LED NEON FLEX · TOP-BEND SILICONE PROFILE

NEON-1615T

16 × 15 mm cross section · 24 VDC · IP67 · Single colour, tunable white, RGB and RGBW



CROSS SECTION	16 × 15 mm
INPUT	24 VDC
POWER	5–15 W/m
PROTECTION	IP67
MAX. LUMINOUS FLUX	≤1223 lm/m
CUT LENGTH	50 mm

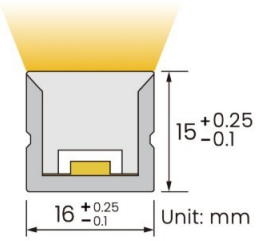
Overview

NEON-1615T is a top-bend silicone LED neon profile with a 16 × 15 mm cross section. Its one-piece extruded silicone housing is rated IP67 and is built for marine and yacht installations, resisting salt water, UV, acids and alkalis. An optical diffusion structure turns the LEDs into a continuous, dot-free and shadow-free line of light. It is available in single colour, tunable white (DW), RGB and RGBW, with constant-voltage (CV) drive for standard runs and constant-current (CC) drive for long runs.

Specifications

Model	**NEON-1615T**
Cross section (W × H)	**16 $^{+0.25/-0.1}$ × 15 $^{+0.25/-0.1}$ mm**
Bend direction	**Top bend (vertical plane)**
Min. bend diameter	**200 mm**
Standard length	**5005 ± 7 mm + 300 ± 15 mm cable**
Input voltage	**24 VDC**
Power	**5 / 10 / 15 W/m · DW 11 W/m · RGB 10–11 W/m · RGBW 15 W/m**
Drive type	**CV (constant voltage) / CC (constant current)**
Dimming	**PWM**
IP rating	**IP67**
Housing	**One-piece extruded silicone, milky white**
Colour rendering	**CRI 90 (white versions)**
Cut length	**50 mm · DW 71.4 mm · RGB/RGBW 83.3 mm (CV) / 125 mm (CC)**
Max. run length	**5–35 m (per version, see p. 2)**
Storage temperature	**–25 … +60 °C**
LED solder-point temp.	**max. 65 °C**
Operating temperature	**–25 °C … +35 / +45 / +55 °C (by power)**

Cross Section



Cross section

ORDERING INFORMATION

Product Code

NEON-1615T	10	WW	-CC
MODEL	POWER 5 · 10 · 11 · 15 W/m	LIGHT COLOUR See list below	DRIVE Constant current · blank for CV

WW 3000K · **NW** 4000K · **W** 6500K · **R** Red · **G** Green · **B** Blue · **DW** Tunable white 2700–6500K · **RGB** · **RGBW** RGB + white (CV: 2700K / 3000K / 4000K / 6500K · CC: 4000K; specify white CCT when ordering) Example: **NEON-1615T-10-WW-CC** = 10 W/m, 3000K, constant current

