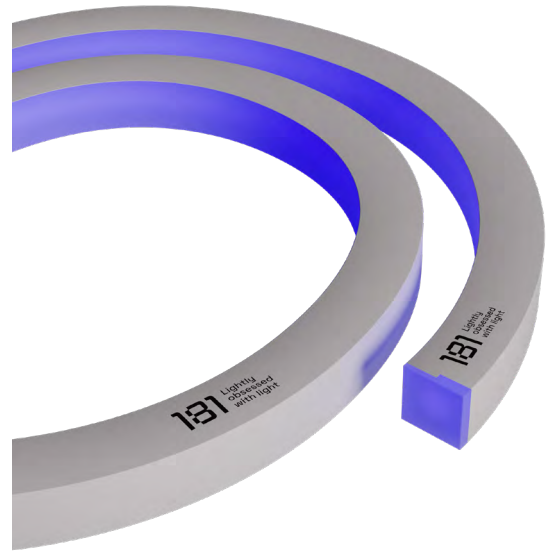


Neonflex Top Bend RGBW 48V is a flexible linear lighting solution for clean, continuous lines of light in architectural applications. With top-bend flexibility, it smoothly navigates tight curves, circular forms, and contours. Ideal for curved facades, circular features, and artistic installations requiring 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°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)	20	
Input Voltage (V DC)	48	
LEDs (/m)	84	
LED Pitch (mm)	11,90	
Color Range	RGBW	
Beam Angle (°)	1616/2219	120
	1717	210
	3027	270
LEDs (/segment)	14	
CRI	$\geq 80, \geq 90$	
Control	PWM	

Installation Conditions & Lighting Data		
Segment Length (mm)	167	
Bending Radius (mm)	1616/1717	120
	3027/2219	400
Maximum Run Length (m)	Single Feed	14
	Double Feed	28
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

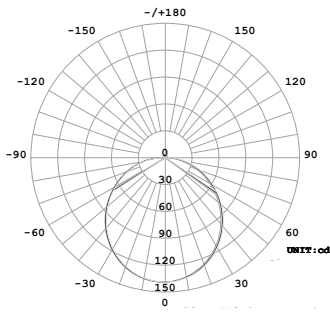
Color/CCT
<input type="checkbox"/> RGBW2700K
<input type="checkbox"/> RGBW3000K
<input type="checkbox"/> RGBW4000K
<input type="checkbox"/> RGBW5000K

Lighting Specifications

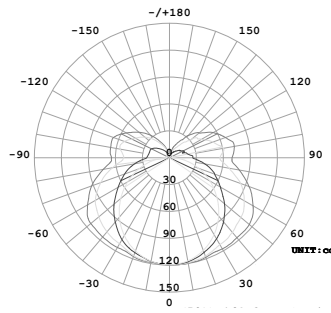
Neonflex Top Bend

	Full RGBW (lm/m)	Red (lm/m)	Green (lm/m)	Blue (lm/m)	White (lm/m)
1616 48V RGBW2700K					
1616 48V RGBW3000K					
1616 48V RGBW4000K					
1616 48V RGBW5000K					
1717 48V RGBW2700K					
1717 48V RGBW3000K					
1717 48V RGBW4000K					
1717 48V RGBW5000K					
3027 48V RGBW2700K					
3027 48V RGBW3000K					
3027 48V RGBW4000K					
3027 48V RGBW5000K					
2219 48V RGBW2700K					
2219 48V RGBW3000K					
2219 48V RGBW4000K					
2219 48V RGBW5000K					

