SILICONE LED NEON · SIDE BEND · IP67

NEON-612S

6 × 12 mm side-bend silicone neon, 24 V DC, slim dot-free line



PROFILE	6 × 12 mm
POWER	10 W/m
VOLTAGE	24 V DC
PROTECTION	IP67
CRI	90
MIN. BEND Ø	50 mm

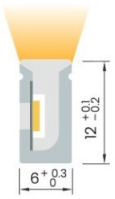
Overview

NEON-612S is a slim 6 × 12 mm side-bend LED neon extruded in one piece from high-transparency, high-strength silicone. The optical structure gives a uniform, shadow-free line of light, and the IP67 body resists salt solution, acids, alkalis and UV. With a 50 mm minimum bend diameter it follows tight contours on deck furniture, steps, handrails and interior details. Single colours are constant current and run up to 18 m from one feed.

Specifications

Bending direction	Side (horizontal)
Cross section	6 +0.3/−0 × 12 +0.1/−0.2 mm
Input voltage	24 V DC
Power	10 W/m
Colour options	SW, WW, NW, W, R, G, B, DW, RGB
CRI	90 (white versions)
Dimming	PWM
Cut unit	50 mm
Min. bend diameter	50 mm
Protection	IP67
Material	Silicone, milky-white diffuser
Ambient temperature	−25 °C to +45 °C
Storage temperature	−25 °C to +60 °C
LED solder-point temp.	Max. 65 °C
Beam angle	118°

Cross Section



Cross section

ORDERING INFORMATION

Product Code

NEON-612S	10	SW … RGB
MODEL	POWER	LIGHT COLOUR
	W/m	see legend

SW 2700K · **WW** 3000K · **NW** 4000K · **W** 6500K · **R** red · **G** green · **B** blue · **DW** dual white 2700–6500K · **RGB**. Single colours are constant current (CC); DW and RGB are constant voltage (CV). Example: **NEON-612S-10-NW**.

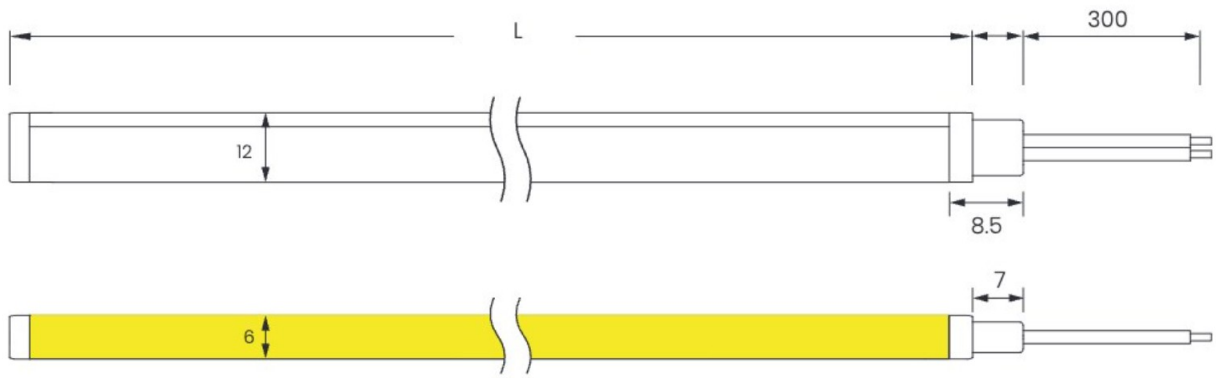
Photometric Data

CODE	COLOUR	DRIVE	POWER	LM/M	LM/W	CUT	MAX RUN	MAX AMB.
NEON-612S-10-SW	Super Warm White 2700K	CC	10 W/m	360	36.0	50 mm	13 m	45 °C
NEON-612S-10-WW	Warm White 3000K	CC	10 W/m	367	36.7	50 mm	13 m	45 °C
NEON-612S-10-NW	Neutral White 4000K	CC	10 W/m	386	38.6	50 mm	13 m	45 °C
NEON-612S-10-W	Cool White 6500K	CC	10 W/m	365	36.5	50 mm	13 m	45 °C
NEON-612S-10-R	Red	CC	10 W/m	158	15.8	50 mm	18 m	45 °C
NEON-612S-10-G	Green	CC	10 W/m	391	39.1	50 mm	13 m	45 °C
NEON-612S-10-B	Blue	CC	10 W/m	78	7.8	50 mm	13 m	45 °C
NEON-612S-10-DW	Dual White 2700–6500K	CV	10 W/m	333	33.3	50 mm	5 m	45 °C
NEON-612S-10-RGB	RGB	CV	10 W/m	141	14.1	50 mm	5 m	45 °C

Measured at 24 V DC, full output. Dual white: 156 lm/m at 2700K, 180 lm/m at 6500K, 333 lm/m both channels. Max run = maximum length from a single feed point. CCT tolerance ±150 K.