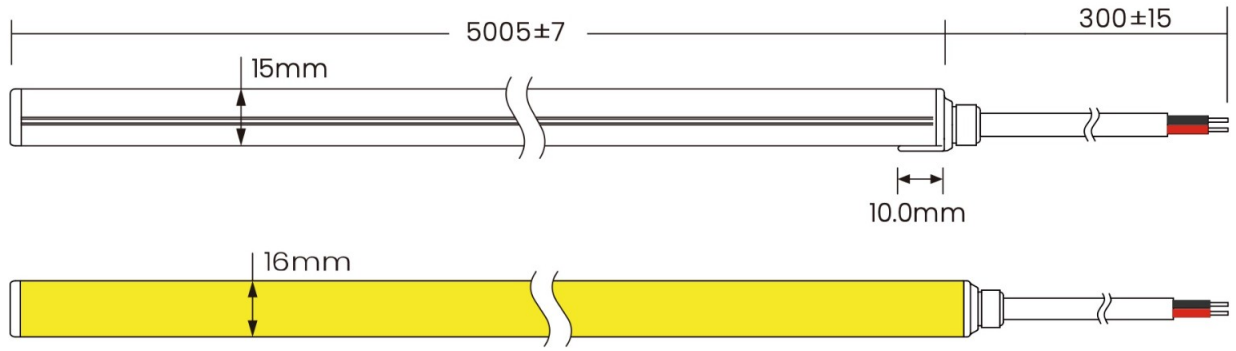
Photometric Data

PRODUCT CODE	LIGHT	POWER	DRIVE	LM/M	LM/W	CUT MM	MAX. RUN M	MAX. AMB. °C
NEON-1615T-5-WW	3000K	5 W/m	CV	407	81.4	50	10	55
NEON-1615T-5-NW	4000K	5 W/m	CV	437	87.4	50	10	55
NEON-1615T-5-W	6500K	5 W/m	CV	435	87.1	50	10	55
NEON-1615T-5-R	Red	5 W/m	CV	167	33.4	50	15	55
NEON-1615T-5-G	Green	5 W/m	CV	463	92.6	50	12	55
NEON-1615T-5-B	Blue	5 W/m	CV	84	16.7	50	8	55
NEON-1615T-10-WW	3000K	10 W/m	CV	777	77.7	50	7	45
NEON-1615T-10-NW	4000K	10 W/m	CV	842	84.2	50	7	45
NEON-1615T-10-W	6500K	10 W/m	CV	839	83.9	50	7	45
NEON-1615T-10-R	Red	10 W/m	CV	335	33.5	50	9	45
NEON-1615T-10-G	Green	10 W/m	CV	769	76.9	50	9	45
NEON-1615T-10-B	Blue	10 W/m	CV	159	15.9	50	6	45
NEON-1615T-15-WW	3000K	15 W/m	CV	1122	74.8	50	5	35
NEON-1615T-15-NW	4000K	15 W/m	CV	1223	81.6	50	5	35
NEON-1615T-15-W	6500K	15 W/m	CV	1218	81.2	50	5	35
NEON-1615T-15-R	Red	15 W/m	CV	494	32.9	50	7	35
NEON-1615T-15-G	Green	15 W/m	CV	993	66.2	50	7	35
NEON-1615T-15-B	Blue	15 W/m	CV	221	14.7	50	5	35
NEON-1615T-5-WW-CC	3000K	5 W/m	CC	342	68.4	50	27	55
NEON-1615T-5-NW-CC	4000K	5 W/m	CC	359	71.7	50	27	55
NEON-1615T-5-W-CC	6500K	5 W/m	CC	356	71.1	50	27	55
NEON-1615T-5-R-CC	Red	5 W/m	CC	137	27.4	50	35	55
NEON-1615T-5-G-CC	Green	5 W/m	CC	367	73.3	50	27	55
NEON-1615T-5-B-CC	Blue	5 W/m	CC	65	13.0	50	27	55
NEON-1615T-10-WW-CC	3000K	10 W/m	CC	653	65.3	50	18	45
NEON-1615T-10-NW-CC	4000K	10 W/m	CC	691	69.1	50	18	45
NEON-1615T-10-W-CC	6500K	10 W/m	CC	685	68.5	50	18	45
NEON-1615T-10-R-CC	Red	10 W/m	CC	275	27.5	50	18	45
NEON-1615T-10-G-CC	Green	10 W/m	CC	609	60.9	50	16	45
NEON-1615T-10-B-CC	Blue	10 W/m	CC	123	12.3	50	18	45
NEON-1615T-15-WW-CC	3000K	15 W/m	CC	943	62.9	50	12	35
NEON-1615T-15-NW-CC	4000K	15 W/m	CC	1004	66.9	50	12	35
NEON-1615T-15-W-CC	6500K	15 W/m	CC	994	66.3	50	12	35
NEON-1615T-15-G-CC	Green	15 W/m	CC	786	52.4	50	10	35
NEON-1615T-15-B-CC	Blue	15 W/m	CC	171	11.4	50	12	35
NEON-1615T-11-DW	2700–6500K	11 W/m	CV	888	80.7	71.4	5	—
NEON-1615T-10-RGB	RGB	10 W/m	CV	307	30.7	83.3	5	45
NEON-1615T-11-RGB-CC	RGB	11 W/m	CC	300	27.0	125	13	—
NEON-1615T-15-RGBW	RGB + 2700K	15 W/m	CV	536	35.7	83.3	5	35
NEON-1615T-15-RGBW	RGB + 3000K	15 W/m	CV	548	36.5	83.3	5	35
NEON-1615T-15-RGBW	RGB + 4000K	15 W/m	CV	576	38.4	83.3	5	35
NEON-1615T-15-RGBW	RGB + 6500K	15 W/m	CV	554	36.9	83.3	5	35
NEON-1615T-15-RGBW-CC	RGB + 4000K	15 W/m	CC	405	27.0	125	10	35

lm/m: luminous flux per metre at full output · Max. run: recommended maximum length from a single feed point · Max. amb.: maximum permitted ambient temperature. DW values are full output (both channels). Other colour temperatures (1800K–5000K) and fixed colours (yellow, orange, pink) on request.

