MaxiLED Lighting

Large Globe Series
RGBW (DMX) STRANDS

PROJECT

FIXTURE TYPE

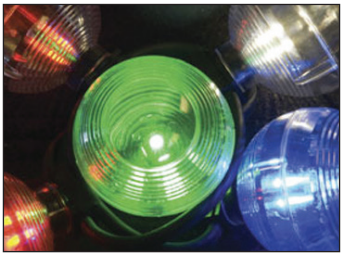
LOCATION

CONTACT

PHONE

Product Description

MaxiLED Strands provide exceptionally long runs of individually controllable LEDs that can be used to outline buildings and bridges or connect architectural features with colorful lighting effects. Each strand is built for permanent installations with rugged, injection-molded outer globes, heavy gauge wiring, and dependable CREE LEDs.

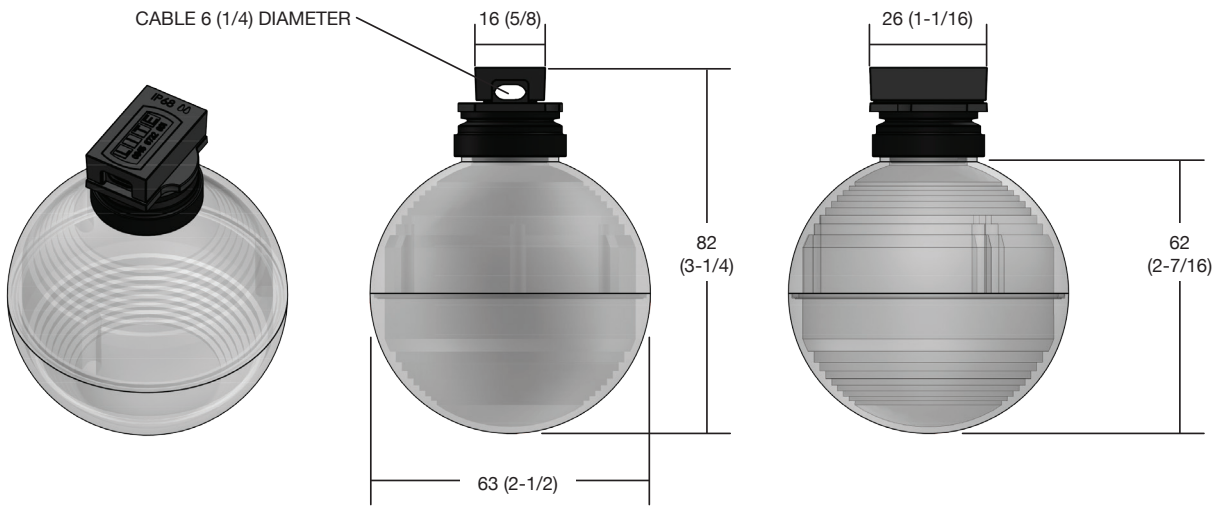


Product Specifications

- **Power Input:** 110-240VAC (50/60 Hz)
- **Power Output:** 48VAC with combined data over line voltage.
- **Light Output:** 98.3 lumens per Globe at full RGBW on.
- **Watts:** 2.35W per Globe at full RGBW on.
- **Cable/Run Lengths:** 100 Globes per strand. 100 m (328 ft) maximum strand length. 75 m (246 ft) maximum length for starter cable at 2.5mmsq cable. or 15m (49 ft) at 1.5mm sq cable (connects power supply with strand).
- **Light Source:** Multi-chip LED with red, green, blue, and white dies.
- **Connectors:** Water-tight (IP 68) and self-locking.
- **Lumen Maintenance:** Estimated 85% lumen maintenance at 70,000 hours, L70 predicted life of 132,000 hours.
- **Environment:** Dry, damp, and wet locations (IP 68). Not for use as a submersible light. Proper drainage required.
- **Cable:** 16 AWG. Weather resistant insulated rubber sheath with two core copper conductors. White or black.
- **Mounting:** Clips available for zip-tie mounting to any surface or walls. Trunking for concealing cables and elastic cable ties also available for trees and live landscaping.
- **Globe Lenses:** UV stabilized polycarbonate. Internally prismatic for maximum optical light output. Globe halves are hermetically sealed.
- **Operating Temperature:** -25° to 50°C (-13° to 122°F)
- **Weight:** Cable is 74g (2.6 oz) per meter. Globe and LED are 58g (2 oz) per assembly.
- **Listings:** UL/cUL (pending), CE, FCC, IK07 impact protection, BS EN 60598, IEC 60598

