Neonflex Top Bend Multi Color RGB 24V

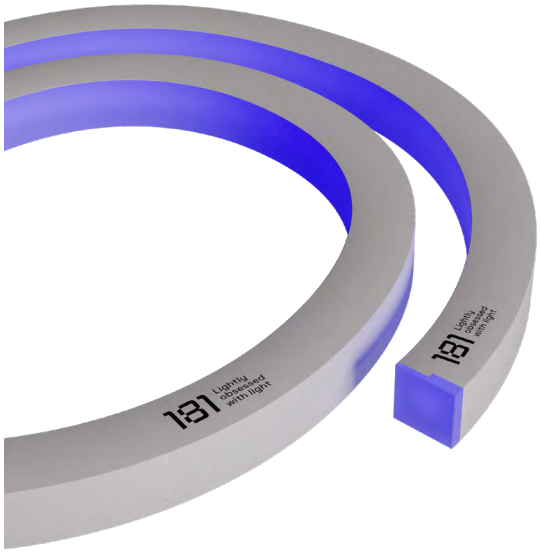
Neonflex Top Bend RGB 24V is a flexible linear lighting solution for clean, continuous lines of dynamic light in architectural applications. With top-bend flexibility, it smoothly navigates tight curves, circular forms, and contours. Ideal for curved facades, circular features, and artistic installations requiring lateral bending.

Engineered for reliable outdoor performance, it delivers consistent white illumination through PWM control with CRI ≥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.

↘ 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.

CE RoHS UL IP68 IK08



Specifications

General

Power Consumption (W/m)	13	
Input Voltage (V DC)	24	
LEDs (/m)	1313	84
	1616/1717 3027/2219	72
LED Pitch (mm)	1313	11,90
	1616/1717 3027/2219	13,89
Color Range	RGB	
Beam Angle (°)	1313/1616/2219	120
	1717	210
	3027	270
LEDs (/segment)	1313	7
	1616/1717 3027/2219	6
Control	PWM	

Installation Conditions & Lighting Data

Segment Length (mm)	83,3		
Bending Radius (mm)	1313	80	
	1616/1717	120	
	3027/2219	400	
Maximum Run Length (m)		Single Feed	Double Feed
	1313	5	10
	1616/1717 3027/2219	10	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
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)	1313	0,40
	1616	0,45
	1717	0,45
	3027	0,60
	2219	0,60
Dimensions WxH (mm)	1313	13,5 x 13,5
	1616	16,5 x 16,5
	1717	16,5 x 16,5
	3027	30 x 28
	2219	22 x 19

Options

Color/CCT

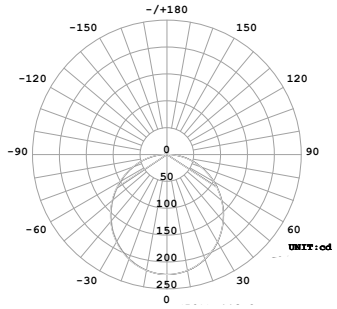
☐ RGB

Lighting Specifications

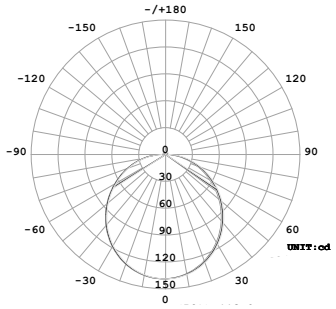
Neonflex Top Bend

	Full RGB (lm/m)	Red (lm/m)	Green (lm/m)	Blue (lm/m)
1313 RGB				
1616 RGB				
1717 RGB	286	65	190	38
3027 RGB				
2219 RGB				

