

# OUTLINER / OUTLINER IP67 SERIES

## Installation Guide

150720



**OUTLINER 20**  
**OUTLINER 20 IP67**



**OUTLINER 30**  
**OUTLINER 30 IP67**



**OUTLINER 40**  
**OUTLINER 40 IP67**



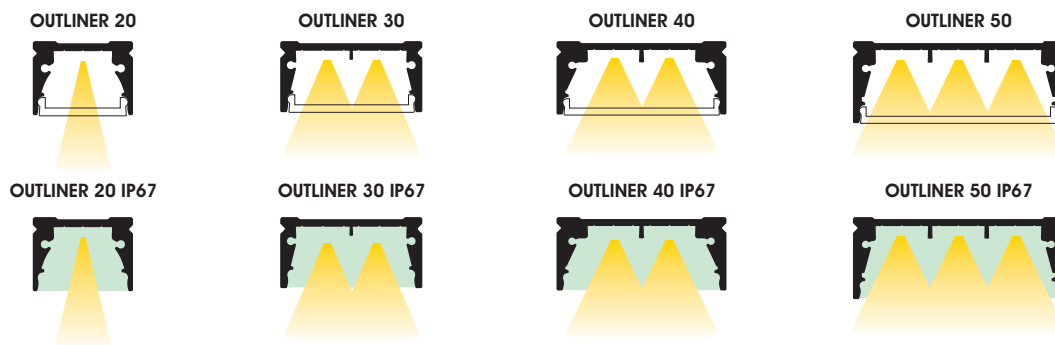
**OUTLINER 50**  
**OUTLINER 50 IP67**



# OUTLINER / OUTLINER IP67 SERIES

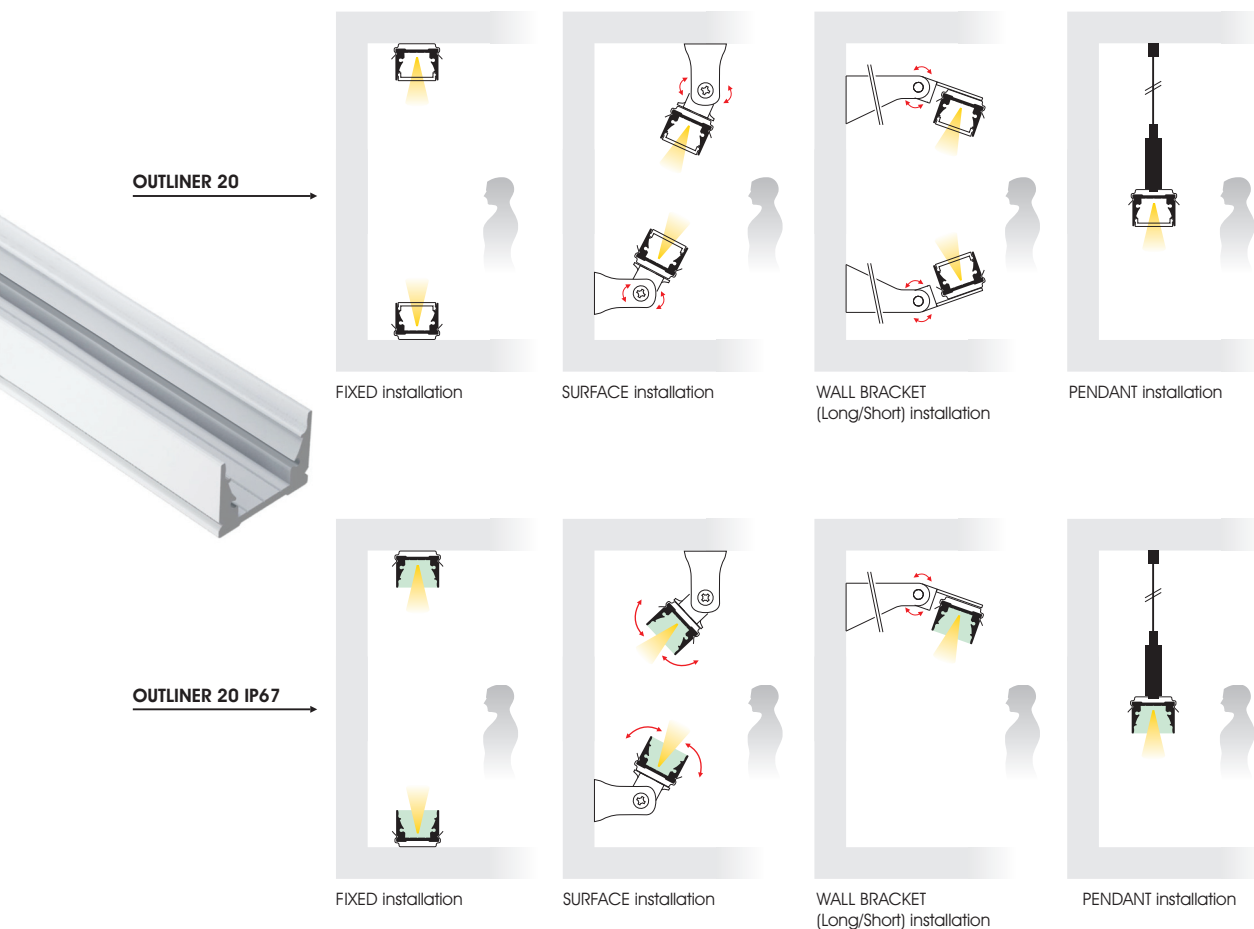
## Mounting Types Installation Guide

The installation guide refer to the following models:



**OUTLINER 20 is presented below as an example.**

Select the mounting type of the luminaire, according to the illustration below and follow the steps for each type.



# OUTLINER / OUTLINER IP67 SERIES

## Quantity of Mounting Components & Antislippers Installation Guide

**Table 1**

Quantity of mounting components for **OUTLINER 20 / OUTLINER 20 IP67**  
Fixed, Surface, Wall Bracket Installations

Length (m)	up tp 1.03	1.04-1.53	1.54-2.03	2.04-2.53	2.54-3.03	3.04-3.53	3.54-4.03
Quantity	2	3	4	5	6	7	8

**Table 2**

Quantity of mounting components for **OUTLINER 30, 40 & 50**  
Fixed, Surface, Wall Bracket Installations

Length (m)	up tp 1.33	1.34-2.03	2.04-2.66	2.67-3.33	3.34-4.03
Quantity	2	3	4	5	6

**Table 3**

Quantity of mounting components for **OUTLINER 30, 40 & 50 IP67**  
Fixed, Surface, Wall Bracket Installations

Length (m)	up tp 1.03	1.04-1.53	1.54-2.03	2.04-2.53	2.54-3.03	3.04-3.53	3.54-4.03
