

Neonflex Side Bend

Multi Color RGBW 48V

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Neonflex Side Bend RGBW 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.

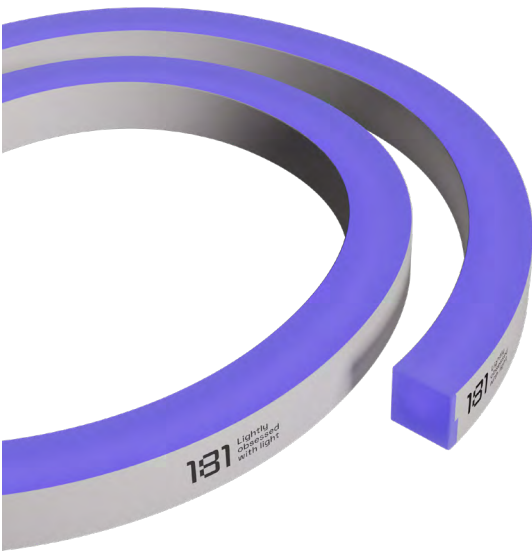
CE

RoHS

UL

IP68

IK08



Specifications

General		
Power Consumption (W/m)	20	
Input Voltage (V DC)	48	
LEDs (/m)	84	
LED Pitch (mm)	11,90	
Color Range	RGBW	
Beam Angle (°)	1121/1616/2222	120
	1128	270
LEDs Segment	14	
CRI	≥80, ≥90	
Control	PWM	

Installation Conditions & Lighting Data		
Segment Length (mm)	167	
Bending Radius (mm)	1121/1128	80
	1616	150
	2222	400
Maximum Run Length (m)	1121/1128 1616	14
	2222	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)	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

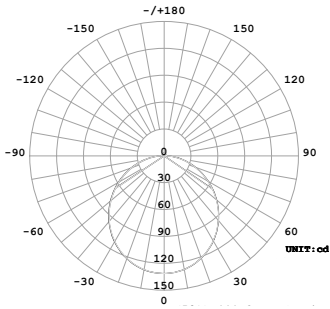
Color/CCT	
☐	RGBW2700K
☐	RGBW3000K
☐	RGBW4000K
☐	RGBW5000K

Lighting Specifications

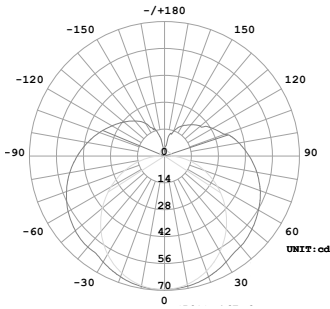
Neonflex Side Bend

	Full RGBW (lm/m)	Red (lm/m)	Green (lm/m)	Blue (lm/m)	White (lm/m)
1121 48V RGBW2700K					
1121 48V RGBW3000K					
1121 48V RGBW4000K					
1121 48V RGBW5000K					
1616 48V RGBW2700K					
1616 48V RGBW3000K					
1616 48V RGBW4000K					
1616 48V RGBW5000K					
1128 48V RGBW2700K					
1128 48V RGBW3000K					
1128 48V RGBW4000K					
1128 48V RGBW5000K					
2222 48V RGBW2700K					
2222 48V RGBW3000K					
2222 48V RGBW4000K					
2222 48V RGBW5000K					

