

Neonflex Top Bend RGB 48V is a flexible linear lighting solution for clean, continuous lines of dynamic light in architectural applications. With top-bend flexibility, it smoothly navigates tight curves, circular forms, and contours. Ideal for curved facades, circular features, and artistic installations requiring lateral bending.

Engineered for reliable outdoor performance, it delivers consistent white illumination through PWM control with CRI  $\geq 80-90$  for accurate color rendering. Housed in robust silicone with nylon connector material and rated IP68 and IK08, it withstands UV, saltwater, and extreme temperatures from  $-40^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  for long-term outdoor durability.

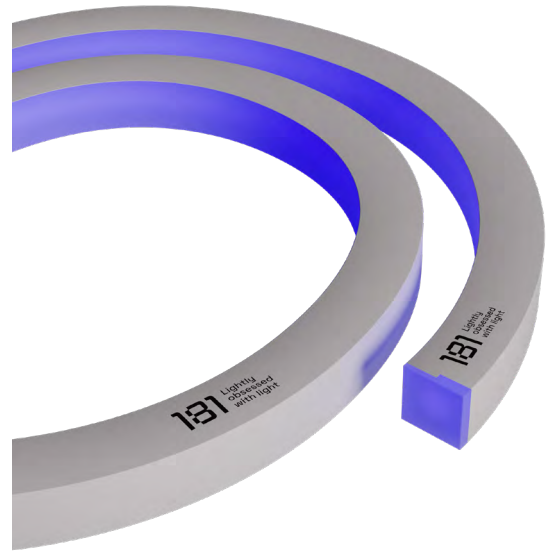
↳ Top-bending – With tight radius options enables seamless integration into curved architectural elements and circular installations.

↳ Durability – IP68/IK08 rating with saltwater resistance and over 70,000 hour lifespan ensures reliable performance in harsh outdoor environments.









## Specifications

### General

|                         |           |     |
|-------------------------|-----------|-----|
| Power Consumption (W/m) | 15        |     |
| Input Voltage (V DC)    | 48        |     |
| LEDs (/m)               | 84        |     |
| LED Pitch (mm)          | 11,90     |     |
| Color Range             | RGB       |     |
| Beam Angle (°)          | 1616/2219 | 120 |
|                         | 1717      | 210 |
|                         | 3027      | 270 |
| LEDs (/segment)         | 14        |     |
| Control                 | PWM       |     |

### Installation Conditions & Lighting Data

|  |                         |     |
|--|-------------------------|-----|
| Segment Length (mm)                    | 167                     |     |
| Bending Radius (mm)                    | 1616/1717               | 150 |
|  | 3027/2219               | 400 |
| Maximum Run Length (m)                 | Single Feed             | 20  |
|  | Double Feed             | 40  |
| Lumen Maintenance Calculated Hours (h) | 70,000 Hours L70 @ 25°C |     |
|  | 50,000 Hours L70 @ 50°C |     |

### Operating

|                               |                        |
|-------------------------------|------------------------|
| Environment                   | Outdoor                |
| Installation Temperature (°C) | 0 to +50               |
| Working Temperature (°C)      | -40 to +55             |
| Saltwater Resistant           | Yes                    |
| UV Resistant                  | Yes                    |
| Flame Resistant               | Yes                    |
| IK Rating                     | IK08                   |
| IP Rating                     | IP68                   |
| Certification                 | RoHs/CE/UL/UKCA/CB/FCC |
| Limited Warranty              | 5 Years                |

### Physical

|                     |               |             |
|---------------------|---------------|-------------|
| Housing Material    | Silicon       |             |
| Cover Material      | Silicon       |             |
| Connector Material  | Nylon (PA66)  |             |
| Housing Color       | White         |             |
| Cable Color         | Black         |             |
| Connector Type      | Bare Wire/M12 |             |
| Weight (kg/m)       | 1616          | 0,45        |
|                     | 1717          | 0,45        |
|                     | 3027          | 0,60        |
|                     | 2219          | 0,60        |
| Dimensions WxH (mm) | 1616          | 16,5 x 16,5 |
|                     | 1717          | 16,5 x 16,5 |
|                     | 3027          | 30 x 28     |
|                     | 2219          | 22 x 19     |

