WING-DESIGNED LED NEON · TOP VIEW

WING-1212T

12 × 12 mm silicone neon with integrated mounting wings, 24 V DC



PROFILE	17 × 12 mm (with wings)
POWER	10 W/m
VOLTAGE	24 V DC
CRI	90
MAX. RUN	13 m
MIN. BEND Ø	150 mm

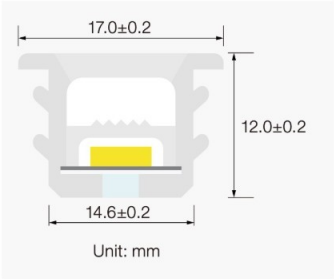
Overview

WING-1212T is a 12 × 12 mm top-view silicone neon with integrated side wings, pressed straight into a routed groove with no mounting profile. The wings hold the light flush in the surface for a clean recessed line in decks, coamings, furniture and steps. Single colours reach up to 585 lm/m and run up to 13 m from one feed. Available in white, colour, dual white and RGB versions; 24 V DC, PWM dimmable.

Specifications

Mounting	**Wing design – no mounting profile needed**
Cross section	**Wings 17.0 ± 0.2 mm · body 14.6 ± 0.2 × 12.0 ± 0.2 mm**
Input voltage	**24 V DC**
Power	**10 W/m**
Colour options	**SW, WW, NW, W, R, G, B, DW, RGB, RGBW**
CRI	**90 (white versions)**
Dimming	**PWM**
Cut unit	**50 mm (DW: 62.5 mm)**
Max. run length	**13 m single colour · 5 m DW / RGB**
Min. bend diameter	**150 mm**
Bending direction	**Vertical only**
Ambient temperature	**−25 °C to +45 °C**
Cable	**PVC, OD 5.0–5.5 mm, 20 AWG; M12 waterproof connector optional**

Cross Section



ORDERING INFORMATION

Product Code

WING-1212T	10	SW … RGBW
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 2700K + 6500K · **RGB** · **RGBW**. Example: **WING-1212T-NW**.