Photometric Distribution

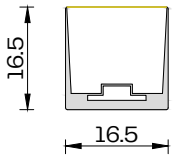


1616 - 113.0° Average Beam Angle

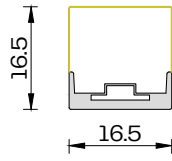


1717 - 164.6° Average Beam Angle

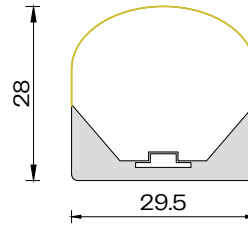
Dimensions



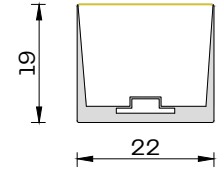
1616



1717

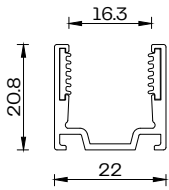


3027



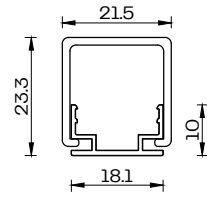
2219

Accessory Options



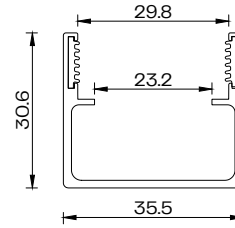
1616¹

- ____ Straight Profile
- ____ Clip Profile
- ____ Straight Profile Cable Duct
- ____ Straight Profile Recessed
- ____ Straight Profile Transparent
- ____ Curved Profile
- ____ Recessed Profile End Cap



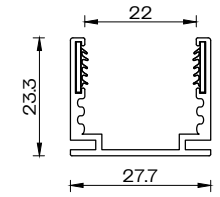
1717¹

- ____ Straight Profile
- ____ Clip Profile
- ____ Straight Profile Transparent



3027¹

- ____ Straight Profile
- ____ Clip Profile
- ____ Curved Profile

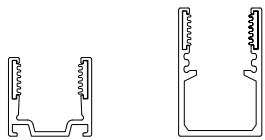


2219¹

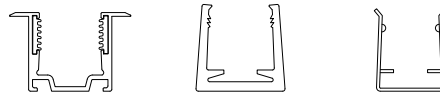
- ____ Straight Profile
- ____ Clip Profile
- ____ Straight Profile Cable Duct
- ____ Curved Profile