Quantity	2	3	4	5	6	7	8

**Table 4**

Quantity of antislippers for each mounting component for **OUTLINER 20 / OUTLINER 20 IP67**  
Fixed, Surface, Wall Bracket Installations

Type / Length (m)	0-4.03
OUTLINER 20	2
OUTLINER 20 IP67	3

**Table 5**

Quantity of antislippers for each luminaire for **OUTLINER 30 / OUTLINER 30 IP67**  
Fixed, Surface, Wall Bracket Installations

Type / Length (m)	0-4.03
OUTLINER 30	0
OUTLINER 30 IP67	1

**Table 6**

Quantity of antislippers for each luminaire for **OUTLINER 40**  
Fixed, Surface, Wall Bracket Installations

Type / Length (m)	0-2	>2
OUTLINER 40	1	2

**Table 7**

Quantity of antislippers for each mounting component for **OUTLINER 40 IP67**  
Fixed, Surface, Wall Bracket Installations

Type / Length (m)	0-4.03
OUTLINER 40 IP67	1

**Table 8**

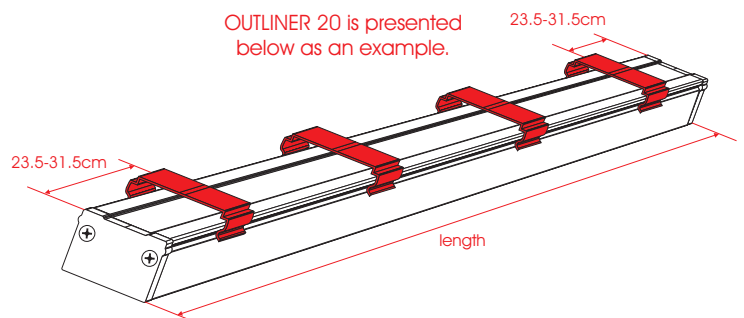
Quantity of antislippers for each luminaire for **OUTLINER 50**  
Fixed, Surface, Wall Bracket Installations

Type / Length (m)	0-2.66	>2.66
OUTLINER 50	2	3

**Table 9**

Quantity of antislippers for each mounting component for **OUTLINER 50 IP67**  
Fixed, Surface, Wall Bracket Installations

Type / Length (m)	0-4.03
OUTLINER 50 IP67	1



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## Mounting Types Installation Guide

OUTLINER 20 is presented below as an example.

