

Neonflex Side Bend

Single Color 48V

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Neonflex Side Bend Single Color 48V is a flexible linear lighting solution for clean, continuous lines of white light in architectural applications. With side-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 ≥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°C to +55° for long-term outdoor durability.

➤ Side-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.

CE

RoHS

UL

IP68

IK08



Specifications

General		
Power Consumption (W/m)	1010	8
	0816	12
Input Voltage (V DC)	48	
LEDs (/m)	1010	120
	0816	140
LED Pitch (mm)	1010	8,33
	0816	7,14
Color Range	Single Color	
Beam Angle (°)	120	
LEDs Segment	1010	12
	0816	14
CRI	≥80, ≥90	
Control	PWM	

Installation Conditions & Lighting Data		
Segment Length (mm)	100	
Bending Radius (mm)	1010	150
	0816	80
Maximum Run Length (m)	1010	15
	0816	20
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
Coastal Environmental Proof	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)	0,40	
Dimensions WxH (mm)	0816	8 x 16
	1010	10X10

Options

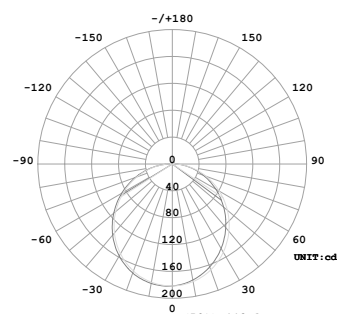
Color/CCT		
1010	☐ Green	0816 ☐ Green
	☐ Blue	☐ Blue
	☐ Lemon Yellow	☐ Purple
	☐ Purple	

Lighting Specifications

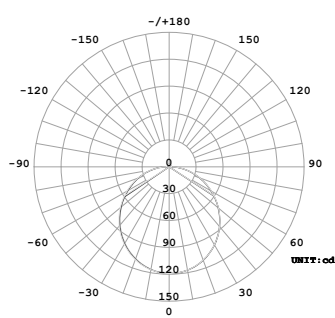
Neonflex Side Bend

	Full Color (mm)
1010 48V - Green	
1010 48V - Blue	
1010 48V - Lemon Yellow	
0816 48V - Green	
0816 48V - Blue	
0816 48V - Purple	

Photometric Distribution



1010 - 112.8° Average Beam Angle



0816 - 113.1° Average Beam Angle

Dimensions



Accessory Options

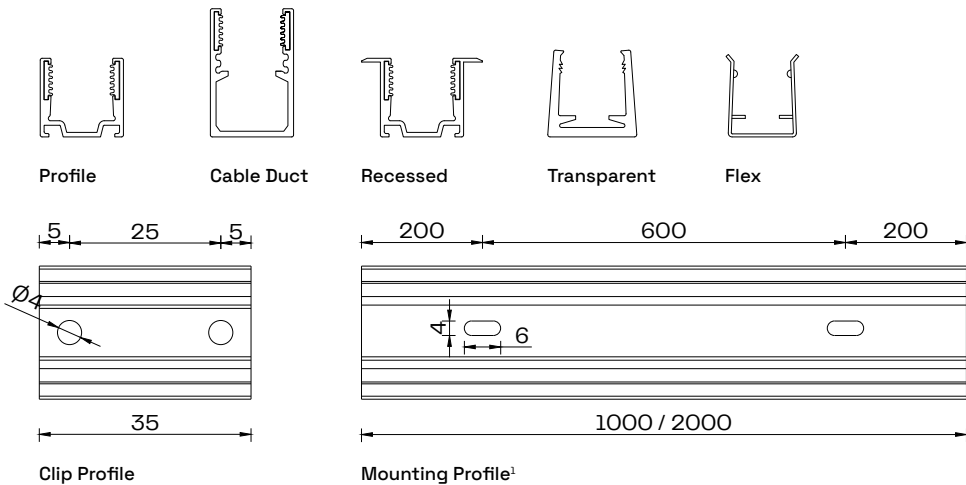


- Straight Profile
- Clip Profile
- Curved Profile
- Straight Profile Transparent