Dimensions

MM (INS)



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Large Globe Series • RGBW (DMX) STRANDS

Ordering

EXAMPLES: SLG-RGBW-CL-BC-I-500-9000-100-90, SLG-RGBW-ML-WC-M-196-3000-100-30

PRODUCT CODE	LED COLOR	LENS	CABLE COLOR	UNITS	STARTER CABLE	LENGTH OF GLOBE CABLE	NUMBER OF GLOBES	GLOBE SPACING[1]
SLG	RGBW							
SLG MaxiLED Large Globe Series	**RGBW** Each Globe includes a RGBW (red, green, blue, and white) LED and uses four DMX-512 channels	**CL** Clear lens **ML** Matte lens	**BC** Black cable **WC** White cable	**I** Imperial **M** Metric	**CMS OR INS** 100 cm (39-3/8 in) to 7500 cm (2952-3/4 in)	**CMS OR INS**	**1 TO 100**	**CMS OR INS**

TOTAL CABLE LENGTH MUST NOT EXCEED 175,000 CMS (574 FEET)

(GLOBES X GLOBE SPACING) + STARTER CABLE < = 175,000 CMS (574 FT)

Ordering Definitions and Assistance

GLOBE SPACING[1] GUIDELINES

NO. OF GLOBES	AVAILABLE GLOBE SPACING METRIC (CMS)	IMPERIAL (INS)
1	1 to 10000	1 to 3937
2	1 to 5000	1 to 1968
3	1 to 3333	1 to 1312
4	1 to 2500	1 to 984
5	1 to 2000	1 to 787
6	1 to 1666	1 to 656
7	1 to 1428	1 to 562
8	1 to 1250	1 to 492
9	1 to 1111	1 to 437
10	1 to 1000	1 to 393
11	1 to 909	1 to 357
12	1 to 833	1 to 328
13	1 to 769	1 to 302
14	1 to 714	1 to 281
15	1 to 666	1 to 262
16	1 to 625	1 to 246
17	1 to 588	1 to 231
18	1 to 555	1 to 218
19	1 to 526	1 to 207
20	1 to 500	1 to 196
21	1 to 476	1 to 187
22	1 to 454	1 to 178
23	1 to 434	1 to 171
24	1 to 416	1 to 164
25	1 to 400	1 to 157
26	1 to 384	1 to 151
27	1 to 370	1 to 145
28	1 to 357	1 to 140
29	1 to 344	1 to 135
30	1 to 333	1 to 131
31	1 to 322	1 to 126
32	1 to 312	1 to 123
33	1 to 303	1 to 119
34	1 to 294	1 to 115

NO. OF GLOBES	AVAILABLE GLOBE SPACING METRIC (CMS)	IMPERIAL (INS)
35	1 to 285	1 to 112
36	1 to 277	1 to 109
37	1 to 270	1 to 106
38	1 to 263	1 to 103
39	1 to 256	1 to 100
40	1 to 250	1 to 98
41	1 to 243	1 to 96
42	1 to 238	1 to 93
43	1 to 232	1 to 91
44	1 to 227	1 to 89
45	1 to 222	1 to 87
46	1 to 217	1 to 85
47	1 to 212	1 to 83
48	1 to 208	1 to 82
49	1 to 204	1 to 80
50	1 to 200	1 to 78
51	1 to 196	1 to 77
52	1 to 192	1 to 75
53	1 to 188	1 to 74
54	1 to 185	1 to 72
55	1 to 181	1 to 71
56	1 to 178	1 to 70
57	1 to 175	1 to 69
58	1 to 172	1 to 67
59	1 to 169	1 to 66
60	1 to 166	1 to 65
61	1 to 163	1 to 64
62	1 to 161	1 to 63
63	1 to 158	1 to 62
64	1 to 156	1 to 61
65	1 to 153	1 to 60
66	1 to 151	1 to 59
67	1 to 149	1 to 58
68	1 to 147	1 to 57