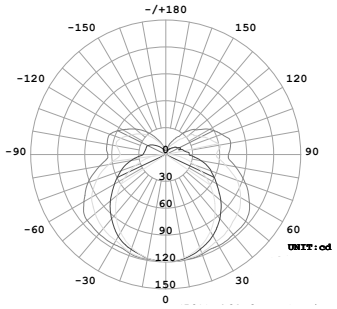
Photometric Distribution



1313 - 113.2° Average Beam Angle

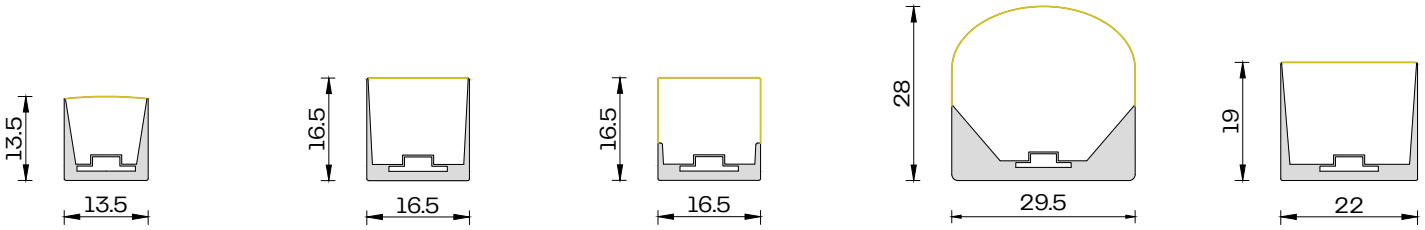


1616 - 113.0° Average Beam Angle



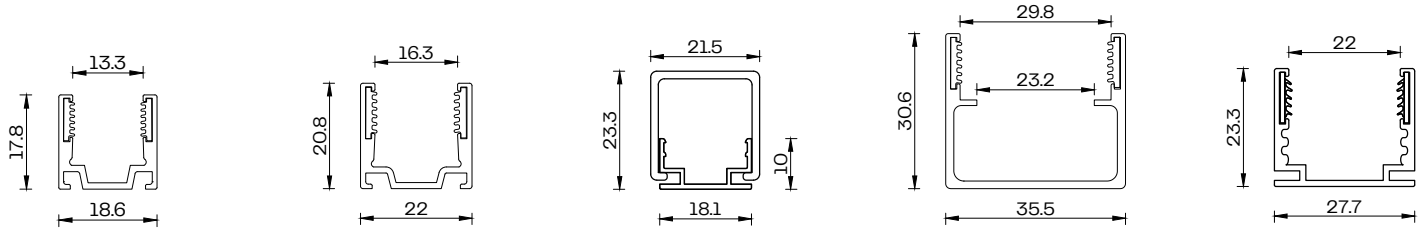
1717 - 164.6° Average Beam Angle

Dimensions



1313 1616 1717 3027 2219

Accessory Options



1313[1]
Straight Profile
Clip Profile
Straight Profile Cable Duct
Curved Profile
Curved Profile Cable Duct

1616[1]
Straight Profile
Clip Profile
Straight Profile Cable Duct
Straight Profile Recessed
Straight Profile Transparent
Curved Profile
Recessed Profile End Cap

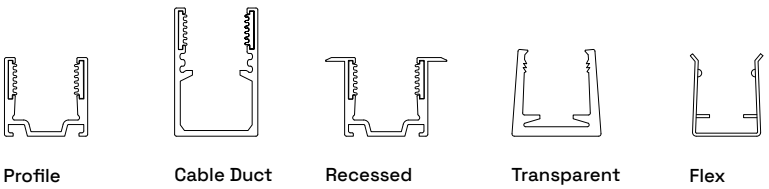
1717[1]
Straight Profile
Clip Profile
Straight Profile Transparent

3027[1]
Straight Profile
Clip Profile
Curved Profile

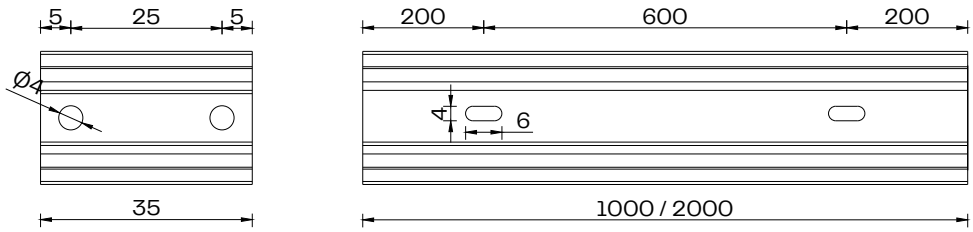
2219[1]
Straight Profile
Clip Profile
Straight Profile Cable Duct
Curved Profile

