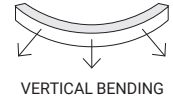
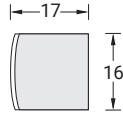
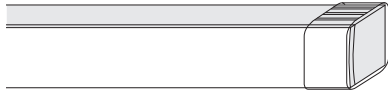


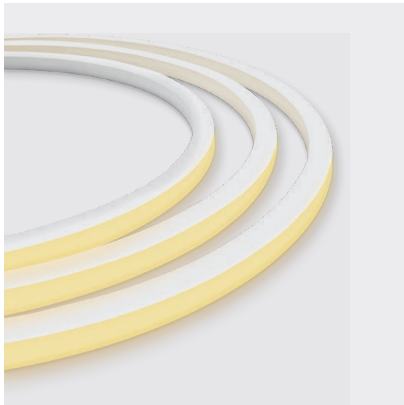
## For Installation of NEON ARC Continuous LED Solution IP67 (24VDC)

### Product drawing (dimensions)

IP67



### NEON ARC | ELECTRICAL AND PHYSICAL INSTALLTION GUIDE



| COLOUR                          | NEON SERIES | VARIANT CODE      |
|---------------------------------|-------------|-------------------|
| WARM WHITE<br>3000K +/- 175K    | NEON 1      | ITNO1230001067-VB |
| NATURAL WHITE<br>4000K +/- 275K | NEON 1      | ITNO1240001067-VB |
| 2500 - 5000K<br>TUNEABLE WHITE  | NEON 2      | ITNO12TUW01067-VB |
| RGB                             | NEON 3      | ITNO12RGB00567-VB |
| RGBW                            | NEON 4      | ITNO15RGBW0567-VB |
| RGB DYNAMIC                     | NEON 18     | ITNO16RGB00567-VB |

ELECTRICAL & OPTICAL DATA VARIANCE +/- 10%  
SOLD BY THE METRE  
IES FILES AVAILABLE

Please note drawings are an installation guide only. Each LED tape application may have variable factors. Cable size may need to be specified to limit the voltage drop throughout the circuit.

Actual product characteristics may vary. Ligman Lighting reserves the right to improve, modify or update the product designs without prior notice.

**ALWAYS UNCOIL BEFORE USE**

- LIGMAN standard products are supplied with the control gear 24VDC  
The control gear for other voltages and frequencies is available upon request, please consult us for more details.
- LIGMAN luminaires are designed to conform IEC 60598 2-2 standard.

Technical amendments and modifications techniques reserved.

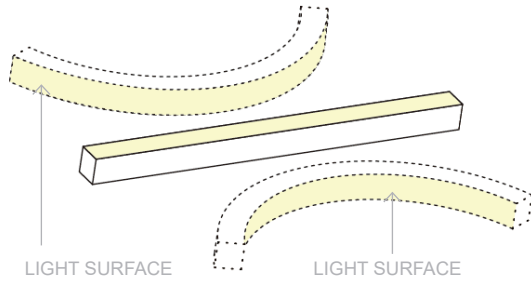
## Ligman Lighting

THAILAND  
LIGMAN Lighting Co.,Ltd.  
17/2 Moo 4, Monthong, Bang Nam Prio,  
24150 Chachoengsao - Thailand  
info@ligman.com

