Beamever

Designer's Custom Playground

LINIO NEON 1617 POOL PIXEL RGB

Underwater · Vertical Bending · Horizontal Bending

Features

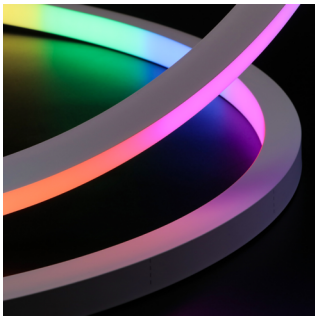
- Addressable RGB lighting for underwater use with dynamic effects
- IP68 & IP69 rated, ideal for underwater and washdown use
- 3 years warranty

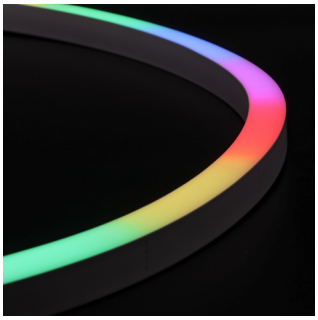
Date | Fixture type

Project name | Project phase

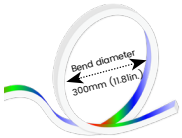
Applications

Pools, Fountains, Parkwaters, Ponds, Waterfeatures, etc.

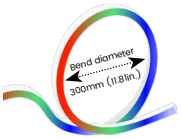




Bending Directions & Diameters

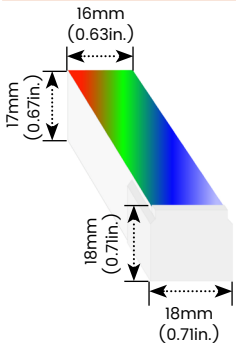


TV - Top View
(Vertical Bending)



SV - Side View
(Horizontal Bending)

Dimensions





Order Code

Model	Environment	Voltage	CCT	Power	End Cap
LN1617TVP **LN1617SVP**	**W9**-Wet (IP69)	**24V**-DC24V	**PRGB**-Pixel RGB	**150**-15W/M	**FT** Flush Translucent **FO** Flush Opaque

Assembly Builder

Left Feed Entry	
F Front	**OW** Open wire 300mm (11.81in.)
B Bottom	**OA** Open Wire with Anti-Wicking Ferrule
S Side	**MC** Male connector with 300mm (11.81in.) cable
C Closed	**FC** Female connector with 300mm (11.81in.)cable
	NA Only for Closed Feed Entry

Assembly Builder

Right Feed Entry			Length	
F	Front	**OW** Open wire 300mm (11.81in.)	**Max. nominal**	5m (16.4ft)
B	Bottom	**OA** Open Wire with Anti-Wicking Ferrule	**Increment**	83mm(3.28in.)
S	Side	**MC** Male connector with 300mm (11.81in.) cable		
C	Closed	**FC** Female connector with 300mm (11.81in.)cable		
		NA Only for Closed Feed Entry		

*We will list the nearest actual manufacturing length on the quotation, based on your requested length.

Mounting Order Code

Product Code
Please select on the Mounting Options page

LINIO NEON 1617 POOL PIXEL RGB

Underwater · Vertical Bending · Horizontal Bending

Lumen Output (lm/m)

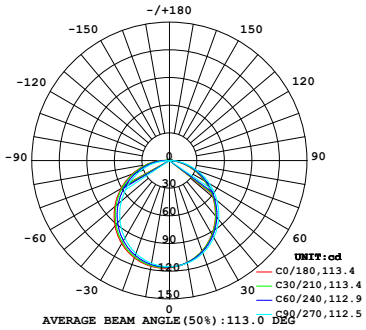
CCT	Vertical Bending	Horizontal Bending
	15W/M	15W/M
R	80	58
G	224	168
B	50	38
PRGB	347	257
Max. Run Length	5m	5m