### FIXED Installation

**(A)**

Holder ELA.008\*

**Attention**  
Placing the holders on the surface, make sure to be in line.

\* For quantity refer to Tables 1, 2, 3

**(B)**

Push

clip

**(C)**

Connect to the power supply

**OUTLINER**

**OUTLINER IP67**

**Attention**  
For attaching the IP connectors refer to the page 7 of the IP connectors preparation guide.

### SURFACE Installation

**(A)**

Bracket ACC.048\*

\* For quantity refer to Tables 1, 2, 3

**(B)**

Push

clip

**(C)**

Connect to the power supply

**OUTLINER**

**OUTLINER IP67**

**Attention**  
For attaching the IP connectors refer to the page 7 of the IP connectors preparation guide.

### WALL BRACKET Installation

**(A)**

Wall Bracket  
ACC.284\* (Short 65mm)  
ACC.285\* (Long 115mm)

\* For quantity refer to Tables 1, 2, 3

**(B)**

Push

clip

**(C)**

Connect to the power supply

**OUTLINER**

**OUTLINER IP67**

**Attention**  
For attaching the IP connectors refer to the page 7 of the IP connectors preparation guide.

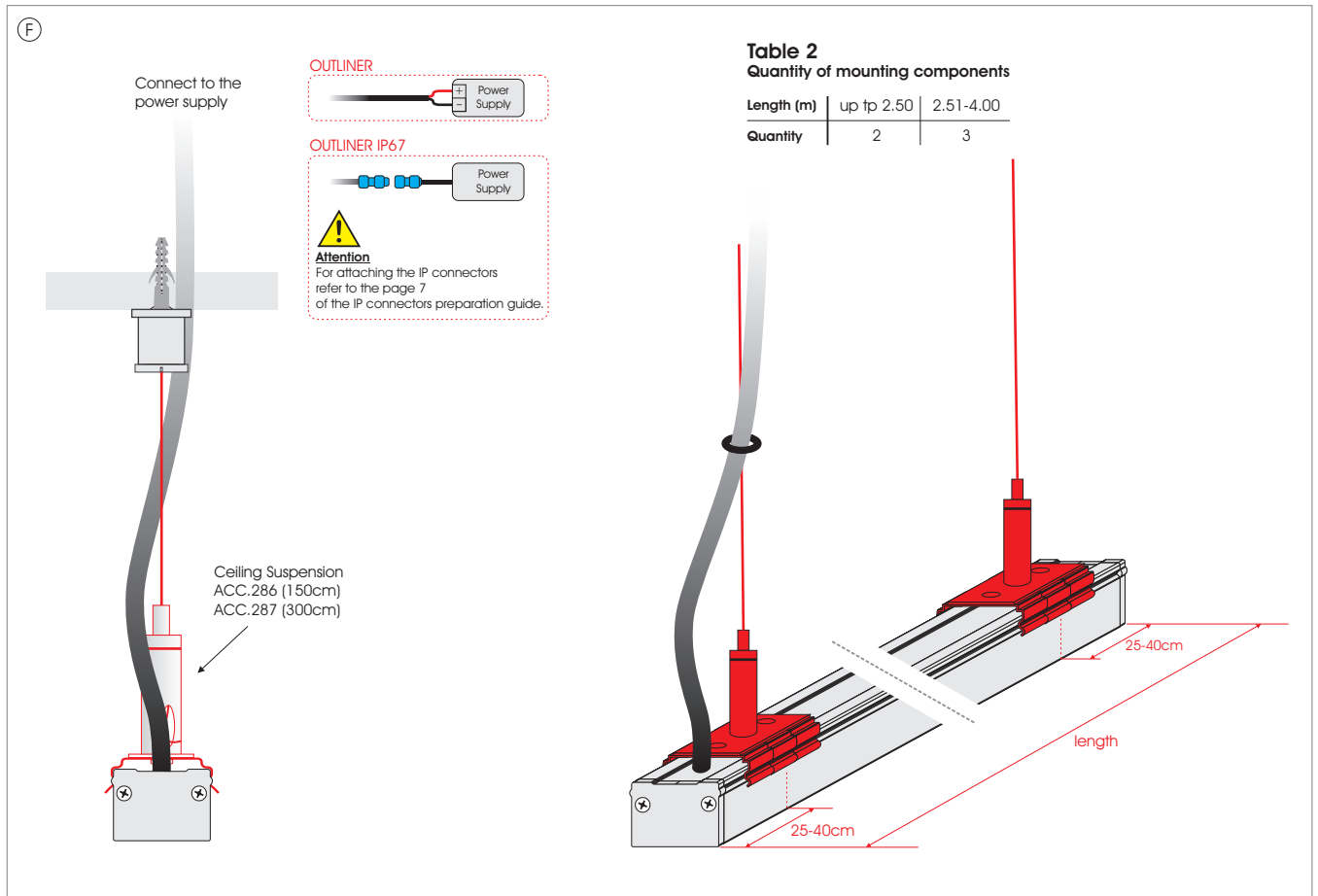
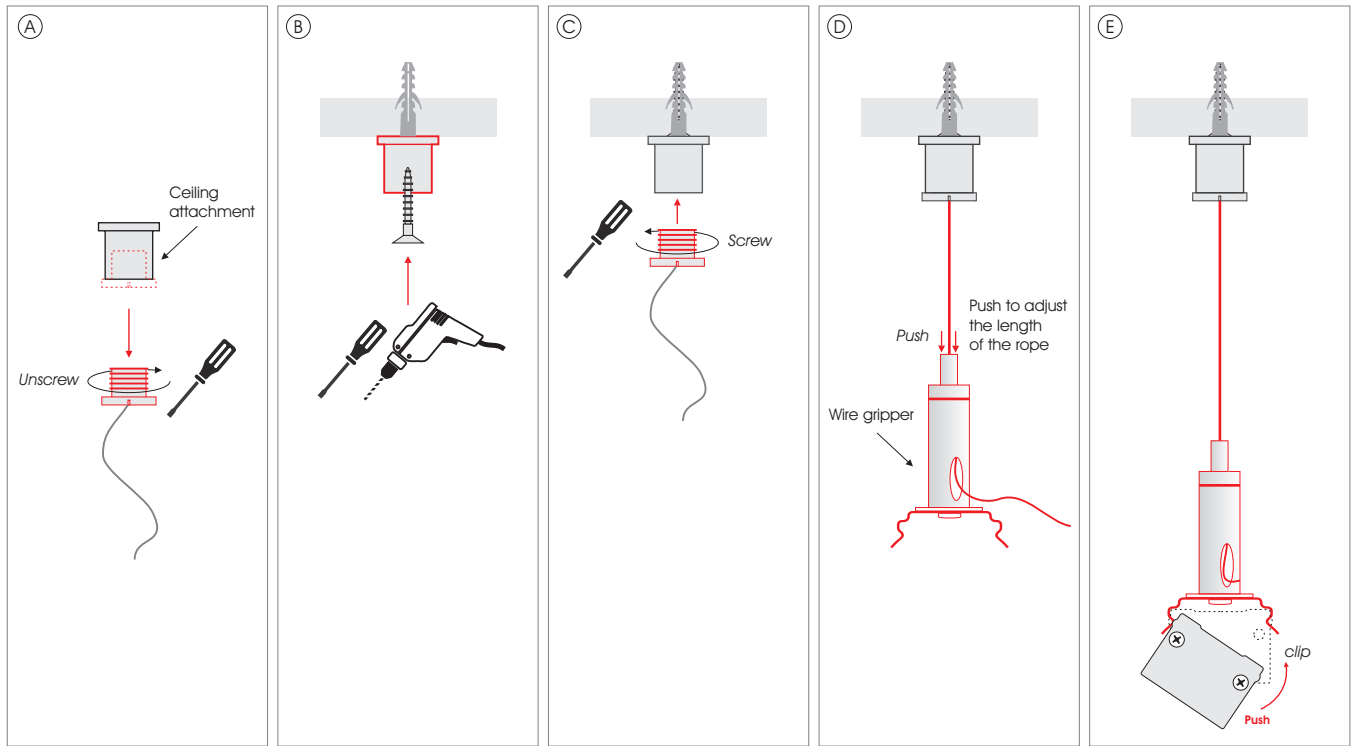


# OUTLINER / OUTLINER IP67 SERIES

## Mounting Types Installation Guide

OUTLINER 20 is presented below as an example.

