

AURORA BOREALE

Expand your Brightness



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www.ablighting.ae

ABTECH Lighting Solutions

NEON FLEX

DATASHEET 16×17 IP68

VERTICAL BEND Neon Flex



NEON FLEX

16×17 - VERTICAL BEND

Description

Architectural vertical-bending neon flex designed for continuous linear illumination in indoor, outdoor, and underwater lighting applications. The flexible PVC extrusion construction provides smooth dot-free illumination with extended run capability, high environmental resistance, and reliable performance for architectural and decorative installations.

APPLICATIONS

- Architectural lighting
- Landscape lighting
- Underwater lighting
- Cove lighting
- Façade detailing
- Decorative linear lighting

PRODUCT RANGE

Working Mode	Power	Voltage	LED Density	CRI	IP Rating	Cut Length	Max. Run Length
CV	6W/m	24V DC	108 LED/m	>80	IP68	55.5 mm	20 m
CV	7.8W/m	24V DC	108 LED/m	>80	IP68	83.3 mm	14 m
CV	9W/m	24V DC	108 LED/m	>80	IP68	55.5 mm	12 m
CV	13W/m	24V DC	108 LED/m	>80	IP68	55.5 mm	10 m
CV	13W/m	24V DC	120 LED/m	>80	IP68	50 mm	10 m
CC	6W/m	24V DC	108 LED/m	>80	IP68	55.5 mm	25 m
CC	7.8W/m	24V DC	108 LED/m	>80	IP68	83.3 mm	18 m
CC	9W/m	24V DC	108 LED/m	>80	IP68	55.5 mm	17 m
CC	12W/m	24V DC	108 LED/m	>80	IP68	55.5 mm	15 m
CC	15.5W/m	24V DC	108 LED/m	>80	IP68	55.5 mm	13 m

Key Feature

- **Uniform**
dot-free illumination
- **Flexible**
vertical-bending design
- **Extended single-end**
run capability
- **IP68**
underwater protection
- **UV and flame**
resistant construction
- **Suitable for**
indoor and outdoor applications

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MECHANICAL SPECIFICATIONS

Product Size	16 × 17 mm
Bend Type	Vertical Bend
Minimum Bend Diameter	Ø300 mm
Material	PVC Extrusion

ELECTRICAL SPECIFICATIONS

Input Voltage	24V Constant Voltage / 24V Constant Current
Power Range	6W/m - 15.5W/m
Working Modes	CV / CC
Dimming Compatibility	Supported

LIGHT SOURCE & PERFORMANCE

LED Type	SMD 2835
LED Brand	Epistar
Beam Angle	120°
CRI Options	>80 / R90 / R95
Lighting Effect	Uniform dot-free illumination
Available Colors	2200K - 6500K, Red, Green, Blue
Additional Colors	Yellow, Lemon Yellow, Orange, Amber, Pink, Purple, Turquoise

PROTECTION & ENVIRONMENT

IP Rating	IP68
Underwater Protection	≤ 2 meters
Operating Temperature	-20°C to +45°C
Maximum Surface Temperature	60°C
UV Resistance	☒ ☐
Flame Resistance	☒ ☐
Saltwater Resistance	☒ ☐
Vulcanization Resistance	☒ ☐

LIFETIME

25°C	70,000 Hours L70
50°C	50,000 Hours L70

WARRANTY

5 Years
Warranty

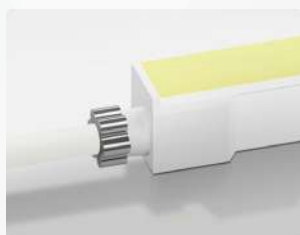


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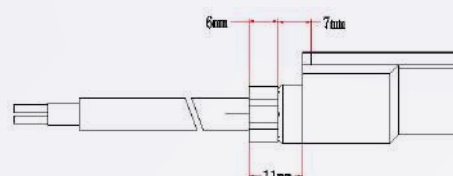
1. Connectors