Techinical Details

Parameter	Vertical Bending	Horizontal Bending
Efficacy	23.1lm/W @RGB 15W	17.1lm/W @RGBW 15W
IK Rating	IK10 (with aluminium profile)	IK10 (with aluminium profile)
Average Life (L80B10)	>38,000 hours	>38,000 hours
IC Model	UCS 512CL	UCS 512CL
Pixel Size	83mm/pixel(3.3in./pixel)	83mm/pixel(3.3in./pixel)
Storage Temperature	-40°C~ 65°C	-40°C~ 65°C
Operating Temperature	-40°C~ 65°C	-40°C~ 65°C

Photometry

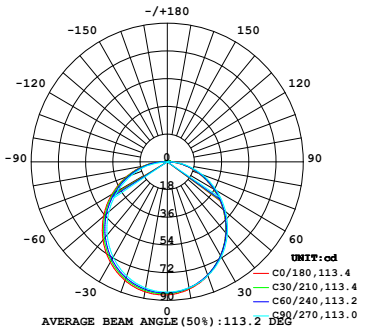
LN1617TVP-W9-24V-PRGB-150-FT-F-OW-F-OW
LINIO NEON 1617 TV POOL PIXEL RGB, Vertical bend, PRGB 15W/M



Zonal Lumen Summary

Zone	Lumen	% Fixture
0-30	89.4	25.7%
0-40	146.4	42.2%
0-60	259.5	74.7%
0-90	339.1	97.6%
0-180	347.4	100.0%

LN1617SVP-W9-24V-PRGB-150-FT-F-OW-F-OW
LINIO NEON 1617 SV POOL PIXEL RGB, Horizontal bend, PRGB, 15W/M



Zonal Lumen Summary

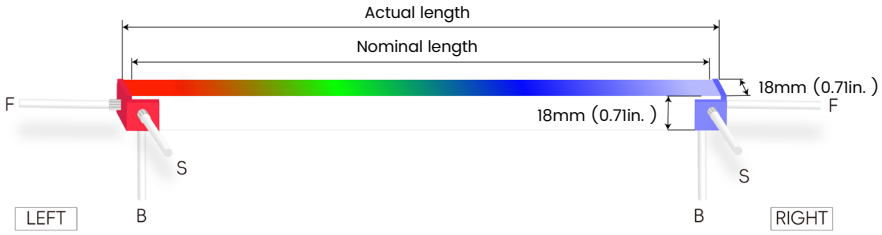
Zone	Lumen	% Fixture
0-30	66.0	25.7%
0-40	108.1	42.1%
0-60	191.7	74.7%
0-90	250.8	97.7%
0-180	256.7	100.0%

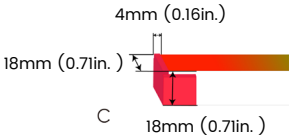
LINIO NEON 1617 POOL PIXEL RGB

Underwater · Vertical Bending · Horizontal Bending

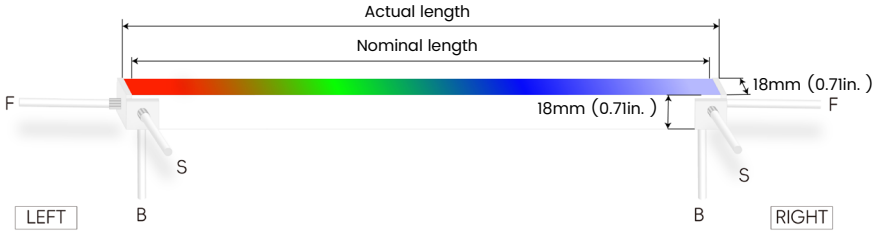
Feed Entry / End Cap Options

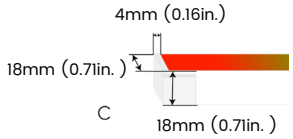
FT: Flush Translucent – IP69, factory-made only