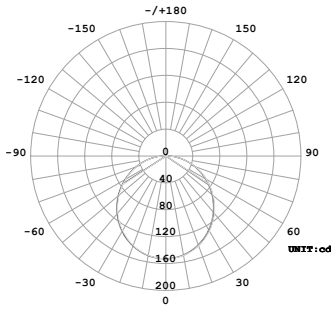
Photometric Distribution



1121 - 111.9° Average Beam Angle

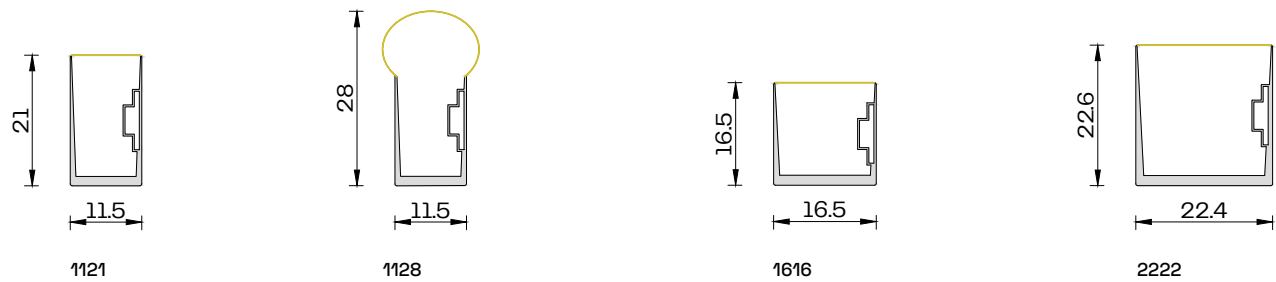


1128 - 167.6° Average Beam Angle

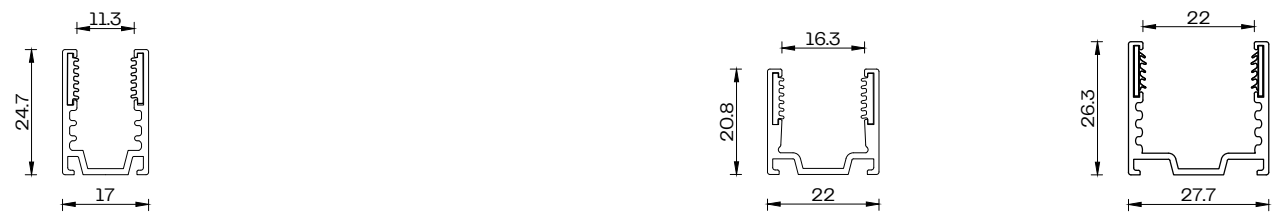


1616 - 113.1° Average Beam Angle

Dimensions



Accessory Options



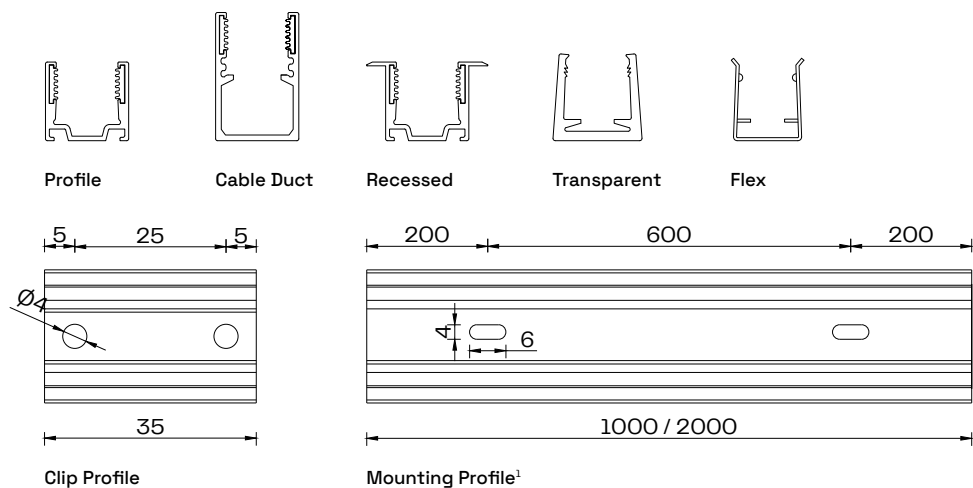
1121 / 1128 ¹
Straight Profile
Clip Profile
Straight Profile Cable Duct
Straight Profile Transparent
Curved Profile

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.