1.1 IP67 Injection-moulded Connector



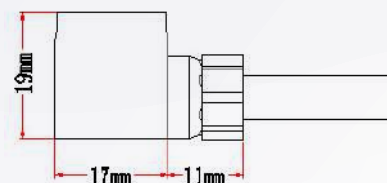
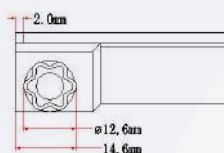
Injection-moulded Front Connector (Direct)

Factory Pre-installed
Cable Output: direct
Standard Cable Length:
0.5m/1m/2m/3m



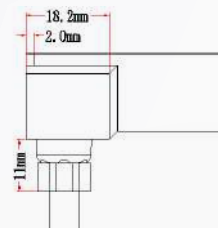
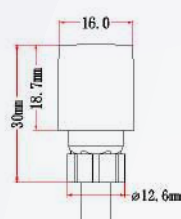
Injection-moulded Front Connector (Side)

Factory Pre-installed
Cable Output: side
Standard Cable Length:
0.5m/1m/2m/3m



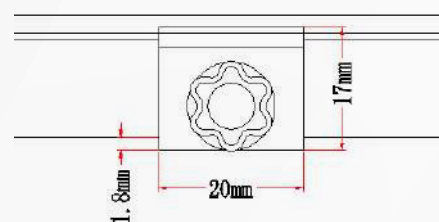
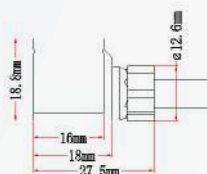
Injection-moulded Front Connector (Bottom)

Factory Pre-installed
Cable Output: bottom
Standard Cable Length:
0.5m/1m/2m/3m



Injection-moulded Middle Connector

Factory Pre-installed
Cable Output: side
Standard Cable Length:
0.5m/1m/2m/3m



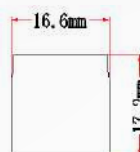
Injection-moulded Middle Jumper

Factory Pre-installed
Cable Output:
direct Standard
Cable Length: 0.2m~2m



Injection-moulded End Cap

Factory Pre-installed



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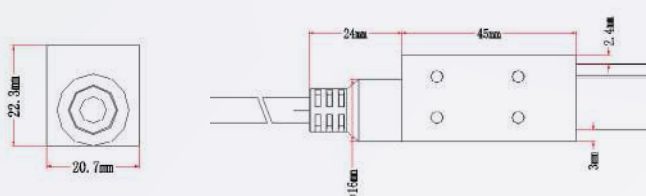
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1.2 IP68 Dual Injection-moulded Connector



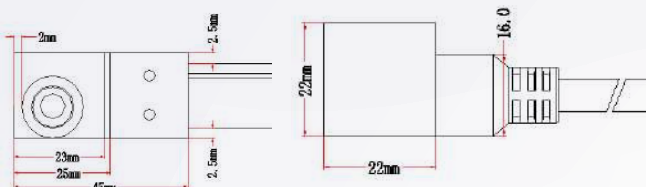
Dual Injection-moulded Front Connector (Direct)

Factory Pre-installed
Cable Output: direct
Standard Cable Length:
0.5m/1m/2m/3m



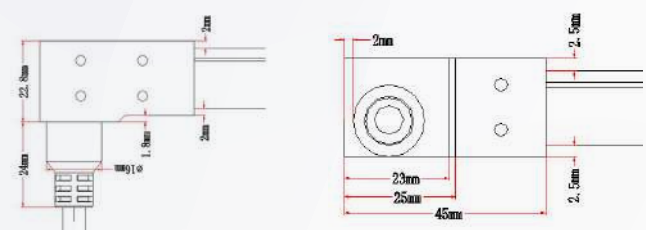
Dual Injection-moulded Front Connector (Side)

Factory Pre-installed
Cable Output: side
Standard Cable Length:
0.5m/1m/2m/3m



Dual Injection-moulded Front Connector (Bottom)