[1]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



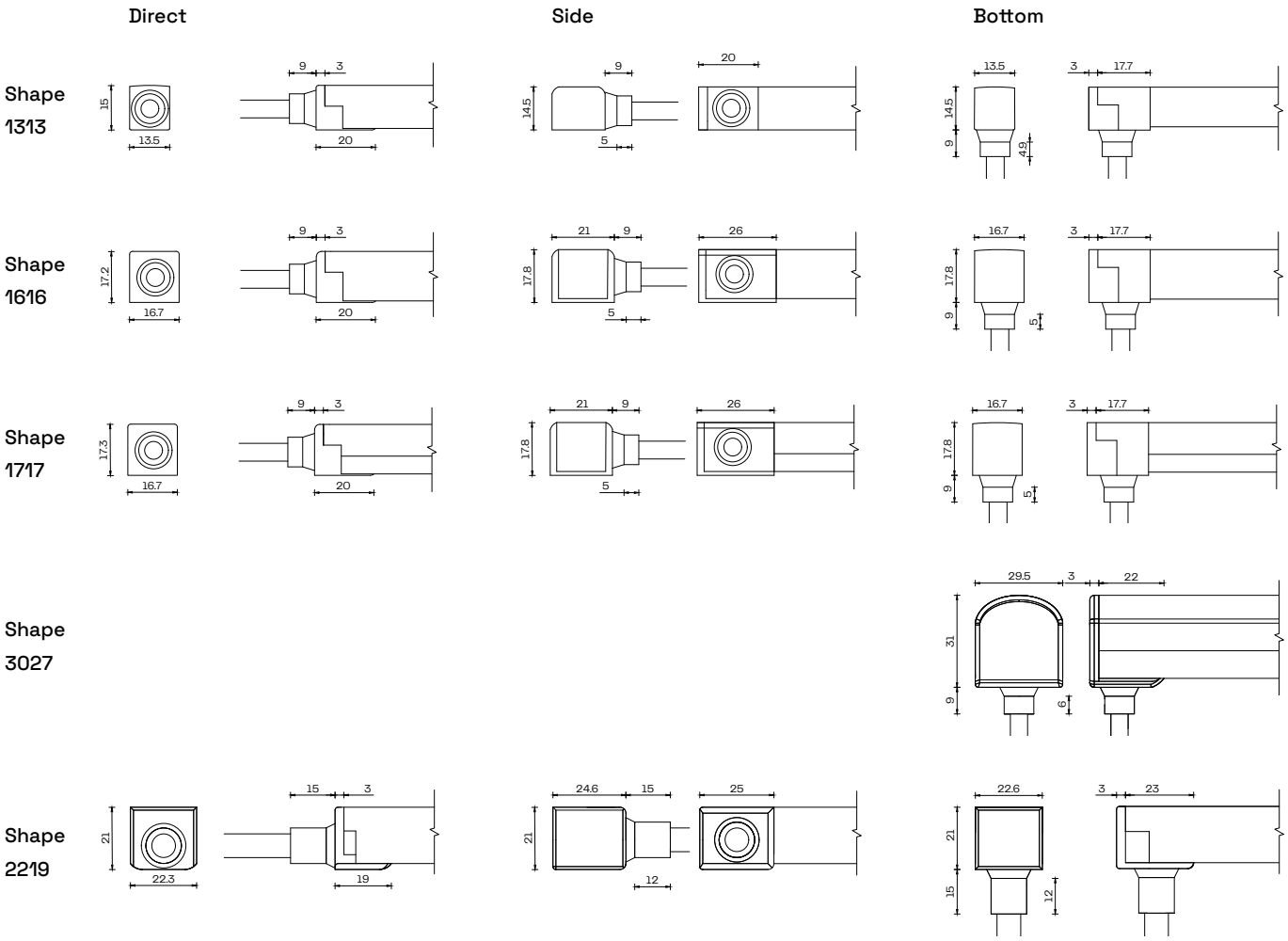
Clip Profile Mounting Profile[1]

[1]1000mm profile is standard. 2000mm is available to order.

Physical

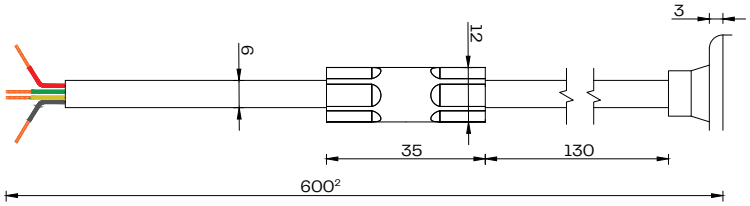
Profile Material	Aluminum Alloy 6063
Transparent Profile Material	Polycarbonate
Aluminum Profile finish	Blank Anodized

Cable Entry Options



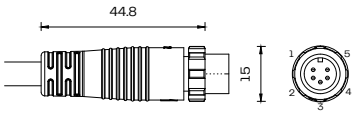
Connection Options

Multi Color RGB Bare Wires with waterstop[1]

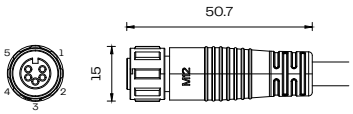


Wire Color	
Red	24 V+
Green	Green
Yellow	Red
Black	Blue

M12 Male Connector[3]



M12 Female Connector



Connector Pin		
Pin 1	Red	24 V+
Pin 2	Green	Green
Pin 3	White	NC
Pin 4	Yellow	Red
Pin 5	Black	Blue

[1]Removing the waterstop will void the warranty.
[2]600 mm cable length is standard. Custom length is available on request.
[3]When opting for M12 connector the cable including connector is 300 mm.

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Product References

Neonflex

Reference	Description
3171367	Neonflex Top Bend 1313 RGB
3171368	Neonflex Top Bend 1616 RGB
3171369	Neonflex Top Bend 1717 RGB
3171370	Neonflex Top Bend 3027 RGB
3171371	Neonflex Top Bend 2219 RGB

Accessories

Straight Profiles

Reference	Description
3167903	Neonflex 1313 Straight Profile 1000
3167925	Neonflex 1313 Straight Profile 2000
3167933	Neonflex 1313 Clip Profile
3167962	Neonflex 1313 Straight Profile Cable Duct 1000
3167963	Neonflex 1313 Straight Profile Cable Duct 2000
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
3167916	Neonflex Top Bend 1313 Curved Profile 1000
3167941	Neonflex Top Bend 1313 Curved Profile 2000
3167951	Neonflex Top Bend 1313 Curved Profile Cable Duct 1000
3167952	Neonflex Top Bend 1313 Curved Profile Cable Duct 2000
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

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