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

Profile Specifications



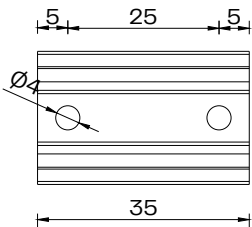
Profile Cable Duct



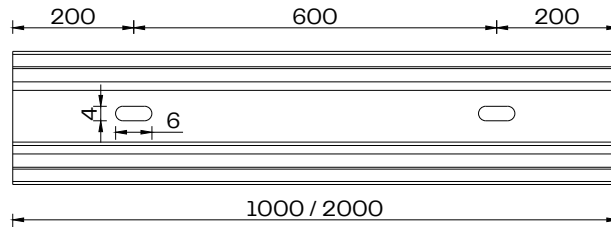
Recessed Transparent Flex

Physical

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



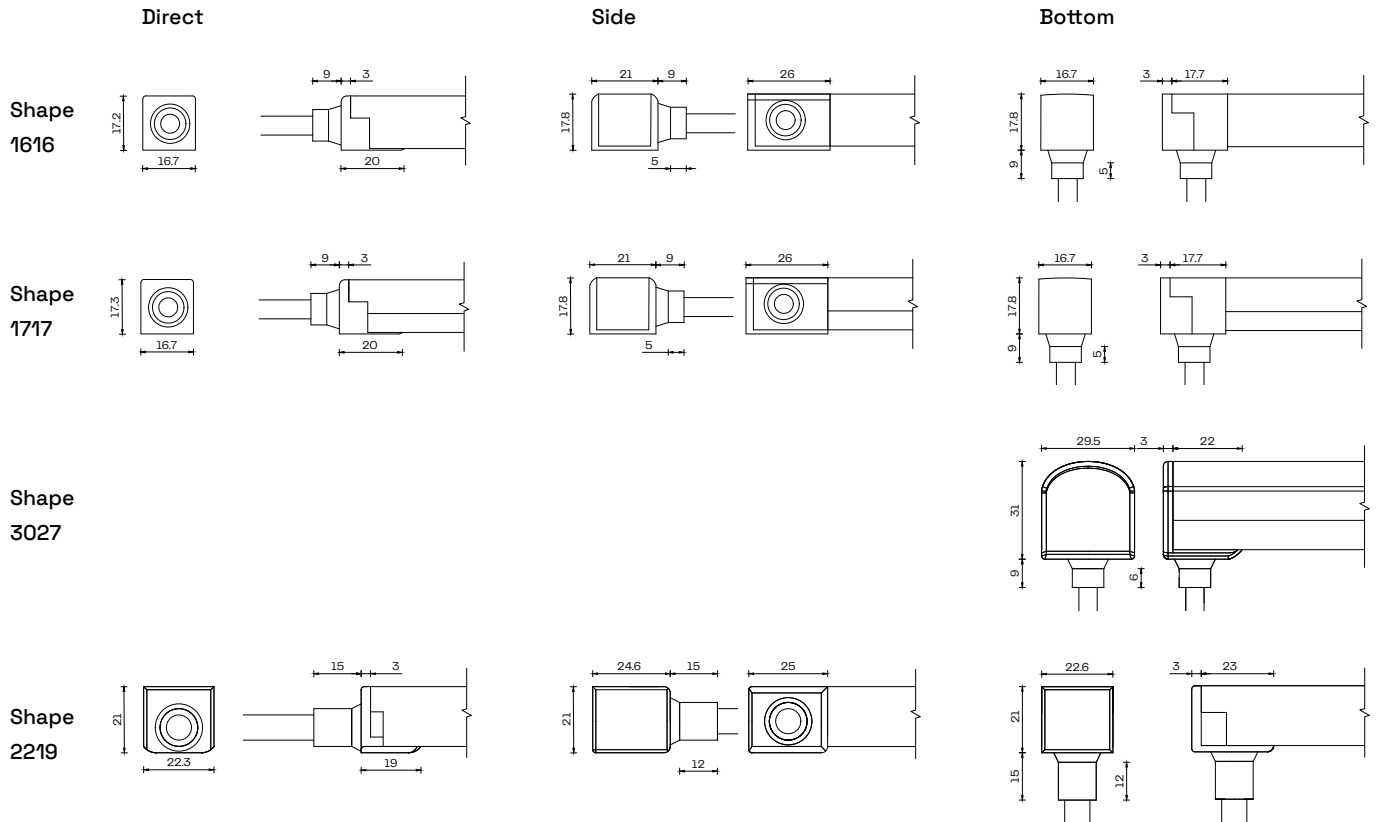
Clip Profile



Mounting Profile¹

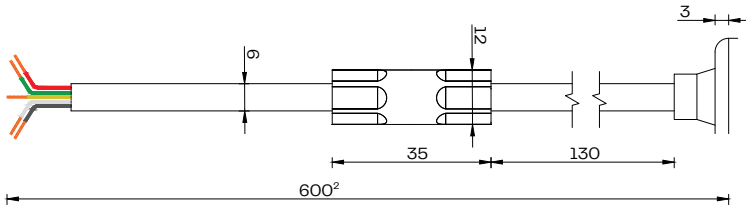
¹1000mm profile is standard. 2000mm is available to order.

Cable Entry Options



Connection Options

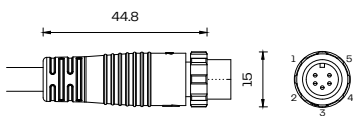
Multi Color RGBW Bare Wires with waterstop¹



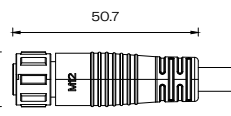
Wire Color

Red	48 V+
Green	Green
Yellow	Red
White	White
Black	Blue

M12 Male Connector³



M12 Female Connector



Connector Pin

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

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
3171392	Neonflex Top Bend 1616 48V RGBW2700K
3171393	Neonflex Top Bend 1616 48V RGBW3000K
3171394	Neonflex Top Bend 1616 48V RGBW4000K
3171395	Neonflex Top Bend 1616 48V RGBW5000K
3171396	Neonflex Top Bend 1717 48V RGBW2700K
3171397	Neonflex Top Bend 1717 48V RGBW3000K
3171398	Neonflex Top Bend 1717 48V RGBW4000K
3171399	Neonflex Top Bend 1717 48V RGBW5000K
3171404	Neonflex Top Bend 3027 48V RGBW2700K
3171405	Neonflex Top Bend 3027 48V RGBW3000K
3171406	Neonflex Top Bend 3027 48V RGBW4000K
3171407	Neonflex Top Bend 3027 48V RGBW5000K
3171400	Neonflex Top Bend 2219 48V RGBW2700K
3171401	Neonflex Top Bend 2219 48V RGBW3000K
3171402	Neonflex Top Bend 2219 48V RGBW4000K
3171403	Neonflex Top Bend 2219 48V RGBW5000K

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