Factory Pre-installed
Cable Output: bottom
Standard Cable Length:
0.5m/1m/2m/3m



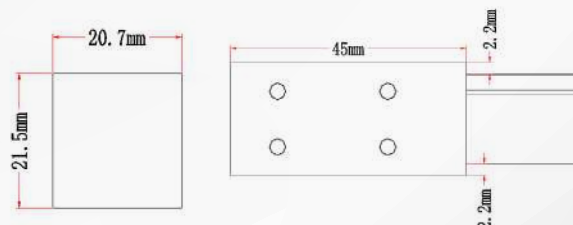
Dual Injection-moulded Middle Jumper

Factory Pre-installed
Cable Output: direct
Standard Cable Length:
0.2m ~ 2m



Dual Injection-moulded End Cap

Factory Pre-installed



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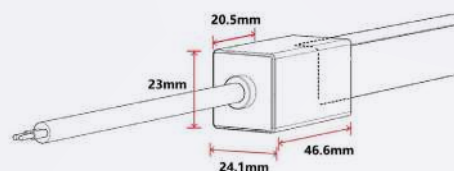
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1.3 DIY Connector



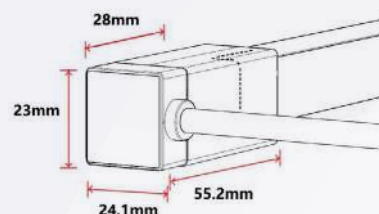
IP67 Sleeve Front Connector (Direct)

DIY type, can be installed on site
Cable Output: direct
Standard Cable Length:
0.5m/1m/2m/3m



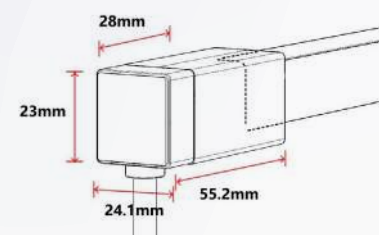
IP67 Sleeve Front Connector (Side)

DIY type, can be installed on site
Cable Output: side
Standard Cable Length:
0.5m/1m/2m/3m



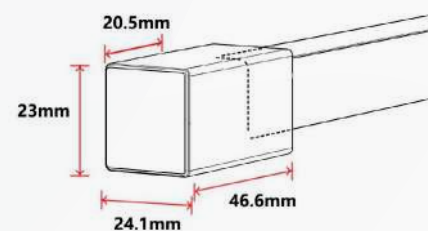
IP67 Sleeve Front Connector (Bottom)

DIY type, can be installed on site
Cable Output: bottom
Standard Cable Length:
0.5m/1m/2m/3m



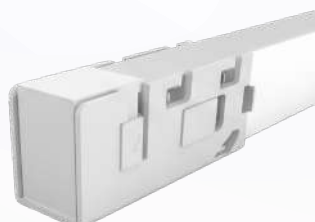
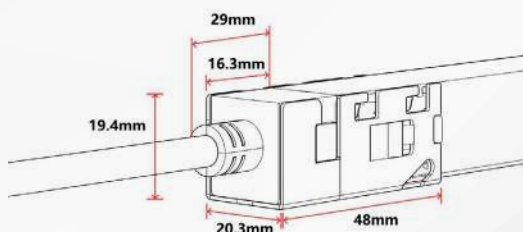
IP67 Sleeve End Cap

DIY type, can be installed on site



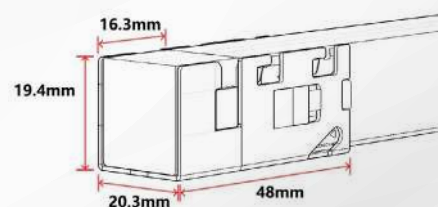
IP65 Clasp Front Connector (Direct)

DIY type, can be installed on site
Cable Output: direct
Standard Cable Length:
0.5m/1m/2m/3m