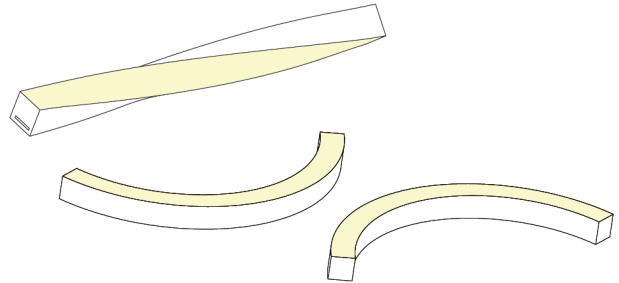
## BENDING PARAMETERS



NEON ARC CAN BE CURVED AS SHOWN BELOW

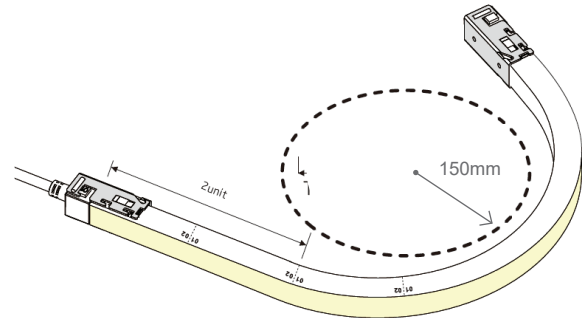
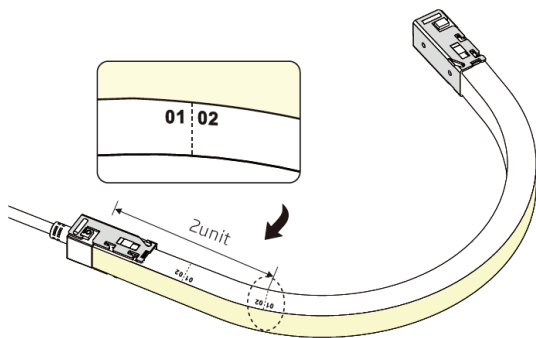


DO NOT TWIST THE LIGHT OR BEND AGAINST THE LIGHT SURFACE



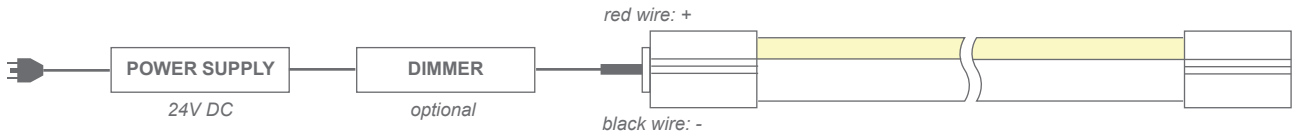
- Avoid bending LED Neon within the first unit (*units are clearly marked with dashed lines on the sides of the product*)

- LED Neon can be bent up to the defined "minimum bend radius" (150mm for Neon Arc)



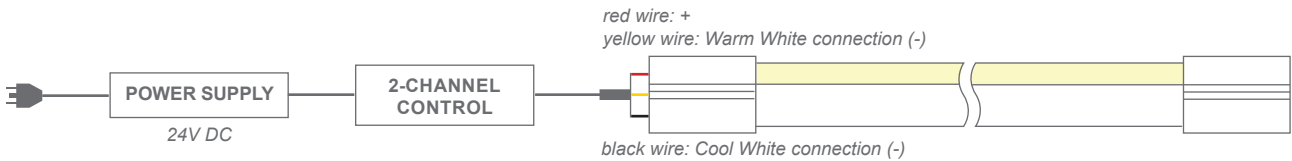
## WIRING DIAGRAMS

### WHITE



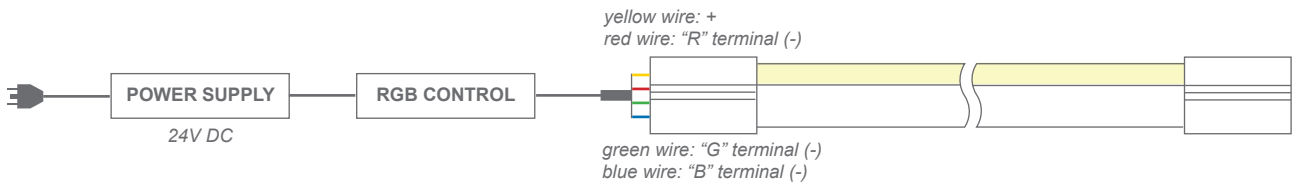
MAX. RUN PER POWER FEED: 10m using one feed, 20m using two feeds

