

Neonflex Side Bend

Multi Color RGBW 24V

181

Neonflex Side Bend RGBW 24V 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.

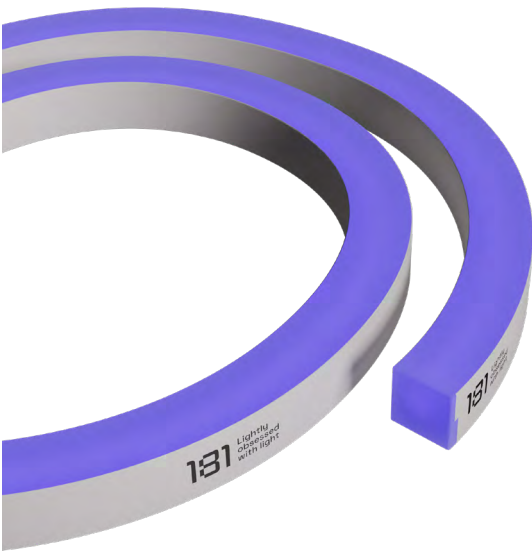
CE

RoHS

UL

IP68

IK08



Specifications

General		
Power Consumption (W/m)	17	
Input Voltage (V DC)	24	
LEDs (/m)	72	
LED Pitch (mm)	13,89	
Color Range	RGBW	
Beam Angle (°)	1121/1616/2222	120
	1128	270
LEDs Segment	6	
CRI	≥80, ≥90	
Control	PWM	

Installation Conditions & Lighting Data		
Segment Length (mm)	83,3	
Bending Radius (mm)	1121/1128	80
	1616	120
	2222	400
Maximum Run Length (m)	8	
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)	1121/1616	0,45
	1128	0,55
	2222	0,60
Dimensions WxH (mm)	1121	11,5 x 21
	1616	16,5 x 16,5
	1128	11,5 x 28
	2222	22,4 x 22,6

Options

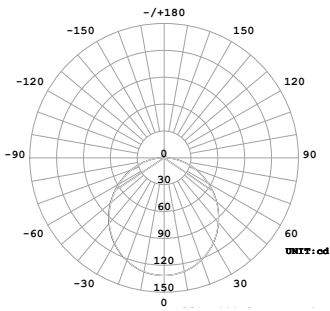
Color/CCT	
☐	RGBW2700K
☐	RGBW3000K
☐	RGBW4000K
☐	RGBW5000K

Lighting Specifications

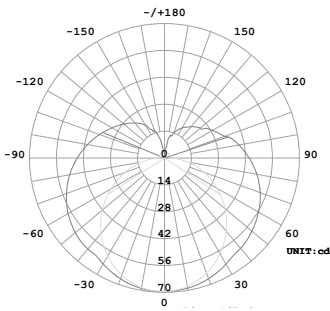
Neonflex Side Bend

	Full RGBW (lm/m)	Red (lm/m)	Green (lm/m)	Blue (lm/m)	White (lm/m)
1121 RGBW2700K					
1121 RGBW3000K					
1121 RGBW4000K					
1121 RGBW5000K					
1616 RGBW2700K					
1616 RGBW3000K					
1616 RGBW4000K					
1616 RGBW5000K					
1128 RGBW2700K					
1128 RGBW3000K					
1128 RGBW4000K					
1128 RGBW5000K					
2222 RGBW2700K					
2222 RGBW3000K					
2222 RGBW4000K					
2222 RGBW5000K					