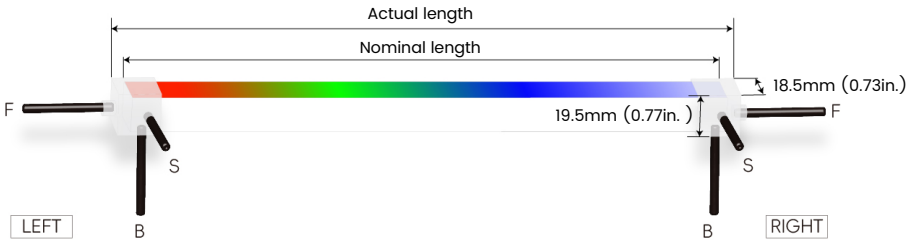


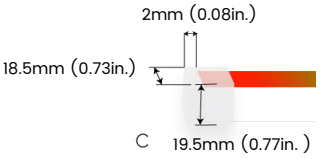
FO: Flush Opaque – IP69, factory-made only



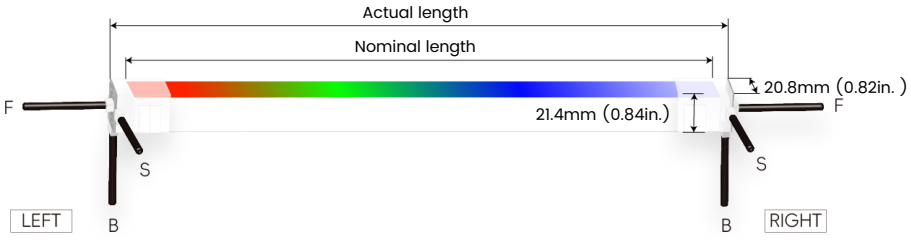


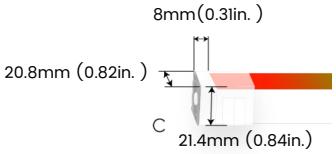
Silicone end cap – IP67, for field cuttable only, not for underwater use





Mechanical end cap with screws – IP67, for field cuttable only, not for underwater use

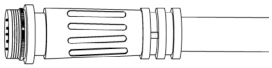




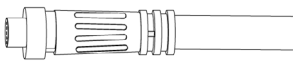
Connector Wire Options



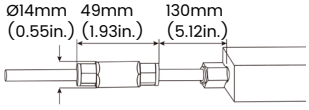
OW: Open wire, **Dry only**
Standard 300mm (11.81in.),20 AWG,
wire length customizable



MC: Male connector, **Wet**
Standard 300mm (11.81in.), 20 AWG



FC: Female connector, **Wet**
Standard 300mm (11.81in.), 20 AWG

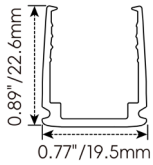


OA: Open Wire with **Anti-Wicking Ferrule, Wet**
Standard 300mm (11.81in.),20 AWG,
Protects against water ingress through the power cable

LINIO NEON 1617 POOL PIXEL RGB

Underwater · Vertical Bending · Horizontal Bending

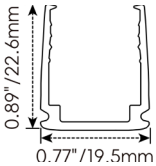
Mounting Options, for underwater use





NF1617-PC

Name	PC channel
Material	Polycarbonate
Standard Length	1m (3.28ft)

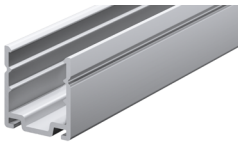
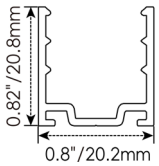






NF1617-BPC

Name	Bendable surface channel
Material	Aluminum
Standard Length	1m (3.28ft)
Min. Bending Diameter	300mm(11.81in.)