### TUNEABLE WHITE



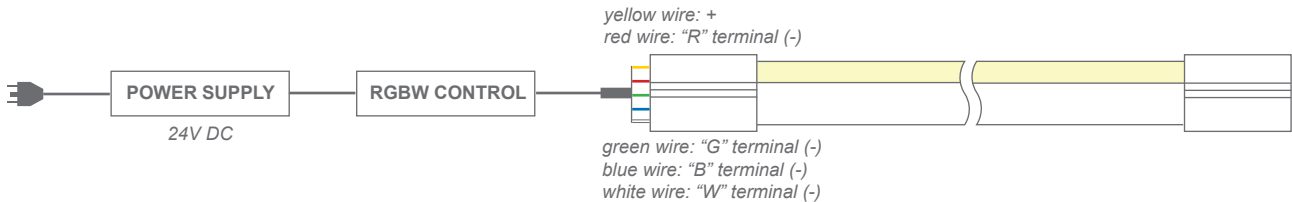
MAX. RUN PER POWER FEED: 10m using one feed, 20m using two feeds

### RGB



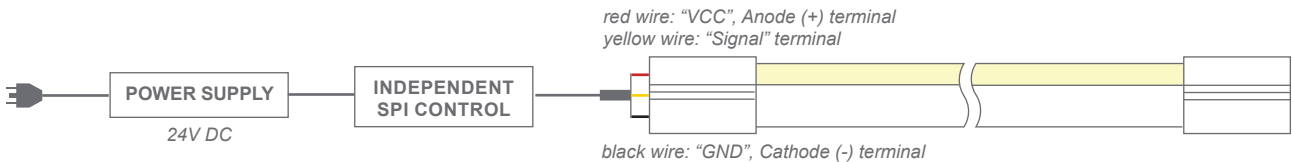
MAX. RUN PER POWER FEED: 7m using one feed, 14m using two feeds (Static full loading) or, 10m using one feed, 20m using two feeds (Dynamic operating)

### RGBW



MAX. RUN PER POWER FEED: 5m using one feed, 10m using two feeds

### DYNAMIC RGB 'CHASING'



DMX OPTION AVAILABLE

MAX. RUN PER POWER FEED: 5m using one feed, 10m using two feeds (Static full loading) or, 10m using one feed, 20m using two feeds (Dynamic operating)

- LED Neon must always be used in conjunction with a certified Bright Light 24V DC power supply.
- Check the polarity of the connector before inserting the front connector and switching on the mains power.
- To minimise voltage drop and ensure consistent light output, position the power supply near to the power feed end of the LED Neon, and keep the line as short as possible
- Ensure your maximum run per power feed adheres to the guidelines; see specification sheet.
- Ensure to add 20% buffer when selecting a power supply
- Before making any cuts, installation, maintenance, or connection, be sure the mains power is disconnected.
- If essential; cut and connect LED Neon correctly. Any incorrect operation can cause damage.
- All connector joints must be connected correctly to achieve connector IP rating.

## PROFILE INSTALLATION REQUIREMENTS

### ACCESSORY

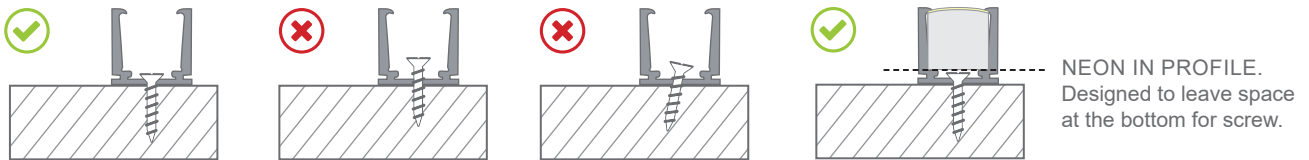
A80104-002  
SELF-LOCKING ALUMINIUM PROFILE 2m