### PENDANT Installation



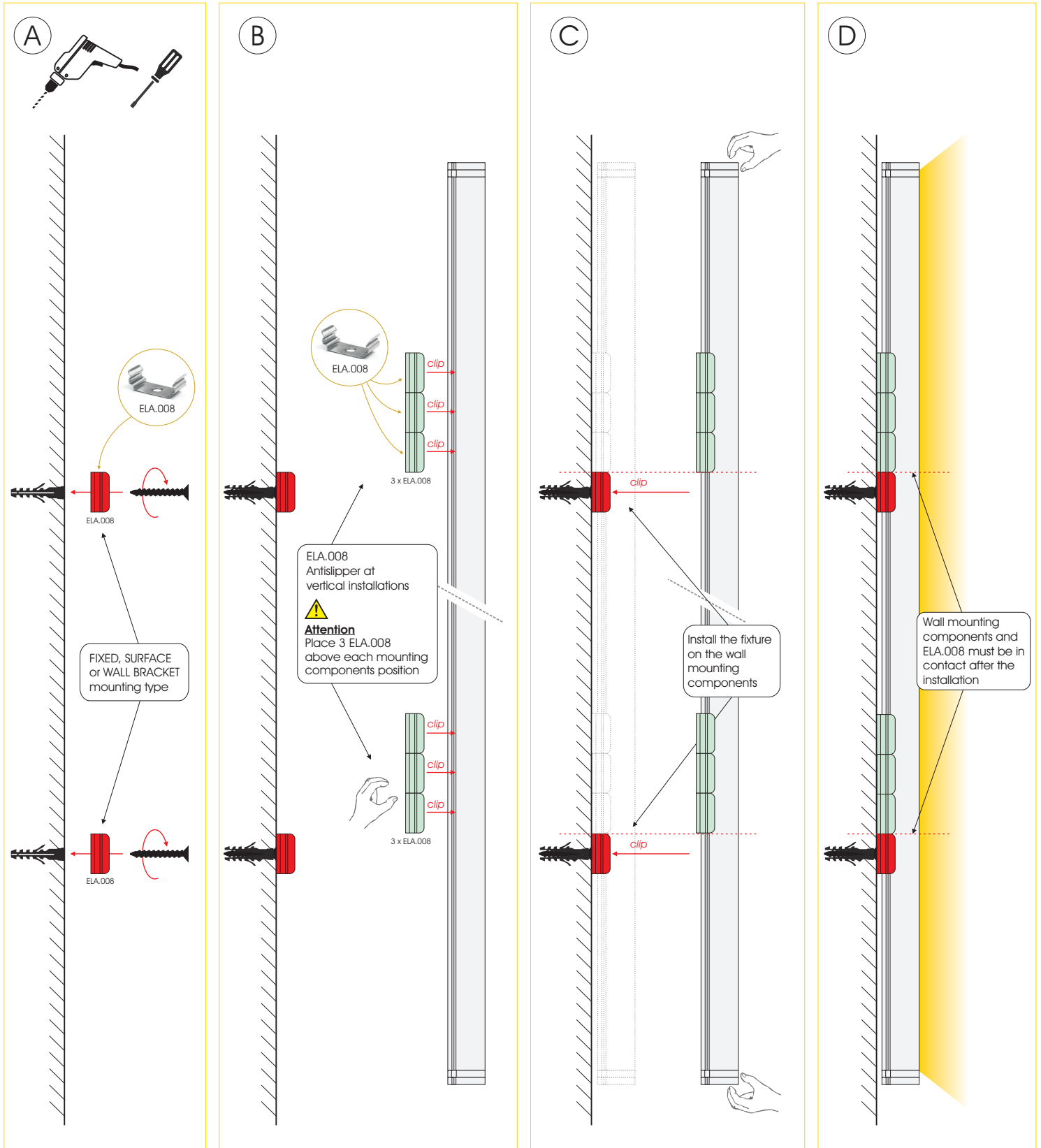
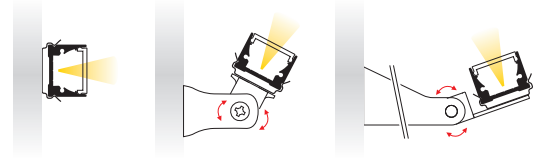
# OUTLINER / OUTLINER IP67 SERIES

## Antislipping at Vertical Installation

### FIXED, SURFACE and WALL BRACKET (Long/Short) mounting types

The following example illustrates the antislipping procedure for fixed vertical installation for **OUTLINER 20 IP67**.

The same method can be applied for surface & wall bracket installations.