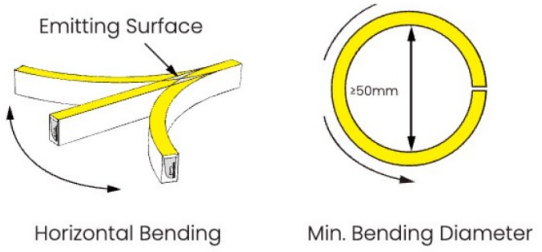
DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



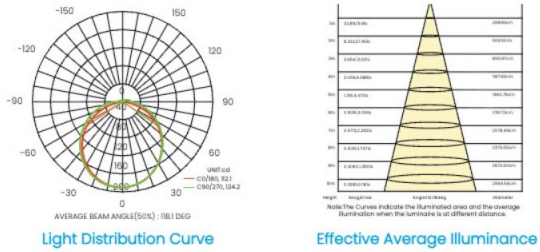
L = ordered length; 300 mm lead cable. Profile 6 × 12 mm.

Bending



Side (horizontal) bending; minimum bend diameter 50 mm.

Light Distribution



Reference: 24 V, 10 W/m, single colour, 4000K. IES files for other versions on request.

Length Standard

NEON LENGTH (L)	INTEGRAL END CAP	SOLDER-FREE END CAP	SILICONE END CAP	TOLERANCE
0 m < L ≤ 5 m	L + 4	L + 32	L + 5	±7
5 m < L ≤ 10 m	L + 4	L + 32	L + 5	±10
10 m < L ≤ 15 m	L + 4	L + 32	L + 5	±13
15 m < L ≤ 20 m	L + 4	L + 32	L + 5	±16
20 m < L ≤ 25 m	L + 4	L + 32	L + 5	±19

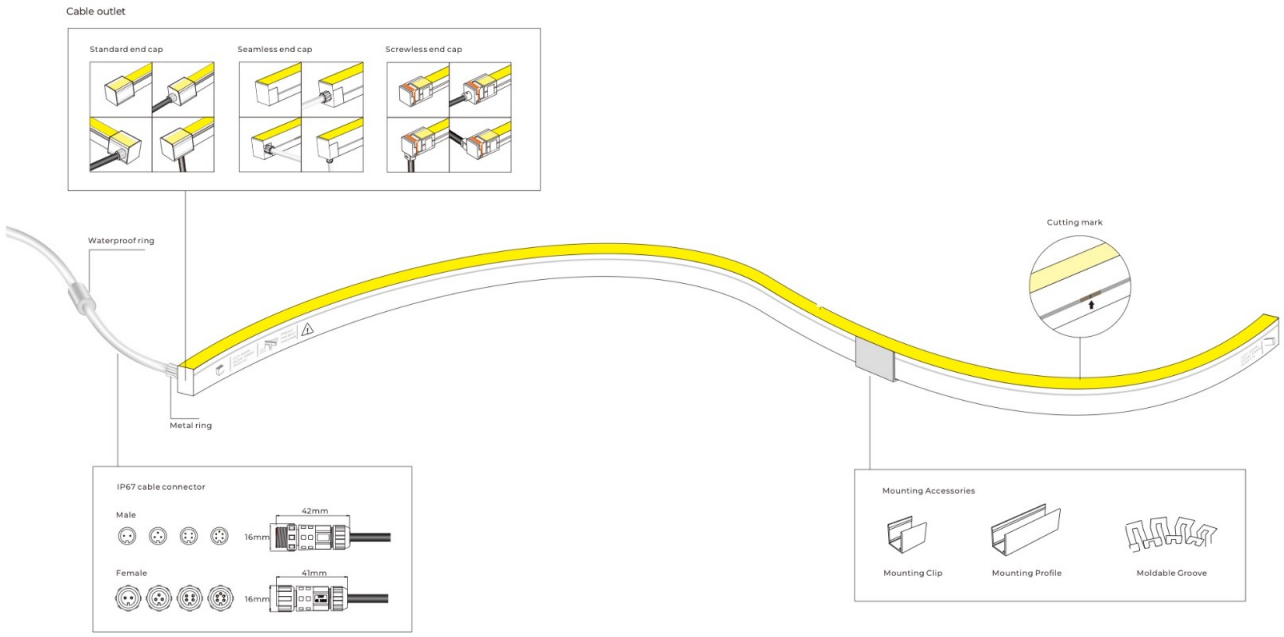
Final length in mm by end-cap type. Light output and power may vary by up to ±10% due to production and component tolerances.

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Cable Outlet & Mounting

End caps, cable entry, connectors and mounting accessories for MareLuce silicone neon.

System Overview



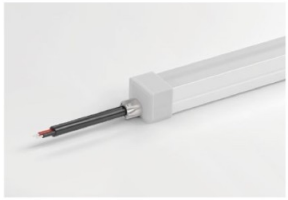
Each piece is supplied sealed: cable outlet at the feed end, closed end cap at the far end. Cut only at the marked cutting points; the maximum run length per feed point is given in the product datasheet.