IP65 Clasp End Cap

DIY type, can be installed on site



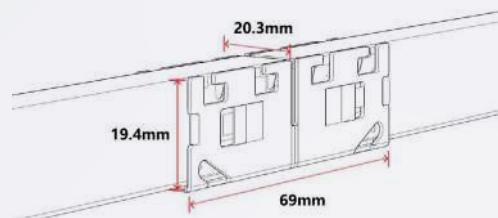
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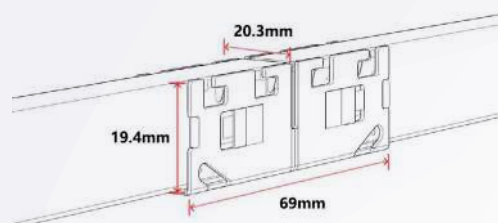
IP65 Seamless Middle Connector

DIY type, can be installed on site
Cable Output: direct
Standard Cable Length:
0.2m~2m



IP65 Seamless Power T-Feed

DIY type, can be installed on site
Cable Output: side
Standard Cable Length:
0.2m~2m

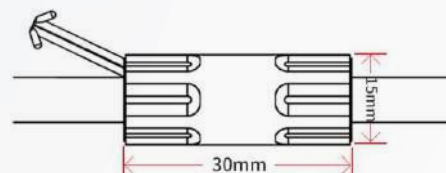


1.4 On Cable Waterproof Connector



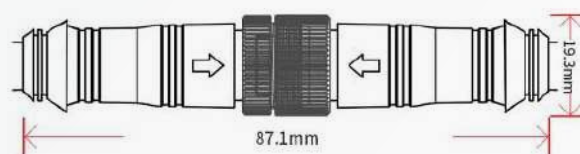
Waterproof Interrupter

The waterproof interrupter is installed on the cable at 120mm from the front connector, which protect against water ingress from inside of cable



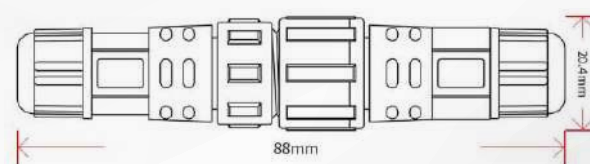
Male & Female Connector

DIY or Pre-installed, IP67
Stand Cable Length:
0.5m/1m/2m/3m
Cable Diameter: Ø6.0mm



Male & Female Connector

DIY or Pre-installed,
IP68 /IP67 optional

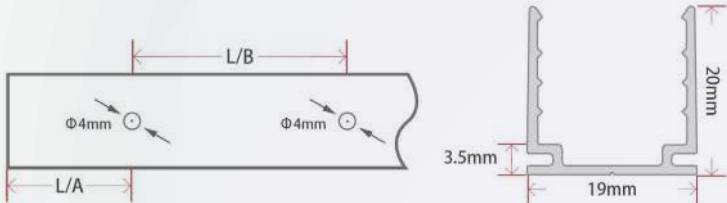
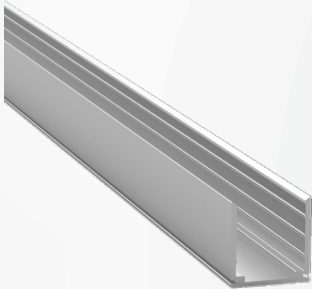


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2. Mounting Profile

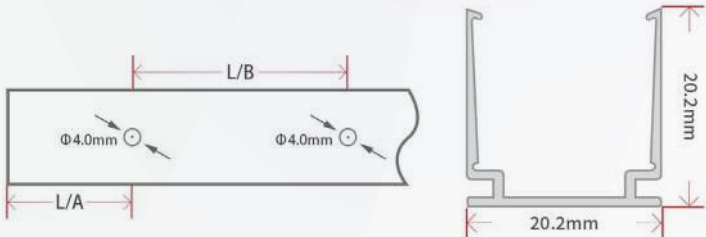
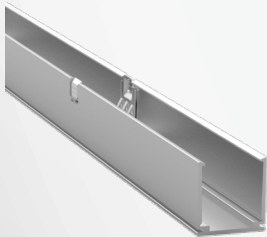
2.1 Standard Aluminum Profile