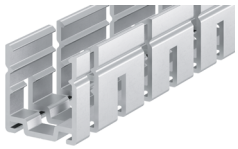
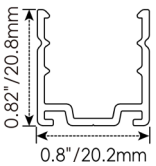
Mounting Options, not for underwater use



NF1617-SC

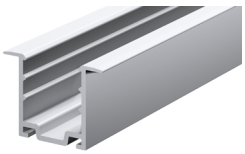
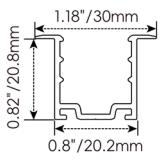
Name	Straight surface channel
Material	Aluminum
Standard Length	1m (3.28ft)




NF1617-BC

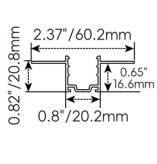
Name	Bendable surface channel
Material	Aluminum
Standard Length	1m (3.28ft)
Min. Bending Diameter	600mm(23.6in.)



NF1617-RC

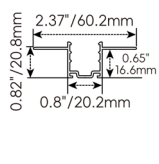
Name	Straight recessed channel
Material	Aluminum
Standard Length	1m (3.28ft)



NF1617-MC

Name	Mud-in channel
Material	Aluminum
Standard Length	1m (3.28ft)



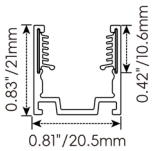

NF1617-BMC

Name	Bendable mud-in channel
Material	Aluminum
Standard Length	1m (3.28ft)
Min. Top Bending Diameter	600mm(23.6in.)
Min. Side Bending Diameter	1600mm(63in.)

LINIO NEON 1617 POOL PIXEL RGB

Underwater · Vertical Bending · Horizontal Bending

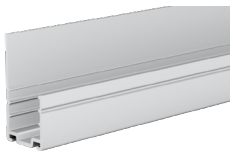
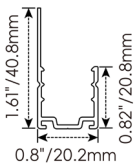
Mounting Options, not for underwater use



NF1617-SCS

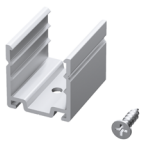
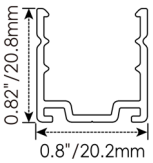
Name	Straight surface channel
Material	Aluminum with silicone groove
Standard Length	1m (3.28ft)



NF1617-LBC

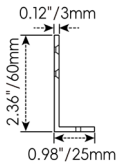
Name	Light-block channel
Material	Aluminum
Standard Length	1m (3.28ft)



NF1617-CL

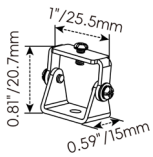
Name	Mounting clip
Material	Aluminum
Standard Length	25mm (0.98in.)




NF1617-LS

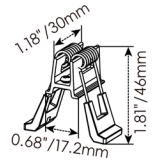
Name	L-shaped mounting bracket
Material	Aluminum
Standard Length	20mm(0.79in.)
* NF1617-LS must be installed with NF1617-SC	

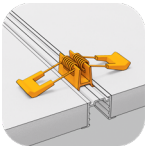






NF1617-AC

Name	Adjustable mounting clip
Material	Stainless steel
Standard Length	25.5mm (1 in.)
* NF1617-AC must be installed with NF1617-SC	



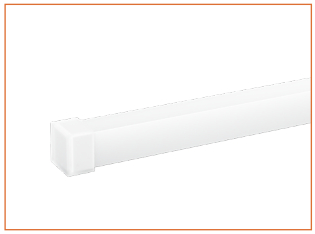

NF1617-RC-SPC

Name	Spring clip
Standard Pkg	1pcs
* NF1617-RC-SPC must be installed with NF1617-RC	

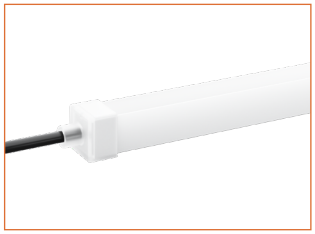
LINIO NEON 1617 POOL PIXEL RGB

Underwater · Vertical Bending · Horizontal Bending

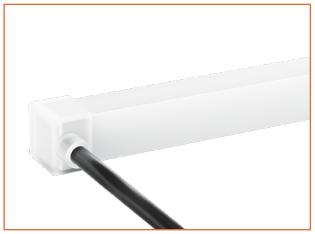
Silicone End Caps (Optional, purchase for extra,) — Not for underwater use