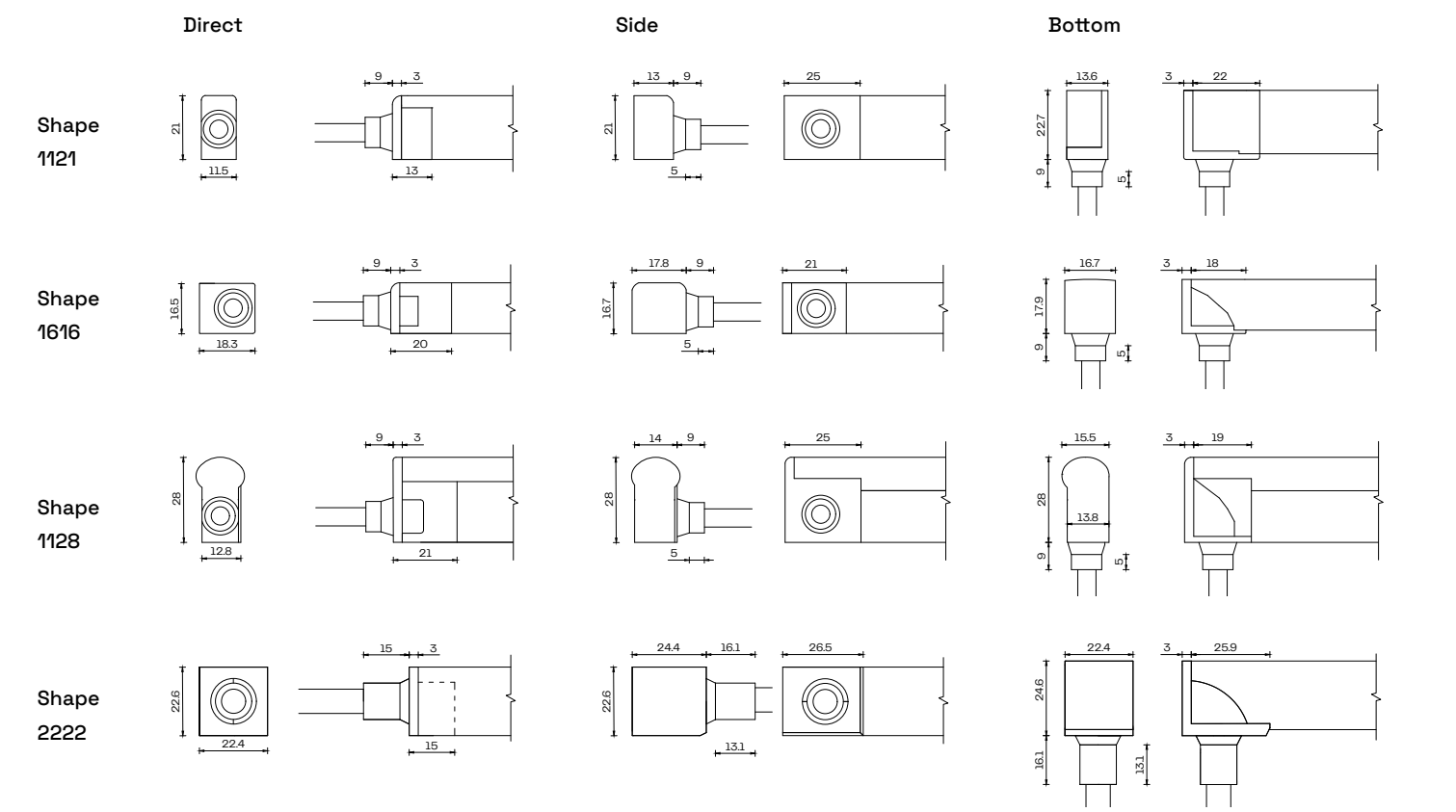
Profile Specifications



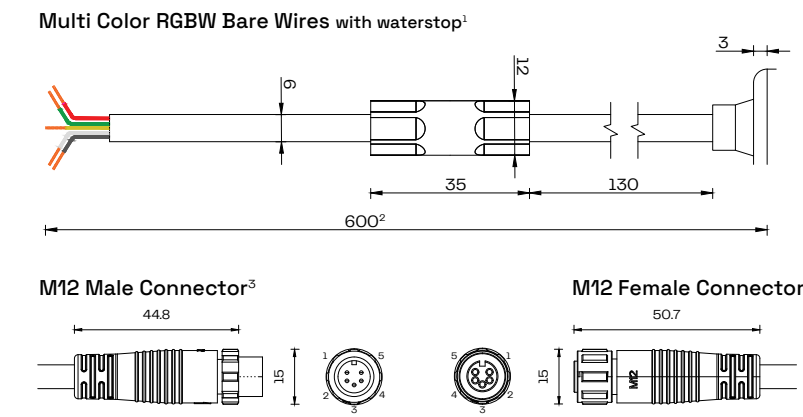
¹1000mm profile is standard. 2000mm is available to order.

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

Cable Entry Options



Connection Options



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.

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

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

Product References

Neonflex

Reference	Description
3171551	Neonflex Side Bend 1121 48V RGBW2700K
3171552	Neonflex Side Bend 1121 48V RGBW3000K
3171553	Neonflex Side Bend 1121 48V RGBW4000K
3171554	Neonflex Side Bend 1121 48V RGBW5000K
3171555	Neonflex Side Bend 1616 48V RGBW2700K
3171556	Neonflex Side Bend 1616 48V RGBW3000K
3171557	Neonflex Side Bend 1616 48V RGBW4000K
3171558	Neonflex Side Bend 1616 48V RGBW5000K
3171559	Neonflex Side Bend 1128 48V RGBW2700K
3171560	Neonflex Side Bend 1128 48V RGBW3000K
3171561	Neonflex Side Bend 1128 48V RGBW4000K
3171562	Neonflex Side Bend 1128 48V RGBW5000K
3171563	Neonflex Side Bend 2222 48V RGBW2700K
3171564	Neonflex Side Bend 2222 48V RGBW3000K
3171565	Neonflex Side Bend 2222 48V RGBW4000K
3171566	Neonflex Side Bend 2222 48V 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