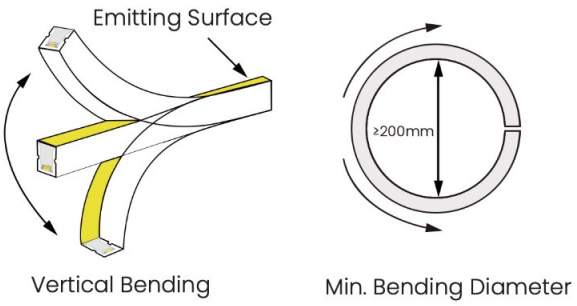
DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



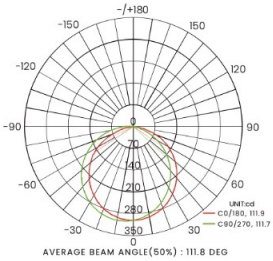
Standard piece: 5005 ± 7 mm neon length with 300 ± 15 mm lead cable. Cross section 16 $^{+0.25/-0.1}$ × 15 $^{+0.25/-0.1}$ mm.

Bending

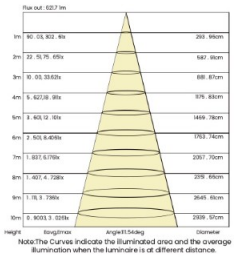


Bends in the vertical plane only (emitting surface outward). Minimum bend diameter Ø200 mm.

Light Distribution



Light Distribution Curve



Effective Average Illuminance

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

Length Standard

NEON LENGTH L (M)	INTEGRAL END CAP	SOLDER-FREE END CAP	SILICONE END CAP	TOLERANCE (MM)
0 < L ≤ 5	L + 5	L + 32	L + 5.5	±7
5 < L ≤ 10	L + 5	L + 32	L + 5.5	±10
10 < L ≤ 15	L + 5	L + 32	L + 5.5	±13
15 < L ≤ 20	L + 5	L + 32	L + 5.5	±16
20 < L ≤ 25	L + 5	L + 32	L + 5.5	±19
25 < L ≤ 30	L + 5	L + 32	L + 5.5	±22
30 < L ≤ 35	L + 5	L + 32	L + 5.5	±25

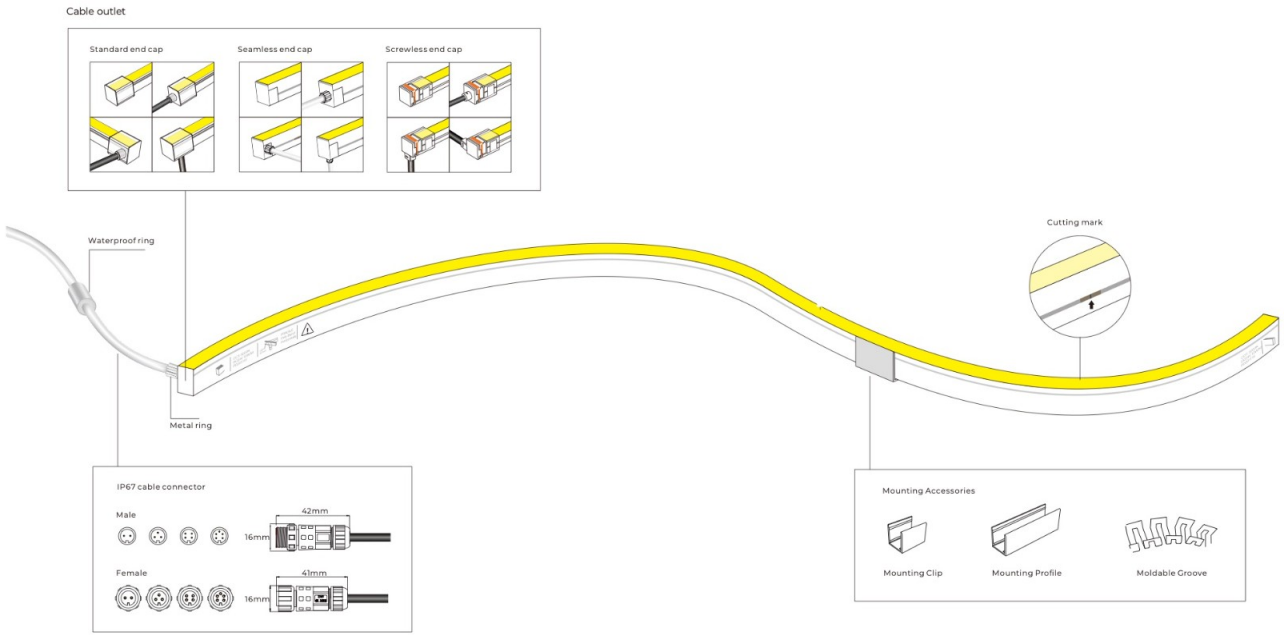
Final length in mm by end-cap type. Light output and power may vary by up to ±10% due to production and component tolerances.