NF1617-SEC-C
Silicone closed end cap



NF1617-SEC-F-5P
Silicone end cap front entry with 300mm (11.81in.) cable, 5 pin

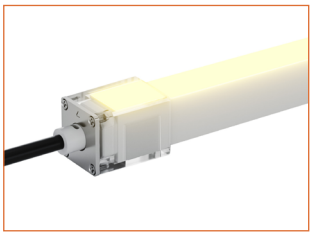


NF1617-SEC-S-5P
Silicone end cap side entry with 300mm (11.81in.) cable, 5 pin

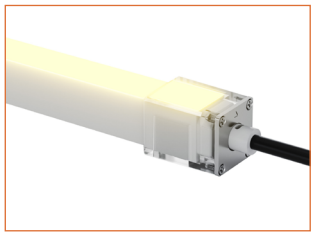


NF1617-SEC-B-5P
Silicone end cap bottom entry with 300mm (11.81in.) cable, 5 pin

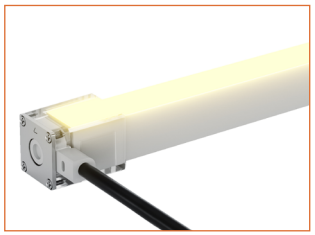
Mechanical End Caps for LINIO NEON 1617 TV(Optional, purchase for extra) — Not for underwater use



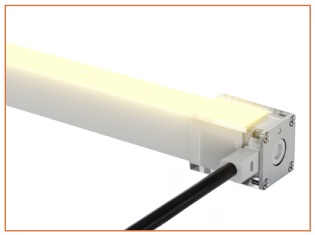
NF1617T-MEC-LF-5P
Mechanical end cap with screws, left front entry, 300mm (11.81in.) cable, 5 pin, IP67



NF1617T-MEC-RF-5P
Mechanical end cap with screws, right front entry, 300mm (11.81in.) cable, 5 pin, IP67



NF1617T-MEC-LS-5P
Mechanical end cap with screws, left side entry, 300mm (11.81in.) cable, 5 pin, IP67



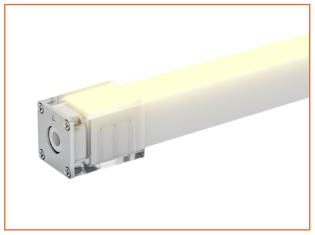
NF1617T-MEC-RS-5P
Mechanical end cap with screws, right side entry, 300mm (11.81in.) cable, 5 pin, IP67



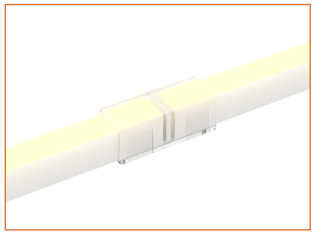
NF1617T-MEC-LB-5P
Mechanical end cap with screws, left bottom entry, 300mm (11.81in.) cable, 5 pin, IP67



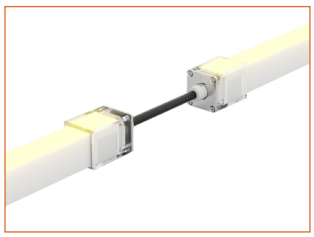
NF1617T-MEC-RB-5P
Mechanical end cap with screws, right bottom entry, 300mm (11.81in.) cable, 5 pin, IP67



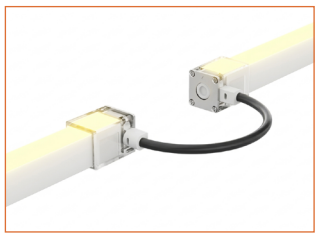
NF1617T-MEC-C
Mechanical closed end cap with screws, IP67