## Options

### Color/CCT

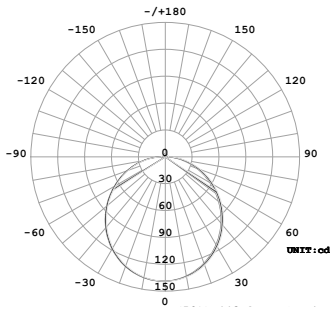
RGB

# Lighting Specifications

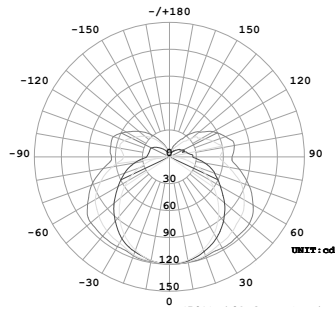
## Neonflex Top Bend

|              | Full RGB<br>(lm/m) | Red<br>(lm/m) | Green<br>(lm/m) | Blue<br>(lm/m) |
|--------------|--------------------|---------------|-----------------|----------------|
| 1616 48V RGB |                    |               |                 |                |
| 1717 48V RGB |                    |               |                 |                |
| 3027 48V RGB |                    |               |                 |                |
| 2219 48V RGB |                    |               |                 |                |

## Photometric Distribution

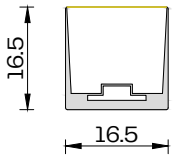


1616 - 113.0° Average Beam Angle

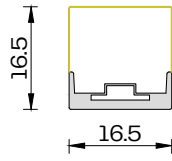


1717 - 164.6° Average Beam Angle

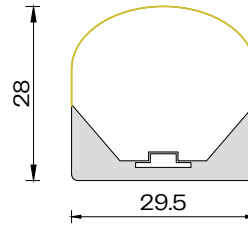
# Dimensions



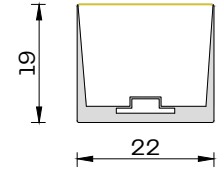
1616



1717

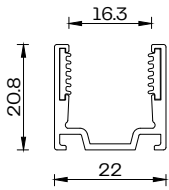


3027



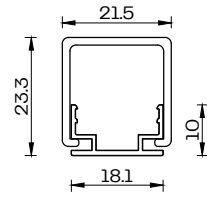
2219

# Accessory Options



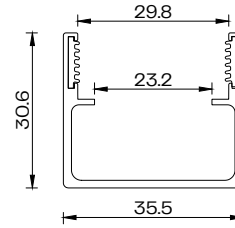
1616<sup>1</sup>

- \_\_\_\_ Straight Profile
- \_\_\_\_ Clip Profile
- \_\_\_\_ Straight Profile Cable Duct
- \_\_\_\_ Straight Profile Recessed
- \_\_\_\_ Straight Profile Transparent
- \_\_\_\_ Curved Profile
- \_\_\_\_ Recessed Profile End Cap



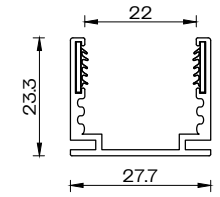
1717<sup>1</sup>

- \_\_\_\_ Straight Profile
- \_\_\_\_ Clip Profile
- \_\_\_\_ Straight Profile Transparent



3027<sup>1</sup>

- \_\_\_\_ Straight Profile
- \_\_\_\_ Clip Profile
- \_\_\_\_ Curved Profile

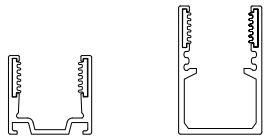


2219<sup>1</sup>

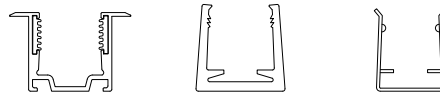
- \_\_\_\_ Straight Profile
- \_\_\_\_ Clip Profile
- \_\_\_\_ Straight Profile Cable Duct
- \_\_\_\_ Curved Profile

<sup>1</sup>Straight Profile is shown. The dimensions shown are not to scale. Please refer to the Dimension Sheet document for additional dimensions.