INSTALLATION GUIDE · LED NEON FLEX

Cable Outlet & Mounting

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

System Overview



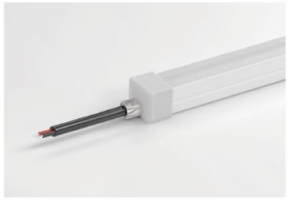
Each piece is supplied sealed: cable outlet at the feed end, closed end cap at the far end. Cut only at the marked cutting points; the maximum run length per feed point is given in the product datasheet.

End Cap Types

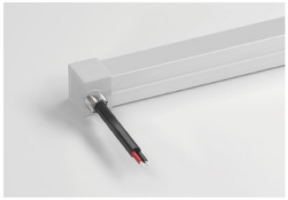
TYPE	CONSTRUCTION	BEST FOR
Standard silicone end cap	Moulded silicone cap, IP67 sealed	General use; the default option
Seamless end cap	Light runs to the very end, no dark area	Corners, butted joints and closed shapes
Screwless end cap	Mechanical quick-connect cap with gasket, IP67 (see next page)	On-site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

Cable Entry Direction

Silicone End Cap (IP67)



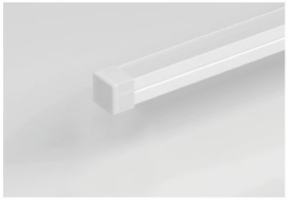
Front Cable Entry



Side Cable Entry



Bottom Cable Entry



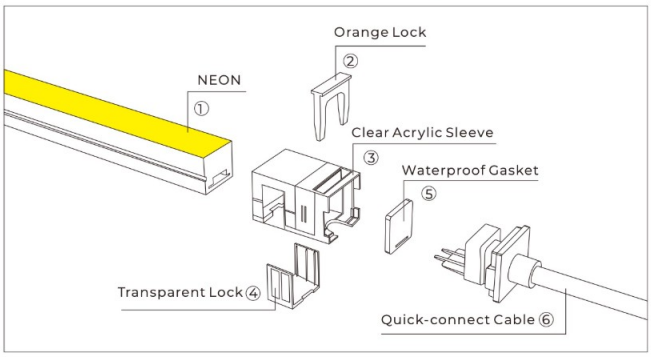
Closed end cap

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



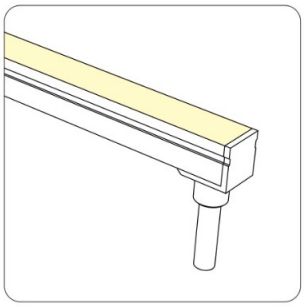
The screwless end cap seals a cut end to IP67 without glue or soldering, so pieces can be cut to length and connected on site.

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

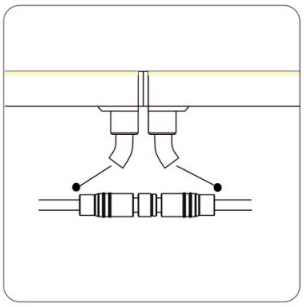
Follow the assembly instructions supplied with the cap.

Joints & Corners

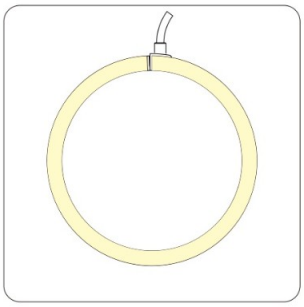
IP67 seamless end cap without dark area



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.