A80105-002  
SELF-LOCKING ALUMINIUM V2 MOUNTING CLIP 35mm

A80106-003  
PLASTIC PROFILE 2m

A80106-004  
PLASTIC PROFILE 1m

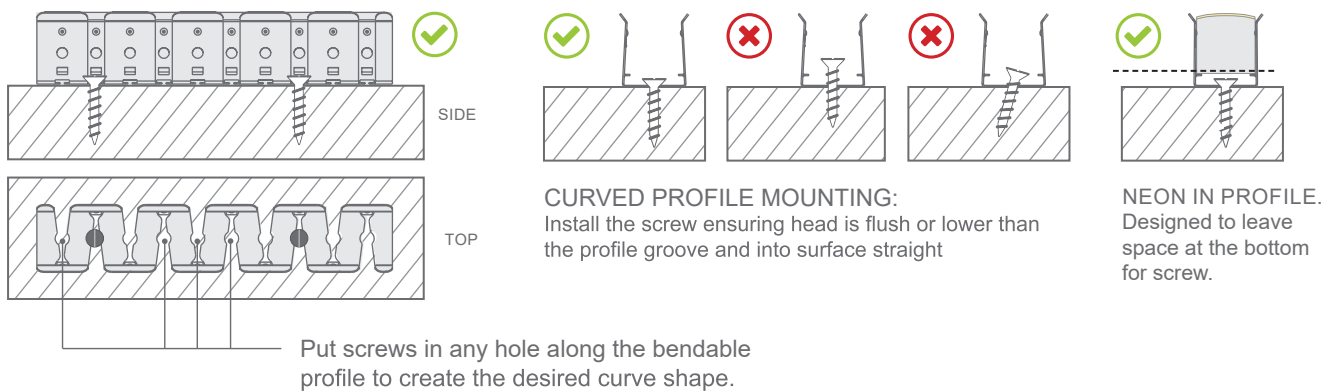
REFER TO  
**MOUNTING ACCESSORIES PDF**  
FOR PROFILE DETAILS  
& DIMENSIONS



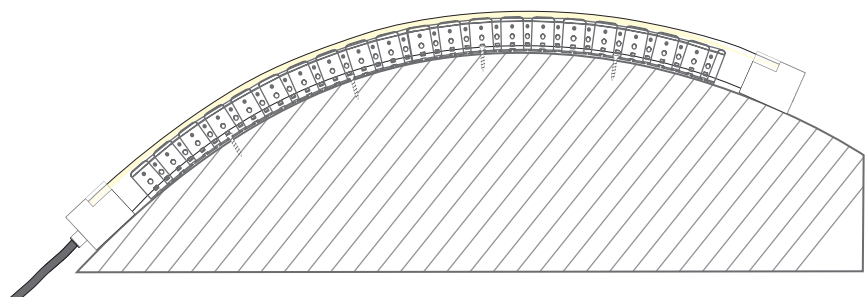
**PROFILE MOUNTING:** Install the screw ensuring head is flush or lower than the profile groove and into surface straight

### ACCESSORY

A80107-002  
CURVE STAINLESS STEEL PROFILE 900MM  
MULTIPLE FIXING LOCATIONS



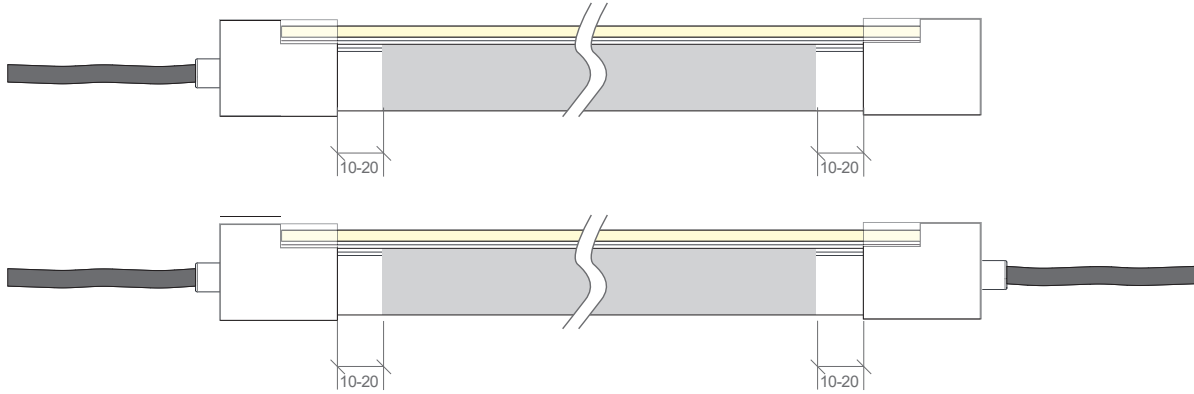
Curve stainless steel profile is flexible and can stretch or condense as the design requires.