# Profile Specifications



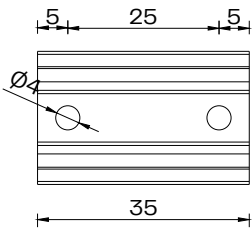
Profile Cable Duct



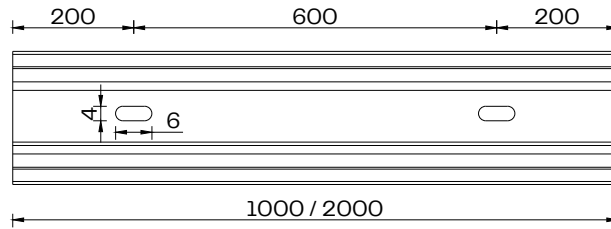
Recessed Transparent Flex

## Physical

|                              |                     |
|------------------------------|---------------------|
| Profile Material             | Aluminum Alloy 6063 |
| Transparent Profile Material | Polycarbonate       |
| Aluminum Profile finish      | Blank Anodized      |



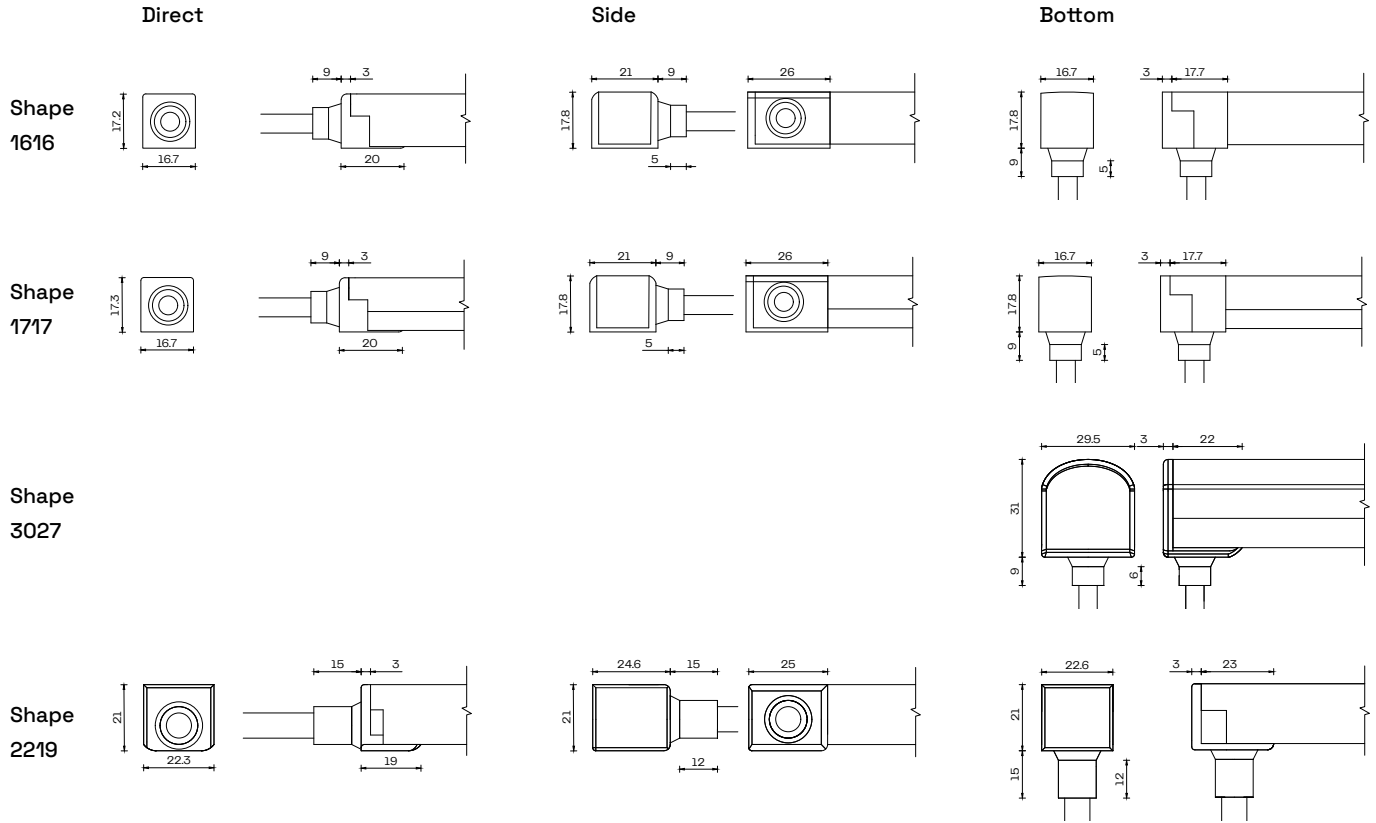
Clip Profile



Mounting Profile<sup>1</sup>

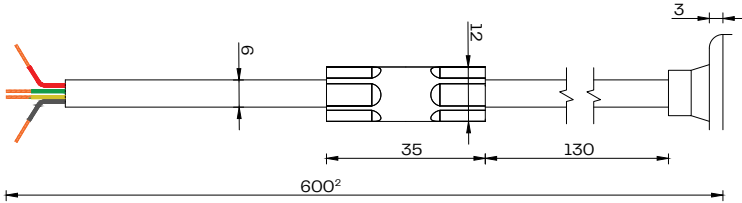
<sup>1</sup>1000mm profile is standard. 2000mm is available to order.

# Cable Entry Options



# Connection Options

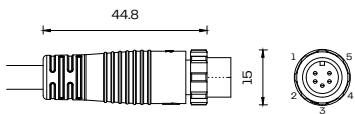
Multi Color RGB Bare Wires with waterstop<sup>1</sup>



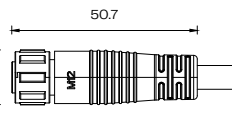
Wire Color

|        |       |
|--------|-------|
| Red    | 48 V+ |
| Green  | Green |
| Yellow | Red   |
| Black  | Blue  |

M12 Male Connector<sup>3</sup>



M12 Female Connector



Connector Pin

|       |        |       |
|-------|--------|-------|
| Pin 1 | Red    | 48 V+ |
| Pin 2 | Green  | Green |
| Pin 3 | White  | NC    |
| Pin 4 | Yellow | Red   |
| Pin 5 | Black  | Blue  |

<sup>1</sup>Removing the waterstop will void the warranty.

<sup>2</sup>600 mm cable length is standard. Custom length is available on request.

<sup>3</sup>When opting for M12 connector the cable including connector is 300 mm.

# Product References

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## Neonflex

| Reference | Description                    |
|-----------|--------------------------------|
| 3171372   | Neonflex Top Bend 1616 48V RGB |
| 3171373   | Neonflex Top Bend 1717 48V RGB |
| 3171374   | Neonflex Top Bend 3027 48V RGB |
| 3171375   | Neonflex Top Bend 2219 48V RGB |