End Cap Types

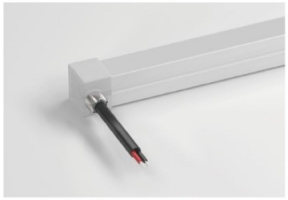
TYPE	CONSTRUCTION	BEST FOR
Standard silicone end cap	Moulded silicone cap, IP67 sealed	General use; the default option
Seamless end cap	Light runs to the very end, no dark area	Corners, butted joints and closed shapes
Screwless end cap	Mechanical quick-connect cap with gasket, IP67 (see next page)	On-site cutting and fast replacement

Cable Entry Direction

Silicone End Cap (IP67)



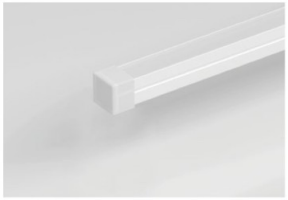
Front Cable Entry



Side Cable Entry



Bottom Cable Entry



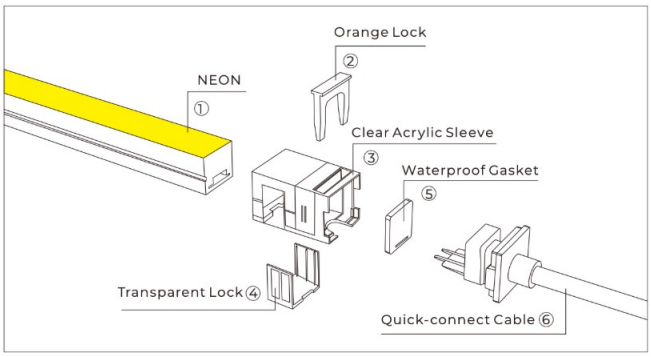
Closed end cap

Front: cable exits in line with the neon. **Side:** cable leaves at 90° for runs that end against a wall. **Bottom:** cable passes straight down through the mounting surface for hidden wiring. **Closed end cap:** blind end without cable. Specify end cap and cable entry for each end when ordering; availability varies by model.

INSTALLATION GUIDE · LED NEON FLEX

Screwless End Cap

IP67 screwless end cap deconstruction diagram



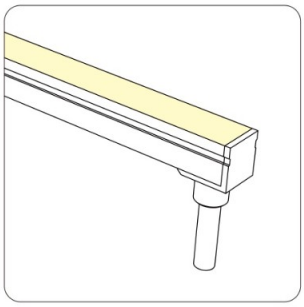
The screwless end cap seals a cut end to IP67 without glue or soldering, so pieces can be cut to length and connected on site.

1. Neon
2. Orange lock
3. Clear acrylic sleeve
4. Transparent lock
5. Waterproof gasket
6. Quick-connect cable

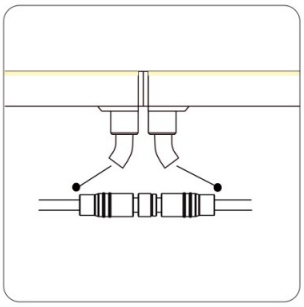
Follow the assembly instructions supplied with the cap.

Joints & Corners

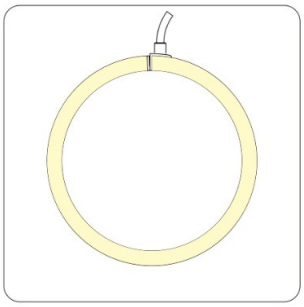
IP67 seamless end cap without dark area



Linear interconnection without dark area



Curve interconnection of lighting outward without dark area



Curve interconnection of lighting outward without dark area



Seamless end caps let two pieces meet without a dark gap, in straight lines and in closed curves. Join pieces with IP67 cable connectors (Ø16 mm, 41–42 mm long, 2 to 5 pins) and place connectors where they stay dry and accessible.

Mounting

ACCESSORY	USE
Mounting clips	Fixed at regular intervals along straight and curved runs; quick to install.
Mounting profile	Aluminium or PC channel for continuous support and a clean, straight line; recommended on exterior and overhead runs.
Moldable groove	Flexible channel that follows curves, letters and logos.
Recessed (wing) neon	Pressed into a routed groove, no profile needed; groove size in the product datasheet.

Installation Notes

- Respect the **bending direction** and **minimum bend diameter** in the product datasheet; do not bend at end caps or cable outlets.
- Do not twist the neon, and never pull or carry it by the cable.
- Cut only at the marked cutting points and reseal every cut end with an end cap to keep the IP rating.
- Use the power supply type and voltage given in the datasheet and do not exceed the maximum run length; feed longer lines from several points.
- On deck and exterior areas keep connections and power supplies protected from standing water; rinse salt deposits with fresh water.
- Switch off the power before installation or maintenance; installation should be carried out by a qualified electrician.

Drawings are for illustration; details may vary by model. Contact MareLuce for project-specific advice.