- Straight Profile
- Clip Profile
- Curved Profile

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

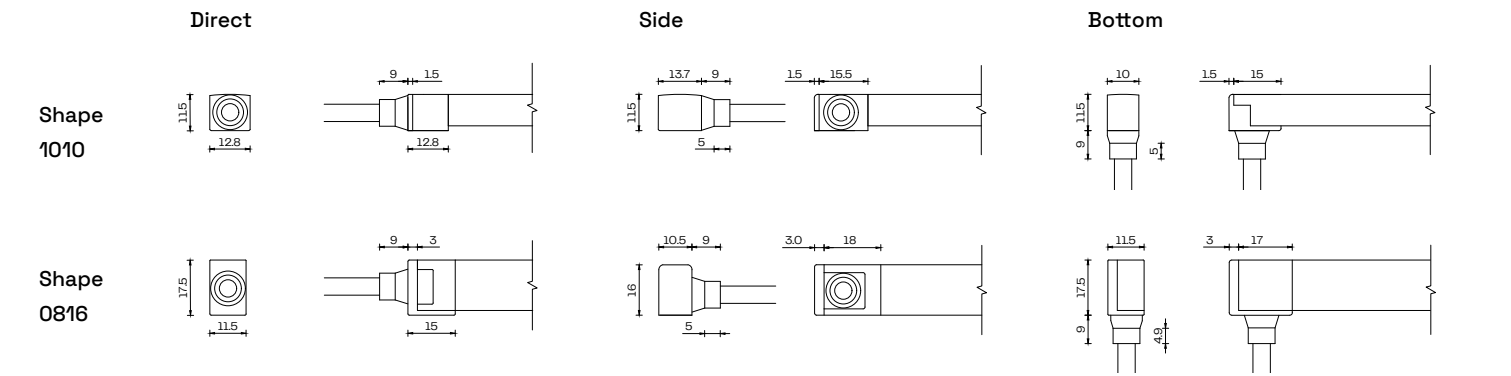
Profile Specifications



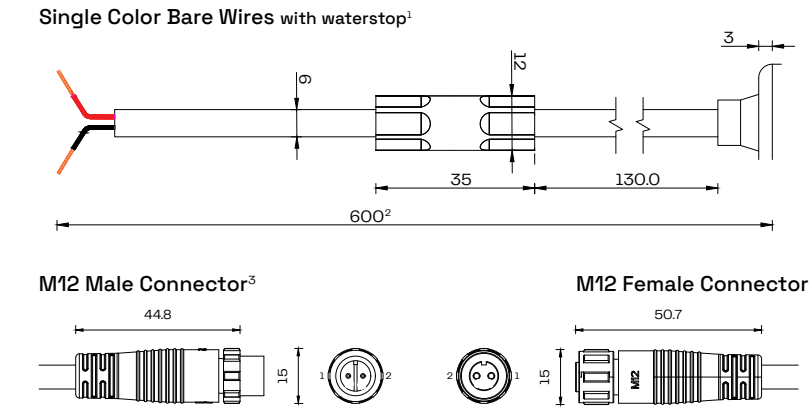
Physical	
Profile Material	Aluminum Alloy 6063
Transparent Profile Material	Polycarbonate
Aluminum Profile finish	Blank Anodized

¹1000mm profile is standard. 2000mm is available to order.

Cable Entry Options



Connection Options



Wire Color	
Red	48 V+
Black	GND

Connector Pin		
Pin 1	Red	48 V+
Pin 2	Black	GND

¹Removing the waterstop will void the warranty.
²600 mm cable length is standard. Custom length is available on request.
³When opting for M12 connector the cable including connector is 300 mm.

Product References

Neonflex

Reference	Description
3171488	Neonflex Side Bend 1010 48V Green
3171489	Neonflex Side Bend 1010 48V Blue
3171490	Neonflex Side Bend 1010 48V Lemon Yellow
3171491	Neonflex Side Bend 1010 48V Purple
3171496	Neonflex Side Bend 0816 48V Green
3171497	Neonflex Side Bend 0816 48V Blue
3171498	Neonflex Side Bend 0816 48V Purple

Accessories

Straight Profiles

Reference	Description
3167902	Neonflex 1010 Straight Profile 1000
3167924	Neonflex 1010 Straight Profile 2000
3167932	Neonflex 1010 Clip Profile
3167961	Neonflex 1010 Straight Profile Transparent
3167901	Neonflex 0816 Straight Profile 1000
3167928	Neonflex 0816 Straight Profile 2000
3167936	Neonflex 0816 Clip Profile

Curved Profiles

Reference	Description
3167915	Neonflex Side Bend 1010 Curved Profile 1000
3167944	Neonflex Side Bend 1010 Curved Profile 2000
3167914	Neonflex Side Bend 0816 Curved Profile 1000
3167945	Neonflex Side Bend 0816 Curved Profile 2000