# OUTLINER / OUTLINER IP67 SERIES

## IP Connectors Preparation Guide

### Waterproof

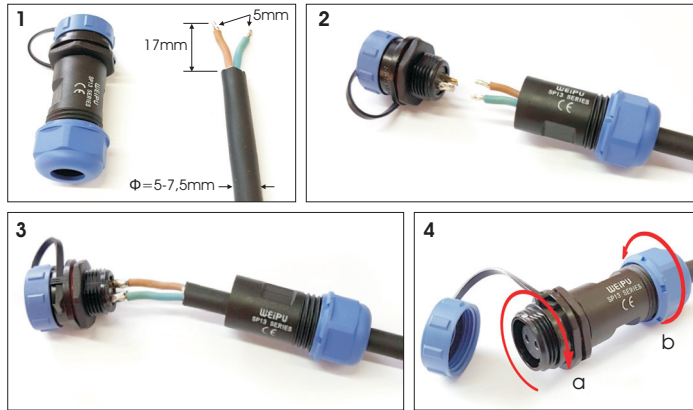
#### Assembling and soldering process for the power plugs.

For assembling and soldering the 2 poles power plugs to the proper cable (same for 3p 4p and 5p cable), the following procedure must be followed in order to be ensured the correct soldering of the cables and the impermeability of the plugs to water.



#### Attention

This procedure is very important. Thus, if is not completed correctly, there is chance of water leakage through the plugs inside luminaire.



**Picture 1.** The cable that will be used need to have outer diameter 5-7,5mm. Remove the outer cable insulation by 17mm (maximum) and then remove the two inner insulations from the cables by exact 5mm.

**Picture 2.** Unscrew the front side from the plug. Insert the cable to the main body of the plug from cable gland's side. Galvanize cable's copper and terminals inside the plug.

**Picture 3.** Solder the cables to the plug's terminals.

**Picture 4a.** Screw and well tighten the side of the terminals to the main body. In order for strong tightening to be achieved, connect the plug to its corresponding male or female pair and repeat the previous procedure.

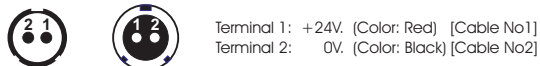
**Picture 4b.** Cable's gland has to be strongly tightened.

### Cables and power connectors description.

Luminaire is delivered with or without power connectors. When connectors are not available the cables will have color coding as mentioned in the parentheses. When connectors are available each pole has a numeric description. In the brackets below you can find the number as it is marked on each cable.

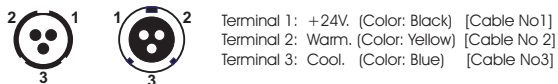
#### Monochromatic Models.

Male 2p. Female 2p.



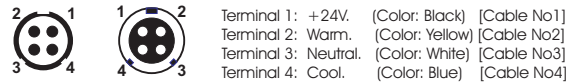
#### Tunable white (Warm-Cool) Models.

Male 3p. Female 3p.



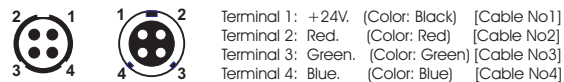
#### Tunable white (Warm-Neutral-Cool) Models.

Male 4p. Female 4p.



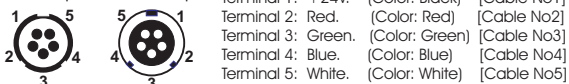
#### RGB Models.

Male 4p. Female 4p.



#### RGBW Models.

Male 5p. Female 5p.

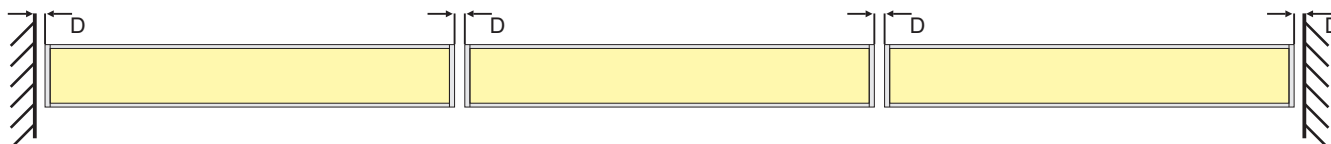


## OUTLINER / OUTLINER IP67 SERIES

### Distance (gap) between OUTLINER

There must be a minimum distance (D) between OUTLINER fixtures, as shown in the picture below, which is necessary for the expansion that occurs due to temperature changes.

The distance (D) between luminaries must be 1.5mm / 1m of luminaire's length.



As an example, if we want to install luminaries with 2m length next to each other a gap of 3mm must be maintained at the start, between & at the end of the luminaries.