## Accessories

### Straight Profiles

| Reference | Description                                     |
|-----------|---|
| 3167904   | Neonflex 1616 Straight Profile 1000             |
| 3167926   | Neonflex 1616 Straight Profile 2000             |
| 3167934   | Neonflex 1616 Clip Profile                      |
| 3167967   | Neonflex 1616 Straight Profile Cable Duct 1000  |
| 3167968   | Neonflex 1616 Straight Profile Cable Duct 2000  |
| 3167909   | Neonflex 1616 Straight Profile Recessed 1000    |
| 3167913   | Neonflex 1616 Straight Profile Recessed 2000    |
| 3167960   | Neonflex 1616 Recessed Profile End Cap 2pcs     |
| 3167969   | Neonflex 1616/1717 Straight Profile Transparent |
| 3167907   | Neonflex 1717 Straight Profile 1000             |
| 3167927   | Neonflex 1717 Straight Profile 2000             |
| 3167935   | Neonflex 1717 Clip Profile                      |
| 3167908   | Neonflex 3027 Straight Profile 1000             |
| 3167930   | Neonflex 3027 Straight Profile 2000             |
| 3167937   | Neonflex 3027 Clip Profile                      |
| 3167975   | Neonflex 2219 Straight Profile 1000             |
| 3167976   | Neonflex 2219 Straight Profile 2000             |
| 3167977   | Neonflex 2219 Clip Profile                      |
| 3167978   | Neonflex 2219 Straight Profile Cable Duct 1000  |
| 3167979   | Neonflex 2219 Straight Profile Cable Duct 2000  |

### Curved Profiles

| Reference | Description                                |
|-----------|--|
| 3167918   | Neonflex Top Bend 1616 Curved Profile 1000 |
| 3167942   | Neonflex Top Bend 1616 Curved Profile 2000 |
| 3167922   | Neonflex Top Bend 3027 Curved Profile 1000 |
| 3167943   | Neonflex Top Bend 3027 Curved Profile 2000 |
| 3167953   | Neonflex Top Bend 2219 Curved Profile 1000 |
| 3167954   | Neonflex Top Bend 2219 Curved Profile 2000 |