NF1617T-S-S-5P
Strip to strip connector, 5 pin, IP54



NF1617T-JC-F-5P
Jumper connector front entry, 150mm (5.9in.) cable, 5 pin, IP67



NF1617T-JC-S-5P
Jumper connector side entry, 150mm (5.9in.) cable, 5 pin, IP67

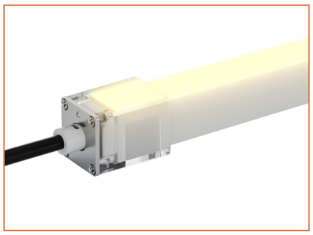


NF1617T-JC-B-5P
Jumper connector bottom entry, 150mm (5.9in.) cable, 5 pin, IP67

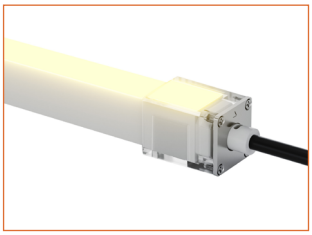
LINIO NEON 1617 POOL PIXEL RGB

Underwater · Vertical Bending · Horizontal Bending

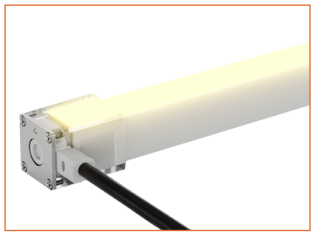
Mechanical End Caps for LINIO NEON 1617 SV(Optional, purchase for extra) — Not for underwater use



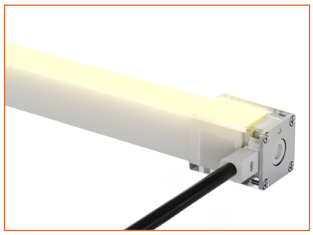
NF1617S-MEC-LF-5P
Mechanical end cap with screws,
left front entry,
300mm (11.81in.) cable, 5 pin, IP67



NF1617S-MEC-RF-5P
Mechanical end cap with screws,
right front entry,
300mm (11.81in.) cable, 5 pin, IP67



NF1617S-MEC-LS-5P
Mechanical end cap with screws,
left side entry,
300mm (11.81in.) cable, 5 pin, IP67



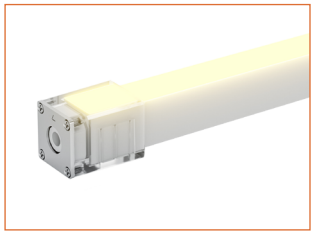
NF1617S-MEC-RS-5P
Mechanical end cap with screws,
right side entry,
300mm (11.81in.) cable, 5 pin, IP67



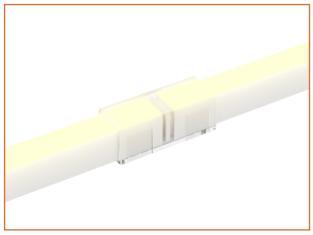
NF1617S-MEC-LB-5P
Mechanical end cap with screws,
left bottom entry,
300mm (11.81in.) cable, 5 pin, IP67



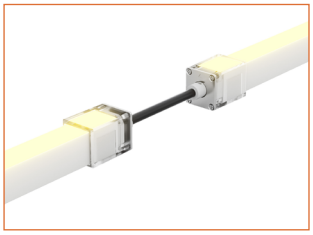
NF1617S-MEC-RB-5P
Mechanical end cap with screws,
right bottom entry,
300mm (11.81in.) cable, 5 pin, IP67



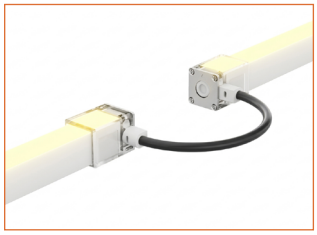
NF1617S-MEC-C
Mechanical closed end cap with
screws, IP67