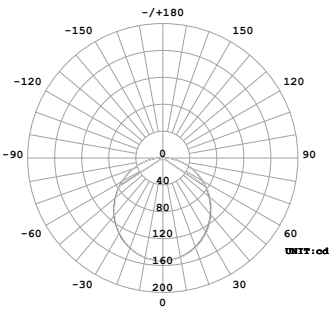
Photometric Distribution



1121 - 111.9° Average Beam Angle

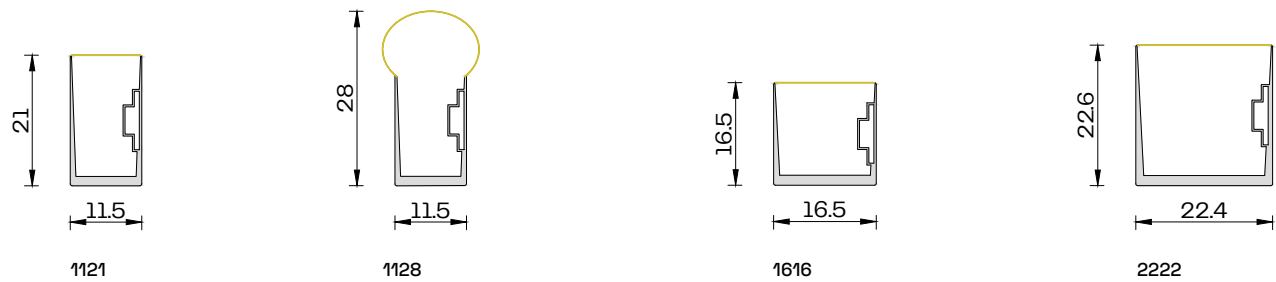


1128 - 167.6° Average Beam Angle

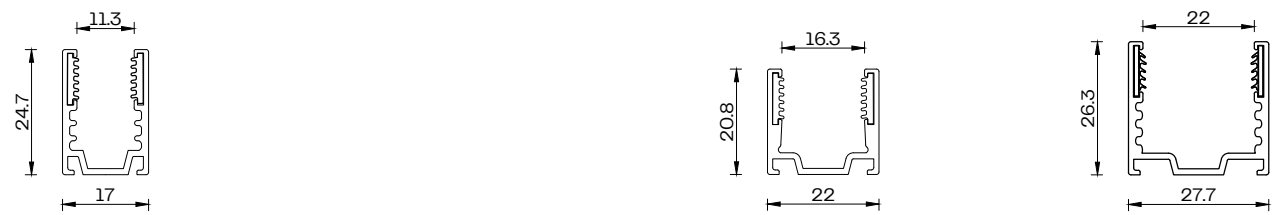


1616 - 113.1° Average Beam Angle

Dimensions



Accessory Options



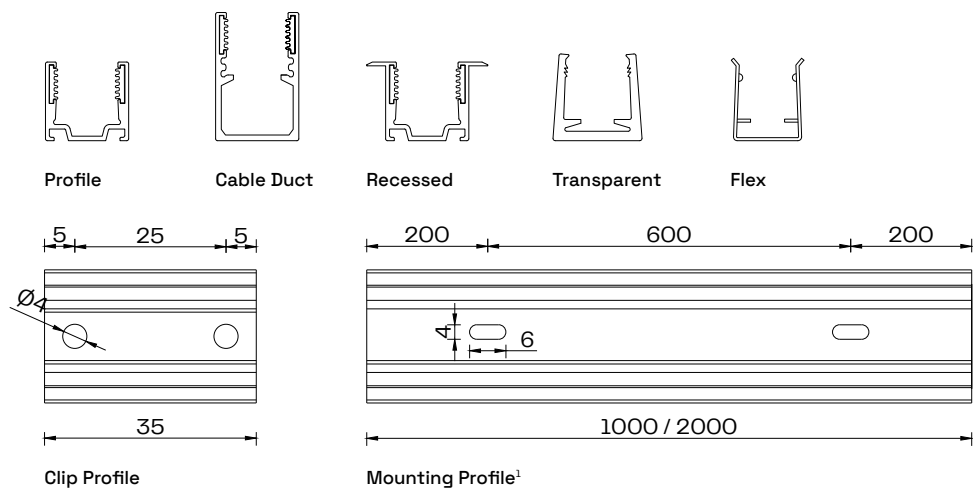
1121 / 1128 ¹
Straight Profile
Clip Profile
Straight Profile Cable Duct
Straight Profile Transparent
Curved Profile

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

2222 ¹
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.

