

Neonflex Side Bend

Tunable White 24V

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Neonflex Side Bend Tunable White 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)	12	
Input Voltage (V DC)	24	
LEDs (/m)	120	
LED Pitch (mm)	8,33	
Color Range	Tunable White	
Beam Angle (°)	0816/1121/1616/2222	120
	1128	270
LEDs Segment	12	
CRI	≥80, ≥90	
Control	PWM	

Installation Conditions & Lighting Data		
Segment Length (mm)	100	
Bending Radius (mm)	0816/1121/1128	80
	1616	150
	2222	400
Maximum Run Length (m)	0816	8
	1112/1128	10
	1616/2222	
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)	0816	0,40
	1121/1616	0,45
	1128	0,55
	2222	0,60
Dimensions WxH (mm)	0816	8 x 16
	1121	11,5 x 21
	1616	16,5 x 16,5
	1128	11,5 x 28
	2222	22,4 x 22,6

Options

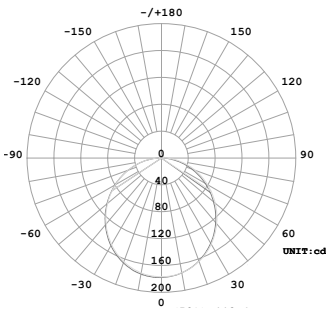
Color/CCT	
☐	2200K-5700K
☐	2700K-5700K
☐	3000K-5700K

Lighting Specifications

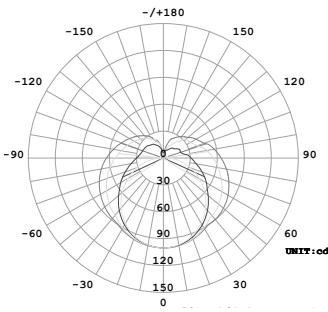
Neonflex Side Bend

	Full White (lm/m)	Warm White (lm/m)	Cold White (lm/m)
0816 Tunable White 2200-5700K			
0816 Tunable White 2700-5700K			
0816 Tunable White 3000-5700K			
1121 Tunable White 2200-5700K	536	251	296
1121 Tunable White 2700-5700K			
1121 Tunable White 3000-5700K			
1616 Tunable White 2200-5700K			
1616 Tunable White 2700-5700K			
1616 Tunable White 3000-5700K			
1128 Tunable White 2200-5700K	578	269	320
1128 Tunable White 2700-5700K	593	298	308
1128 Tunable White 3000-5700K			
2222 Tunable White 2200-5700K			
2222 Tunable White 2700-5700K			
2222 Tunable White 3000-5700K			