NF1617S-S-S-5P
Strip to strip connector,
5 pin, IP54



NF1617S-JC-F-5P
Jumper connector front entry,
150mm (5.9in.) cable, 5 pin, IP67



NF1617S-JC-S-5P
Jumper connector side entry,
150mm (5.9in.) cable, 5 pin, IP67



NF1617S-JC-B-5P
Jumper connector bottom entry,
150mm (5.9in.) cable, 5 pin, IP67

Additional Accessories (Optional, purchase for extra)



MCW-5P-67
Male connector,
300mm (11.81in.) white cable,
5 pin, IP67, Wet, 20 AWG



FCW-5P-67
Female connector,
300mm (11.81in.) white cable,
5 pin, IP67, Wet, 20 AWG



MCB-5P-67
Male connector,
300mm (11.81in.) black cable,
5 pin, IP67, Wet, 20 AWG



FCB-5P-67
Female connector,
300mm (11.81in.) black cable,
5 pin, IP67, Wet, 20 AWG



BM-M16-5P
IP68 Waterproof connector



BM-M2068-2T
IP68 Junction Box

LINIO NEON 1617 POOL PIXEL RGB

Underwater · Vertical Bending · Horizontal Bending

Drivers

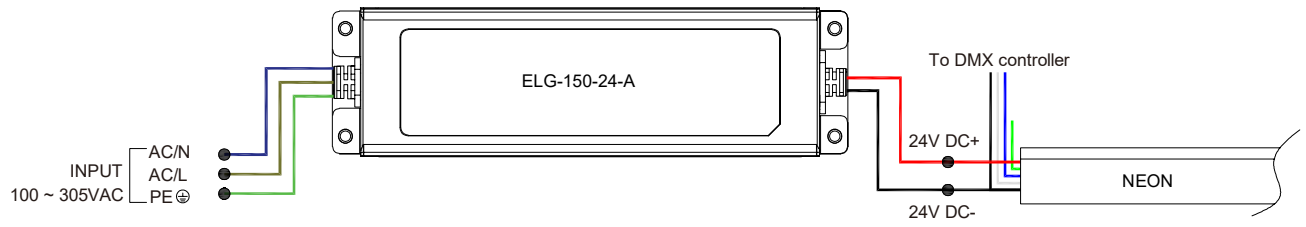
Non-dimmable

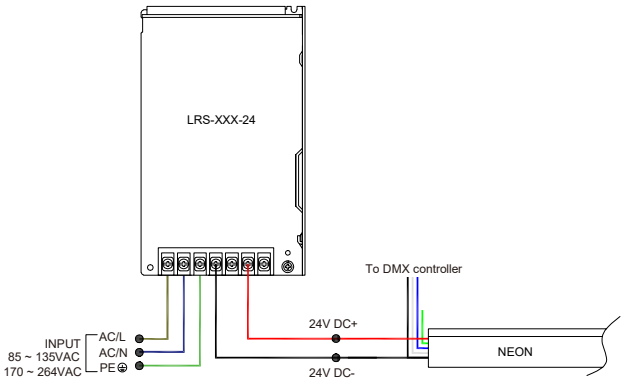
Code	Max Load	Input	Output	Environment	Size (L x W x H)
ELG-150-24A-3Y	150W	100-305VAC	24V	Dry/Damp/IP67	219 * 63 * 35.5 mm
LRS-150-24	150W	85-132VAC / 170-264VAC	24V	Dry	159 * 97 * 30 mm

DMX-Decoders & Controllers Options

Type	Code	Description	Environment	Size (L x W x H)
Controllers	XB-809	Supports up to 160,000 pixels or 60 controllers, with load testing for RGB/RGBW fixtures	Indoor	260 * 160 * 52 mm
Controllers	T-790	8-port output, up to 512 (DMX)/1024 (TTL) pixels per port, with IC grouping and address testing	Indoor	310 * 152 * 42 mm
Controllers	Artnet-DMX-8	8 DMX universes, Artnet- to-DMX512 converter with RJ45 port, ideal for lighting control	Indoor	483 * 200 * 44 mm
Controllers	WT-DMX-M	WiFi & RF 3-in-1 DMX512 controller for RGB/RGBW/RGBCCT lighting	Indoor	120 * 43 * 27 mm