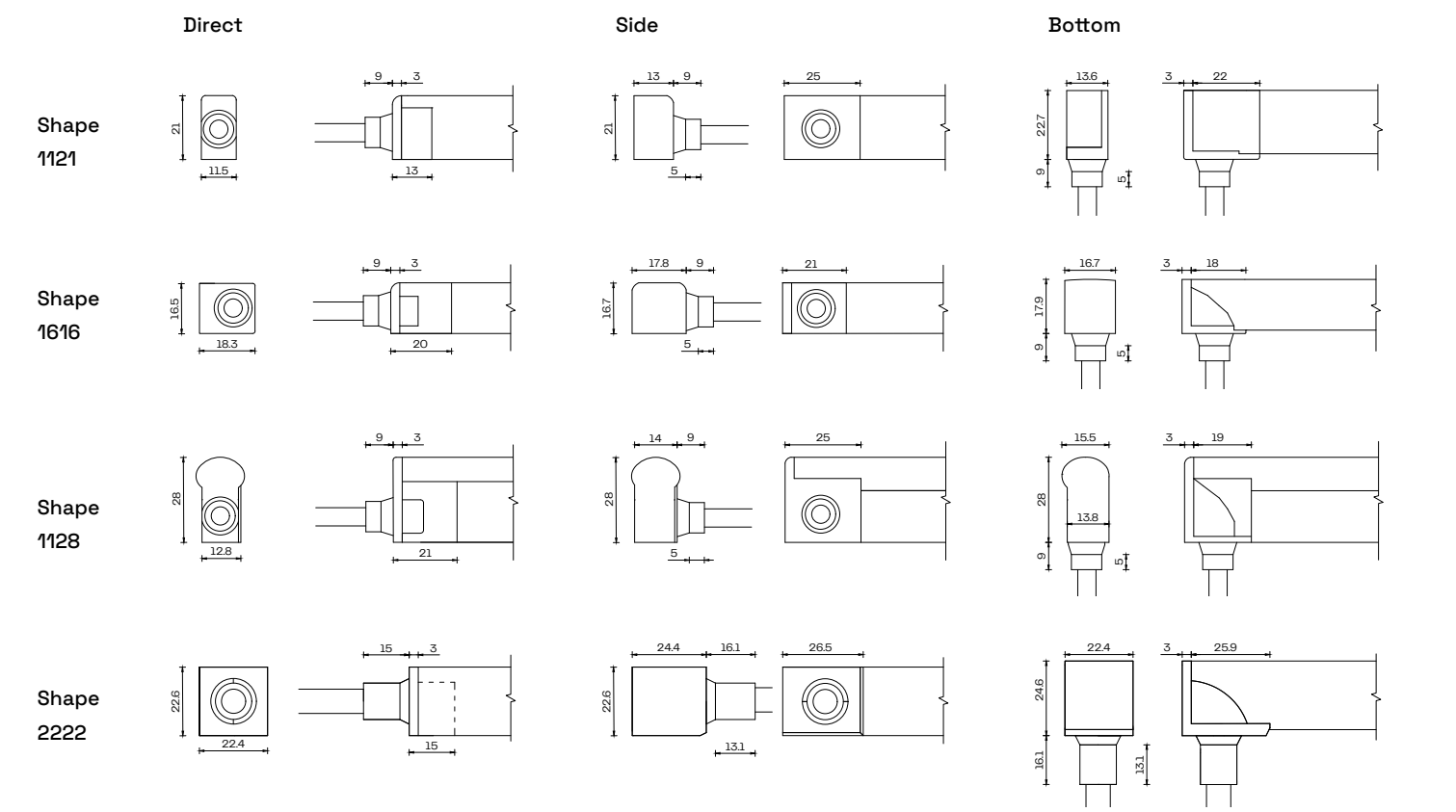
Profile Specifications



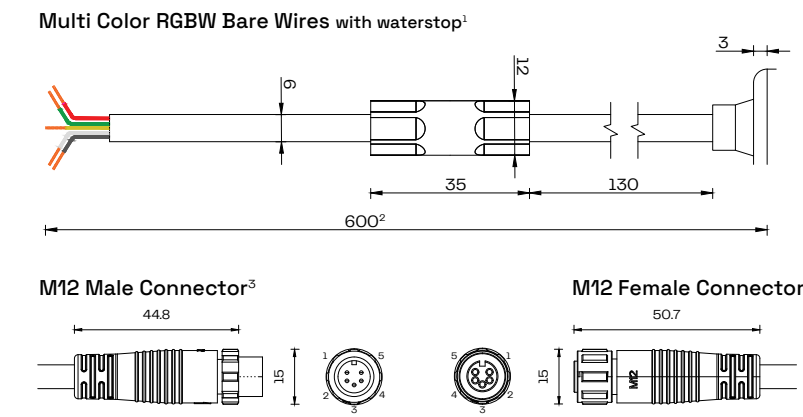
¹1000mm profile is standard. 2000mm is available to order.

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

Cable Entry Options



Connection Options



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

Connector Pin		
Pin 1	Red	24 V+
Pin 2	Green	Green
Pin 3	Yellow	Red
Pin 4	White	White
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
3171543	Neonflex Side Bend 1121 RGBW2700K
3171544	Neonflex Side Bend 1121 RGBW3000K
3171545	Neonflex Side Bend 1121 RGBW4000K
3171546	Neonflex Side Bend 1121 RGBW5000K
3167377	Neonflex Side Bend 1128 RGBW2700K
3171536	Neonflex Side Bend 1128 RGBW3000K
3171537	Neonflex Side Bend 1128 RGBW4000K
3171538	Neonflex Side Bend 1128 RGBW5000K
3171539	Neonflex Side Bend 1616 RGBW2700K
3171540	Neonflex Side Bend 1616 RGBW3000K
3171541	Neonflex Side Bend 1616 RGBW4000K
3171542	Neonflex Side Bend 1616 RGBW5000K
3171547	Neonflex Side Bend 2222 RGBW2700K
3171548	Neonflex Side Bend 2222 RGBW3000K
3171549	Neonflex Side Bend 2222 RGBW4000K
3171550	Neonflex Side Bend 2222 RGBW5000K