Photometric Distribution

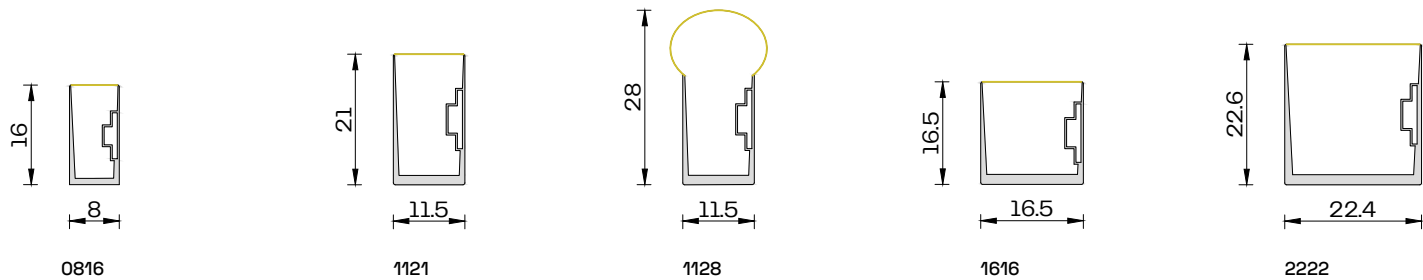


1121 - 112.1° Average Beam Angle



1128 - 164.2° Average Beam Angle

Dimensions



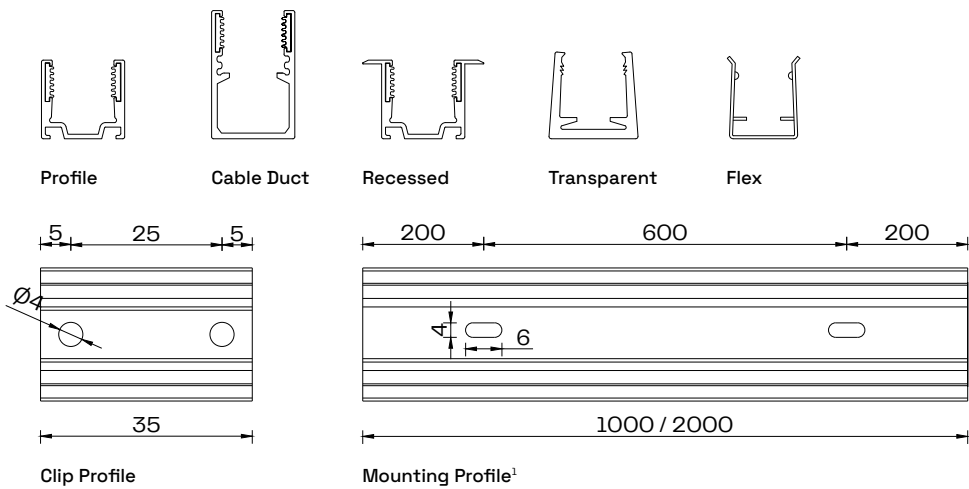
Accessory Options



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

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

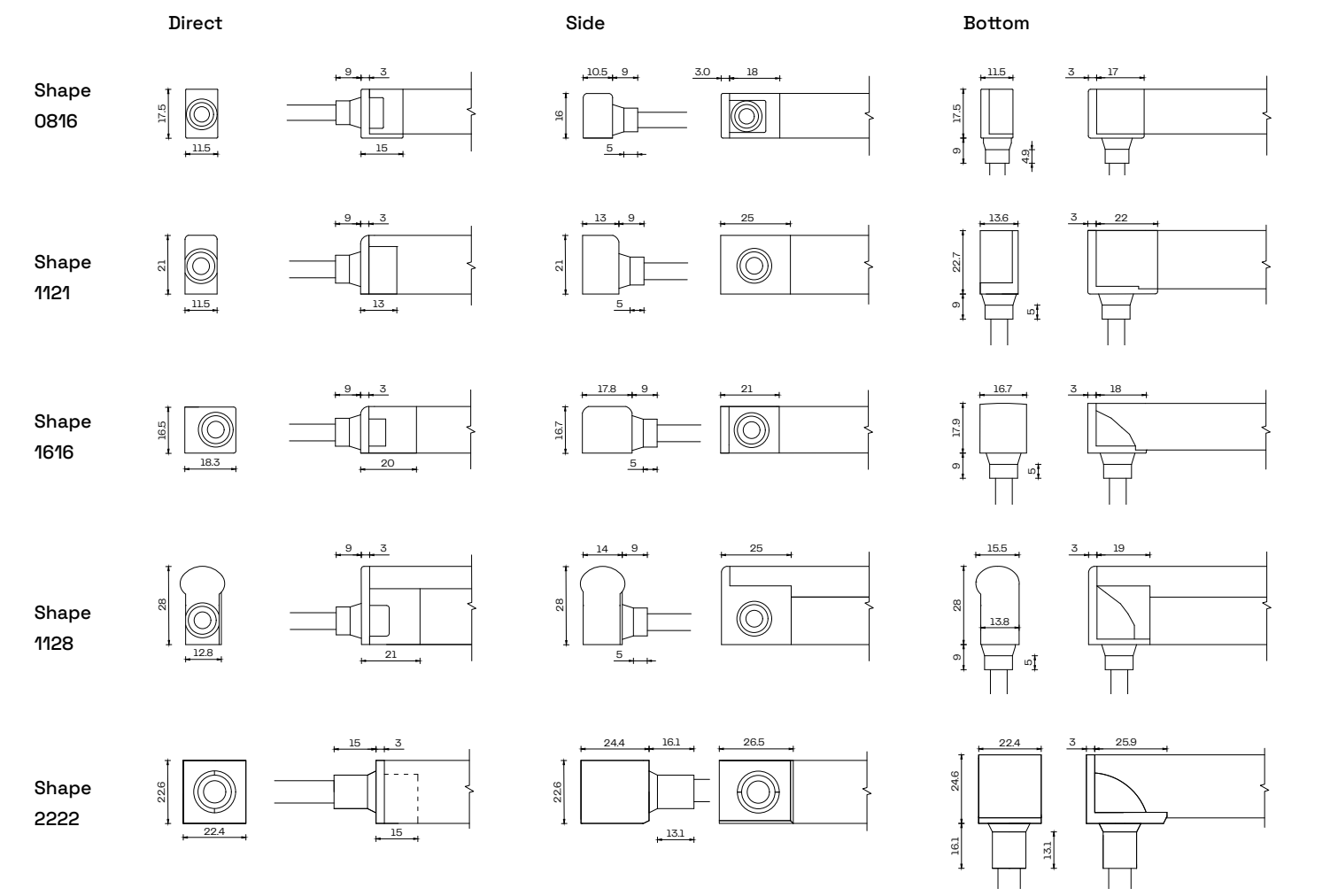
Profile Specifications



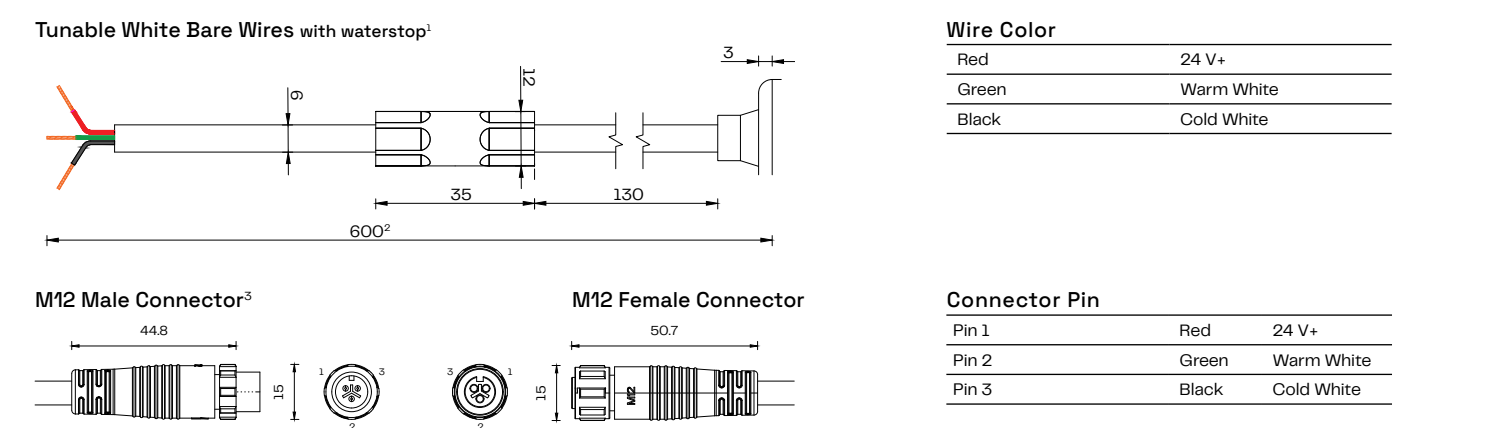
¹1000mm profile is standard. 2000mm is available to order.

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.

Product References

Neonflex

Reference	Description
3171421	Neonflex Side Bend 0816 Tunable White 2200-5700K
3171422	Neonflex Side Bend 0816 Tunable White 2700-5700K
3171423	Neonflex Side Bend 0816 Tunable White 3000-5700K
3171409	Neonflex Side Bend 1121 Tunable White 2200-5700K
3171410	Neonflex Side Bend 1121 Tunable White 2700-5700K
3171411	Neonflex Side Bend 1121 Tunable White 3000-5700K
3171415	Neonflex Side Bend 1616 Tunable White 2200-5700K
3171416	Neonflex Side Bend 1616 Tunable White 2700-5700K
3171417	Neonflex Side Bend 1616 Tunable White 3000-5700K
3171412	Neonflex Side Bend 1128 Tunable White 2200-5700K
3171413	Neonflex Side Bend 1128 Tunable White 2700-5700K
3171414	Neonflex Side Bend 1128 Tunable White 3000-5700K
3171418	Neonflex Side Bend 2222 Tunable White 2200-5700K
3171419	Neonflex Side Bend 2222 Tunable White 2700-5700K
3171420	Neonflex Side Bend 2222 Tunable White 3000-5700K

Accessories

Straight Profiles

Reference	Description
3167901	Neonflex 0816 Straight Profile 1000
3167928	Neonflex 0816 Straight Profile 2000
3167936	Neonflex 0816 Clip Profile
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
3167914	Neonflex Side Bend 0816 Curved Profile 1000
3167945	Neonflex Side Bend 0816 Curved Profile 2000
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