Wiring Diagram





LINIO NEON 1617 POOL PIXEL RGB

Underwater · Vertical Bending · Horizontal Bending

24V Voltage Drop & Maximum Wire Length Chart

Based on 24V voltage with a 3% voltage drop allowance. Indicates the maximum wire length from the power supply to the start of the run.

Total load	8AWG	10AWG	12AWG	14AWG	16AWG	18AWG	20AWG	22AWG
10W / 0.4A	484.0m	304.5m	191.4m	120.4m	75.5m	47.5m	29.8m	18.5m
20W / 0.8A	242.0m	152.1m	95.7m	60.0m	37.8m	23.7m	14.9m	9.1m
30W / 1.3A	161.2m	101.5m	63.7m	39.9m	24.9m	15.8m	9.7m	6.1m
40W / 1.7A	121.0m	75.9m	47.8m	29.8m	18.9m	11.8m	7.3m	4.5m
50W / 2.1A	96.6m	60.6m	38.1m	24.0m	14.9m	9.4m	5.7m	3.6m
60W / 2.5A	80.4m	50.6m	31.7m	19.8m	12.5m	7.9m	4.8m	3.0m
70W / 2.9A	68.8m	43.2m	27.1m	17.0m	10.6m	6.7m	4.2m	2.4m
80W / 3.3A	60.3m	37.8m	23.7m	14.9m	9.4m	5.7m	3.6m	2.1m
90W / 3.8A	53.6m	33.8m	21.0m	13.1m	8.2m	5.1m	3.0m	1.8m
100W / 4.2A	48.1m	30.1m	18.9m	11.8m	7.3m	4.5m	2.7m	1.8m
110W / 4.6A	43.8m	27.4m	17.3m	10.6m	6.7m	4.2m	2.7m	1.5m
120W / 5.0A	40.2m	25.3m	15.8m	9.7m	6.1m	3.9m	2.4m	1.5m
130W / 5.4A	37.1m	23.1m	14.6m	9.1m	5.7m	3.6m	2.1m	1.2m
140W / 5.8A	34.4m	21.6m	13.4m	8.5m	5.1m	3.3m	2.1m	1.2m
150W / 6.3A	32.0m	20.1m	12.5m	7.9m	4.8m	3.0m	1.8m	1.2m
160W / 6.7A	30.1m	18.9m	11.8m	7.3m	4.5m	2.7m	1.8m	0.9m
170W / 7.1A	28.3m	17.6m	10.9m	7.0m	4.2m	2.7m	1.5m	0.9m
180W / 7.5A	26.8m	16.7m	10.3m	6.7m	3.9m	2.4m	1.5m	0.9m
190W / 7.9A	25.3m	15.8m	10.0m	6.0m	3.9m	2.4m	1.5m	0.9m
200W / 8.3A	24.0m	14.9m	9.4m	5.7m	3.6m	2.1m	1.2m	0.9m
210W / 8.8A	22.8m	14.3m	8.8m	5.4m	3.3m	2.1m	1.2m	0.6m
220W / 9.2A	21.9m	13.7m	8.5m	5.4m	3.3m	2.1m	1.2m	0.6m
230W / 9.6A	21.0m	13.1m	8.2m	5.1m	3.0m	1.8m	1.2m	0.6m
240W / 10.0A	20.1m	12.5m	7.9m	4.8m	3.0m	1.8m	1.2m	0.6m
250W / 10.4A	19.2m	12.1m	7.6m	4.5m	2.7m	1.8m	0.9m	0.6m