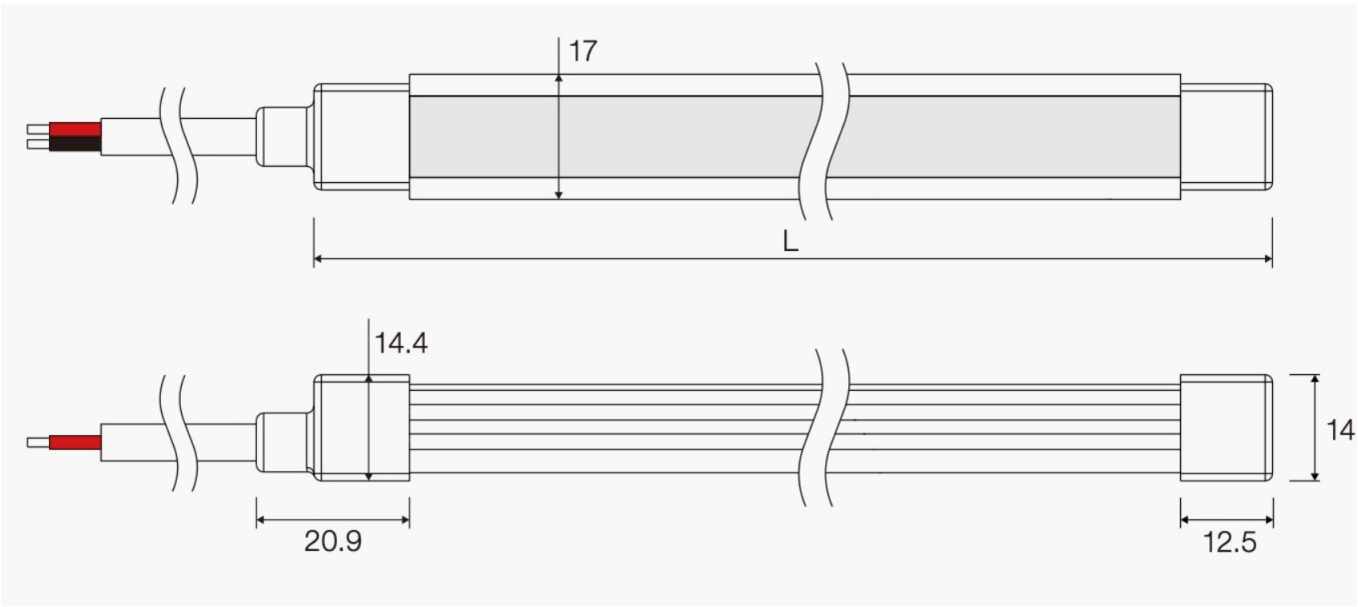
Photometric Data

CODE	COLOUR	POWER	LM/M	LM/W	CUT	MAX RUN
WING-1212T-SW	Super Warm White 2700K	10 W/m	514	51.4	50 mm	13 m
WING-1212T-WW	Warm White 3000K	10 W/m	536	53.6	50 mm	13 m
WING-1212T-NW	Neutral White 4000K	10 W/m	571	57.1	50 mm	13 m
WING-1212T-W	Cool White 6500K	10 W/m	585	58.5	50 mm	13 m
WING-1212T-R	Red 620–625 nm	10 W/m	247	24.7	50 mm	13 m
WING-1212T-G	Green 515–525 nm	10 W/m	603	60.3	50 mm	13 m
WING-1212T-B	Blue 460–465 nm	10 W/m	137	13.7	50 mm	13 m
WING-1212T-DW	Dual White 2700K + 6500K	10 W/m	570	57.0	62.5 mm	5 m
WING-1212T-RGB	RGB	10 W/m	265	26.5	50 mm	5 m
WING-1212T-RGBW	RGB + White	—		on request	—	—

Measured at 24 V DC, full output. Dual white: 270 lm/m at 2700K (5 W/m), 302 lm/m at 6500K (5 W/m), 570 lm/m both channels (10 W/m). RGB: red 55, green 172, blue 33 lm/m (3.3 W/m each). Max run = maximum length from a single feed point. RGBW photometric data on request.

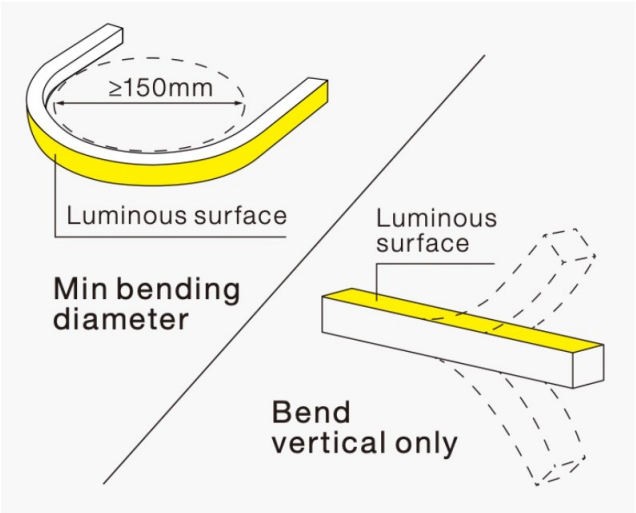
DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



L = ordered length. Wing width 17 mm; end caps 20.9 mm (cable end) and 12.5 mm (closed end).

Bending



Bends vertically only; minimum bend diameter 150 mm.

Wiring

VERSION	CORES
Single colour	Red V+ · Black V−
Dual white	Brown V+ · White W · Yellow WW
RGB	Black V+ · Blue B · Green G · Red R

PVC cable, OD 5.0 mm (RGB 5.5 mm), 20 AWG. M12 male/female waterproof connector available on request.

Length Standard

NEON LENGTH (L)	FINAL LENGTH	TOLERANCE
0 m < L ≤ 5 m	L + 6	±7
5 m < L ≤ 10 m	L + 6	±10
10 m < L ≤ 15 m	L + 6	±13
15 m < L ≤ 20 m	L + 6	±16

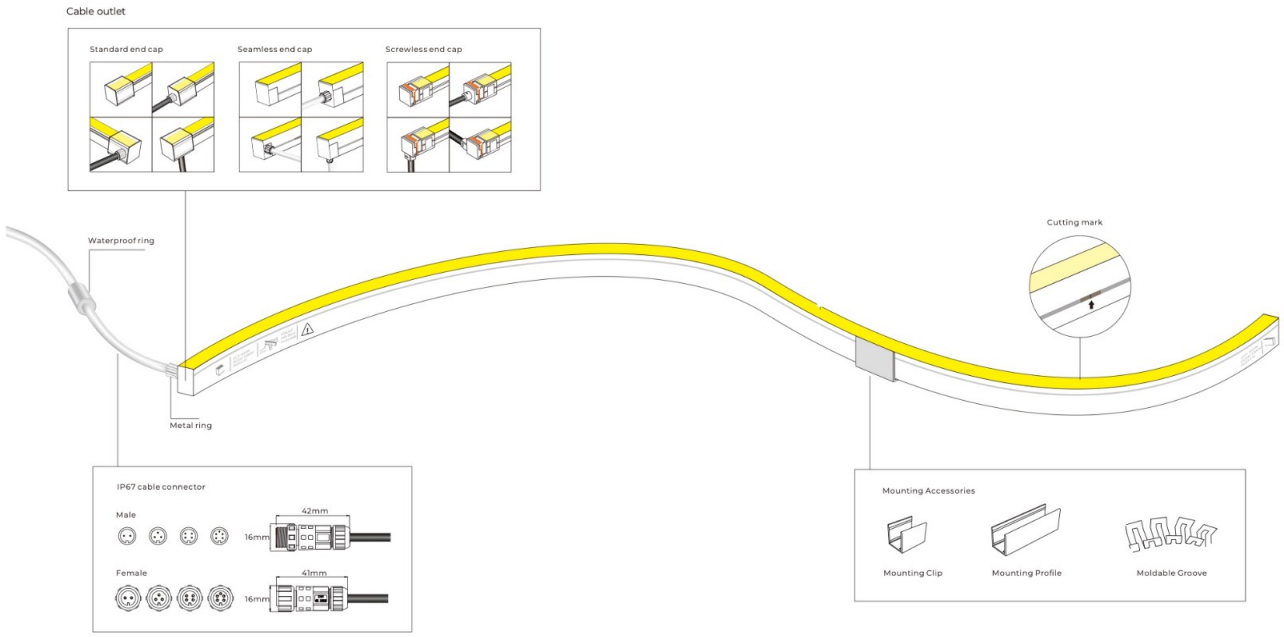
Final length in mm by end-cap type. Light output and power may vary by up to ±10% due to production and component tolerances.