Accessories

Straight Profiles

Reference	Description
3167905	Neonflex 1121/1128 Straight Profile 1000
3167929	Neonflex 1121/1128 Straight Profile 2000
3167939	Neonflex 1121/1128 Clip Profile
3167964	Neonflex 1121/1128 Straight Profile Cable Duct 1000
3167965	Neonflex 1121/1128 Straight Profile Cable Duct 2000
3167966	Neonflex 1121/1128 Straight Profile Transparent
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
3167970	Neonflex 2222 Straight Profile 1000
3167971	Neonflex 2222 Straight Profile 2000
3167972	Neonflex 2222 Clip Profile
3167973	Neonflex 2222 Straight Profile Cable Duct 1000
3167974	Neonflex 2222 Straight Profile Cable Duct 2000

Curved Profiles

Reference	Description
3167919	Neonflex Side Bend 1121/1128 Curved Profile 1000
3167946	Neonflex Side Bend 1121/1128 Curved Profile 2000
3167917	Neonflex Side Bend 1616 Curved Profile 1000
3167931	Neonflex Side Bend 1616 Curved Profile 2000
3167955	Neonflex Side Bend 1616 Curved Profile Cable Duct 1000
3167956	Neonflex Side Bend 1616 Curved Profile Cable Duct 2000
3167957	Neonflex Side Bend 2222 Curved Profile 1000
3167980	Neonflex Side Bend 2222 Curved Profile 2000