NO. OF GLOBES	AVAILABLE GLOBE SPACING METRIC (CMS)	IMPERIAL (INS)
69	1 to 144	1 to 57
70	1 to 142	1 to 56
71	1 to 140	1 to 55
72	1 to 138	1 to 54
73	1 to 136	1 to 53
74	1 to 135	1 to 53
75	1 to 133	1 to 52
76	1 to 131	1 to 51
77	1 to 129	1 to 51
78	1 to 128	1 to 50
79	1 to 126	1 to 49
80	1 to 125	1 to 49
81	1 to 123	1 to 48
82	1 to 121	1 to 48
83	1 to 120	1 to 47
84	1 to 119	1 to 46
85	1 to 117	1 to 46
86	1 to 116	1 to 45
87	1 to 114	1 to 45
88	1 to 113	1 to 44
89	1 to 112	1 to 44
90	1 to 111	1 to 43
91	1 to 109	1 to 43
92	1 to 108	1 to 42
93	1 to 107	1 to 42
94	1 to 106	1 to 41
95	1 to 105	1 to 41
96	1 to 104	1 to 41
97	1 to 103	1 to 40
98	1 to 102	1 to 40
99	1 to 101	1 to 39
100	1 to 100	1 to 39

DETERMINE GLOBE SPACING[1]

If you know the **LENGTH OF GLOBE CABLE** and the **NUMBER OF GLOBES** for a strand, you can verify your **GLOBE SPACING**.

A) **LENGTH OF GLOBE CABLE** (CMS OR INS) ..... A

B) **NUMBER OF GLOBES** (MAX 100) ..... B

C) Divide answer A by answer B ..... A÷B

DETERMINE NUMBER OF GLOBES

If you know the **LENGTH OF GLOBE CABLE** and the **GLOBE SPACING**, you can verify your **NUMBER OF GLOBES**.

A) **LENGTH OF GLOBE CABLE** (CMS OR INS) ..... A

B) **GLOBE SPACING** (CMS OR INS) ..... B

C) Divide answer A by answer B ..... A÷B

DETERMINE LENGTH OF GLOBE CABLE

If you know the **NUMBER OF GLOBES** and the **GLOBE SPACING** for a strand, you can verify your **LENGTH OF GLOBE CABLE**.

A) **NUMBER OF GLOBES** (MAX 150) ..... A

B) **GLOBE SPACING** (CMS OR INS) ..... B

C) Divide answer A by answer B ..... A÷B

[1] Specification sheet assumes Globes are spaced at the same distance on the strand. For inconsistently spaced Globes on a strand, contact factory.

Installation Accessories

TREE

- ☐ **ML-SLG-0001** Tree tie
- ☐ **ML-SLG-0002** Cable tie

CATENARY

- ☐ **ML-SLG-0003** Rubber grommet
- ☐ **ML-SLG-0002** Cable tie

SURFACE MOUNT TRUNKING

- ☐ **ML-SLG-0004** D line trunking 39-3/8 in (3 m)
- ☐ **ML-SLG-0007** Flat bend
- ☐ **ML-SLG-0008** Equal tee
- ☐ **ML-SLG-0009** Coupler
- ☐ **ML-SLG-0010** End cap
- ☐ **ML-SLG-0011** Internal bend
- ☐ **ML-SLG-0012** External bend

