Use for: F1220, F1229
Protection: IP68
Type: Mold Injection

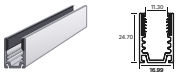


DIY Snap Connector
Use for: F1220, F1229
Protection: IP67
Type: DIY Assemble

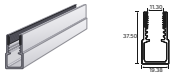
- B. Rigid Aluminum & Concealed Mounting Profiles



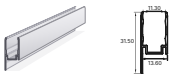
ALC15S01
Use for: F1220, F1229
Material: Aluminum alloy
Optional Color: AS/AB/PW
Type: Standard



ALC15S04
Use for: F1220, F1229
Material: Aluminum alloy + PVC
Color: Silver + milky white
Type: Anti-drop



ALC15H05
Use for: F1220, F1229
Material: Aluminum alloy + PVC
Color: Silver + milky white
Type: Cable hiding & anti-drop



ALC15V01
Use for: F1220, F1229
Material: Aluminum alloy
Optional Color: AS/AB/PW



PC15/21S01-T
Use for: F1220, F1229
Material: Plastic
Color: Transparent
Type: Standard



ALC15S05
Use for: F1220, F1229
Material: Aluminum alloy
Optional Color: AS/AB/PW
Type: Standard (Ceiling)

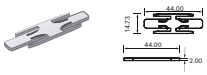
- C. Flexible Curvature Profiles & Stainless Hardware



SSC15FLX
Use for: F1220, F1229
Material: Stainless steel
Surface: Polished
Type: Flexible



ALC15S01FLX
Use for: F1220, F1229
Material: Aluminum alloy
Optional Color: AS/AB/PW
Type: Flexible



ALC15S04-SP
Use for: F1220, F1229
Material: Stainless Steel
Application: Channel splice

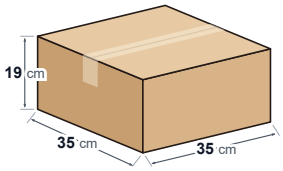


SSC15S01-05
Use for: F1220, F1229
Material: Stainless steel
Surface: Natural color
Type: 316 stainless steel



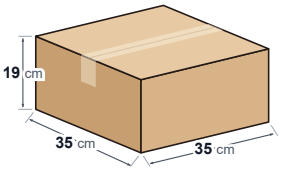
SSC15S02-100
Use for: F1220, F1229
Material: Stainless steel
Surface: Natural color
Type: 316 stainless steel

Packaging Details



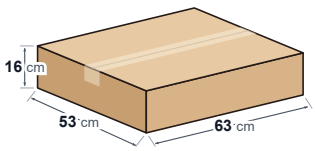
Standard (Paper Reel)

Model	**LNF-SIL-F1229**
Pack Qty	**20 m / carton (Reel)**
Dimensions	**35 × 35 × 19 cm**
Weight	**N.W. 10.4 kg / G.W. 12.0 kg**



Standard (Roll-Up)

Model	**LNF-SIL-F1229**
Pack Qty	**4.5 m × 9 rolls / carton**
Dimensions	**35 × 35 × 19 cm**
Weight	**N.W. 21.0 kg / G.W. 22.6 kg**



Custom (Plastic Plate)

Model	**LNF-SIL-F1229**
Pack Qty	**10 m × 3 plates / carton**
Dimensions	**63 × 53 × 16 cm**
Weight	**G.W. 18.6 kg**

Caution:

1. *Do not plug them into power when the product is still in package;*
2. *Don't use anything to cover the fixture during application;*
3. *Don't use this product in close environment;*
4. *If this product appears to be damaged, do not attempt any repair, please contact your dealer.*

Warning:

* *Pls twist the connector well in order to avoid water going side and making fixture failure.*

Note: The above instruction are subject to update or improved without notice. Pls turn to our staff for further details! Thanks for your long term support!

Do not install the lamp in the lightning activity area.