Max. Installation Angle

W*H	Standard Length	Hole Number	Screw Hole	L/A(mm)	L/B(mm)
19x20mm	50mm	1	ϕ4.0mm	25.5	/
	1000mm	2	ϕ4.0mm	20	60
	2000mm	4	ϕ4.0mm	25	50

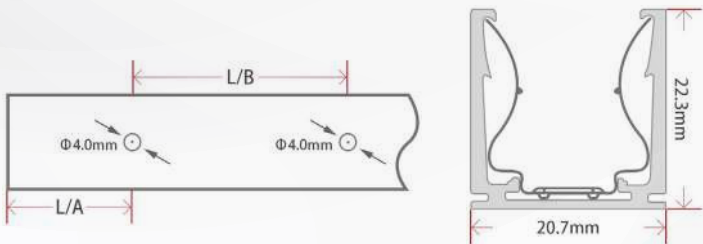
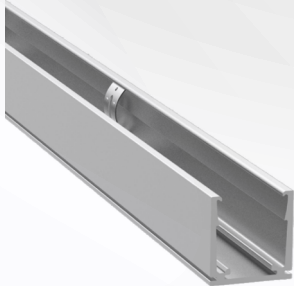
2.2 Self Locking Aluminum Profile



Max. Installation Angle

W*H	Standard Length	Hole Number	Screw Hole	L/A(mm)	L/B(mm)
20.2x20.2mm	50mm	1	ϕ4.0mm	25.5	/
	1000mm	2	ϕ4.0mm	20	60
	2000mm	4	ϕ4.0mm	25	50

2.3 Bounce Locking Aluminum Profile



Max. Installation Angle

W*H	Standard Length	Hole Number	Screw Hole	L/A(mm)	L/B(mm)
20.7x22.3mm	50mm	1	ϕ4.0mm	25.5	/
	1000mm	2	ϕ4.0mm	20	60
	2000mm	4	ϕ4.0mm	25	50

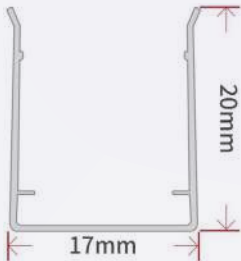
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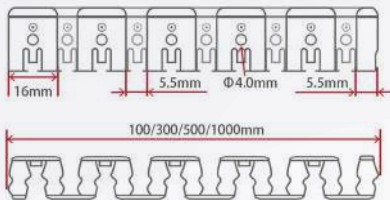
2.4 Bendable Stainless Steel Profile



Max. Installation Angle

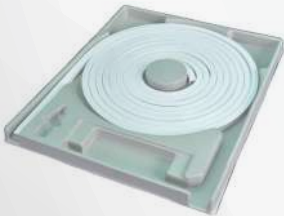


W*H	Standard Length
17x20mm	100mm
	300mm
	500mm
	1000mm



3. Packaging

Blister Plate



White Box



Carton



M Reel



L Reel



Neon Length	Packing Method	White Box Dimension	Carton Dimension	White Box Numbers	Carton Weight
Max. 1m	S Blister Plate + White Box	31x31x4.5cm	/	/	≤0.7kg
Max. 4m	M Blister Plate + White Box + Carton	40x50x4.5cm	41x51x25cm	5	≤11.4kg
Max. 8m	L Blister Plate + White Box + Carton	54x64x4.5cm	55x65x25cm	5	≤21.3kg
Max. 15m	XL Blister Plate + White Box + Carton	68x79x4.5cm	69x80x15.5cm	2	≤16.3kg
Max. 50m	L Reel + Carton	φ45x25cm	47x47x28cm	1	≤21.3kg



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