SURFACE MOUNT CLIP

- ☐ **ML-SLG-0005** Cable saddles
- ☐ **ML-SLG-0002** Cable tie

IP 68 CONNECTOR

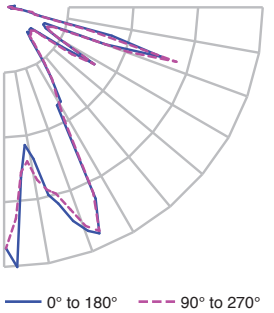
- ☐ **ML-SLG-0006** Plug/socket

Photometrics

CANDELA DISTRIBUTION

	0°	22.5°	45°	67.5°	90°
0°	54	54	54	54	54
5°	38	40	41	40	37
15°	46	44	43	46	44
25°	47	43	45	48	46
35°	14	13	15	14	15
45°	8	8	8	8	8
55°	15	17	18	18	18
65°	9	9	11	11	10
75°	25	21	24	19	20
85°	2	1	2	2	2
90°	1	1	1	1	1

POLAR DISTRIBUTION



ZONAL LUMEN SUMMARY

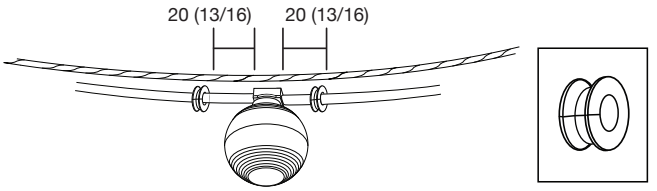
	Lumens
0-10	3.6
10-20	13.0
20-30	18.0
30-40	8.7
40-50	5.8
50-60	13.7

	Lumens
60-70	12.6
70-80	18.8
80-90	2.0
90-100	1.0
100-110	0.9
110-120	0.2

Catenary Cable Installation [1]

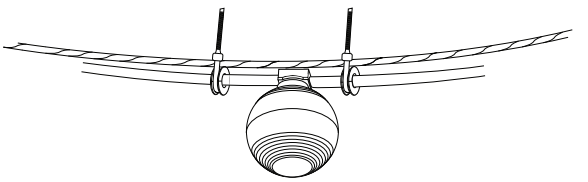
MM (INS)

1. Place rubber grommets over MaxiLED cable



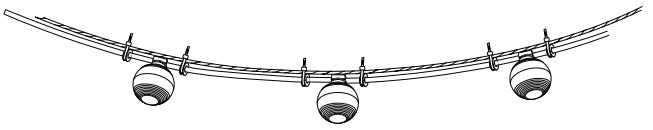
Make sure catenary cable is taught and secure. With the secure catenary cable above the MaxiLED cable, place a rubber grommet 20 mm (13/16 in) on both sides of the globe.

2. Secure MaxiLED cable



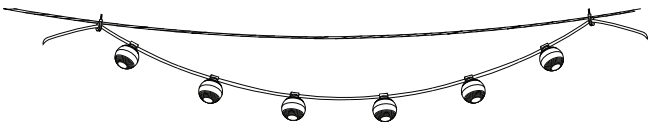
Using an appropriately sized UV resistant zip tie, secure the grommet against the catenary cable. **NOTE:** Ensure grommet is placed on the MaxiLED cable and not the catenary cable.

3. Repeat procedure



Repeat steps 1 and 2 until the entire strand is installed. Connect the installed strand to the transformer. (See **MaxiLINK Installation Instructions**.)

▶ Alternative installation method



Create a hoop effect. Ensure grommet is a minimum of 20 mm (13/16 in) from the globe where cables connect. Connect the installed strand to the transformer. (See MaxiLINK Installation Instructions.)

⚠ This product must be installed by a qualified electrician in accordance with all national and local electrical and construction codes. Failure to comply with the installation instructions can result in injury or death.

1 Contact factory for instructions on installing product in landscaping (trees) or in surface mounted applications.