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Cable Outlet & Mounting

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

System Overview



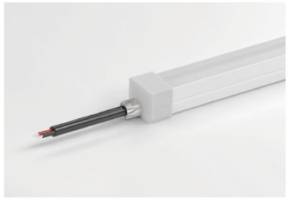
Each piece is supplied sealed: cable outlet at the feed end, closed end cap at the far end. Cut only at the marked cutting points; the maximum run length per feed point is given in the product datasheet.

End Cap Types

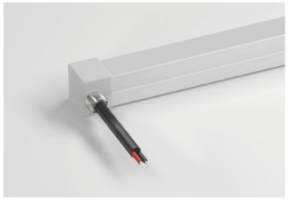
TYPE	CONSTRUCTION	BEST FOR
Standard silicone end cap	Moulded silicone cap, IP67 sealed	General use; the default option
Seamless end cap	Light runs to the very end, no dark area	Corners, butted joints and closed shapes
Screwless end cap	Mechanical quick-connect cap with gasket, IP67 (see next page)	On-site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

Cable Entry Direction

Silicone End Cap (IP67)



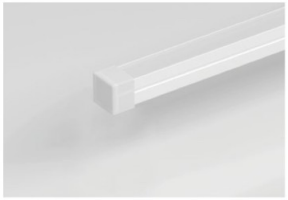
Front Cable Entry



Side Cable Entry



Bottom Cable Entry



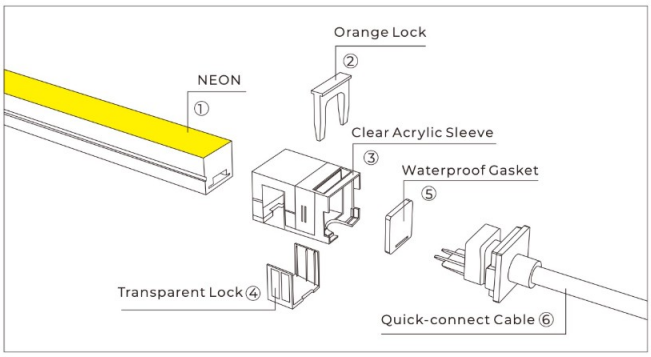
Closed end cap

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



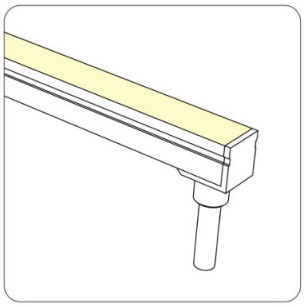
The screwless end cap seals a cut end to IP67 without glue or soldering, so pieces can be cut to length and connected on site.

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

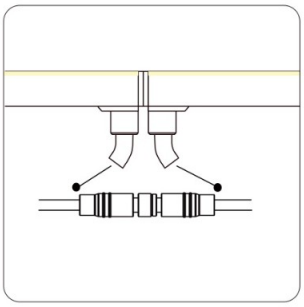
Follow the assembly instructions supplied with the cap.

Joints & Corners

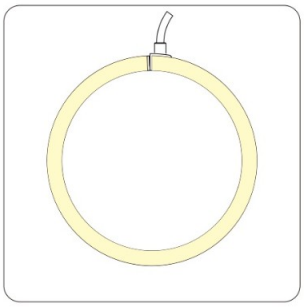
IP67 seamless end cap without dark area



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.