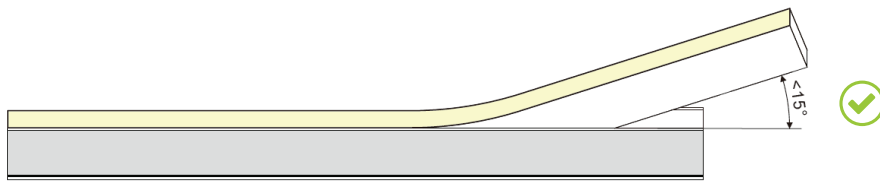
## PROFILE INSTALLATION REQUIREMENTS

### >> FOR SLEEVE / SNAP / DUAL INJECTION MOULDING CONNECTORS

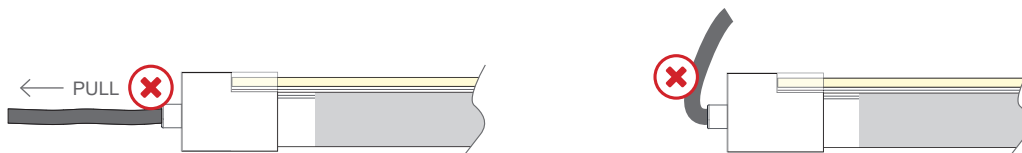
- ✔ - Ensure the supply cord is not subject to mechanical stress
- Keep 10–20mm distance between the end of the profile and the end mounting piece



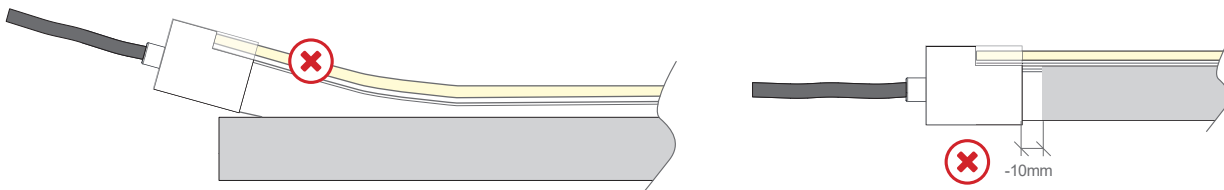
- The bend angle should be less than 15 degrees when installing LED Neon into the profile by hand



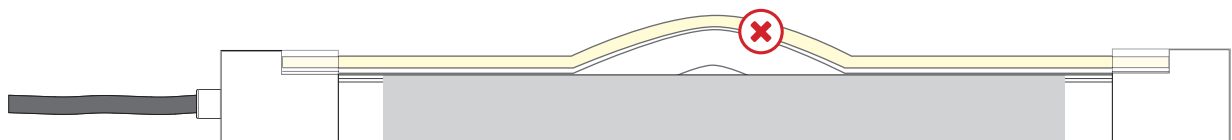
- ✘ - Avoid placing mechanical stress on the front connector cable
- Do not curl or bend the front connector cable with excessive force



- Avoid installing the profile less than 10mm from the end mounting piece

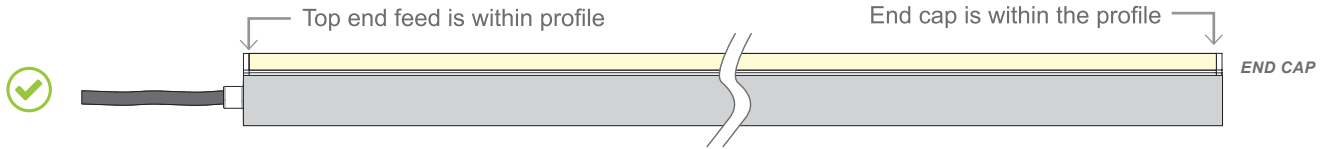


- Install the LED Neon into the profile in one direction, don't let it bow in the middle



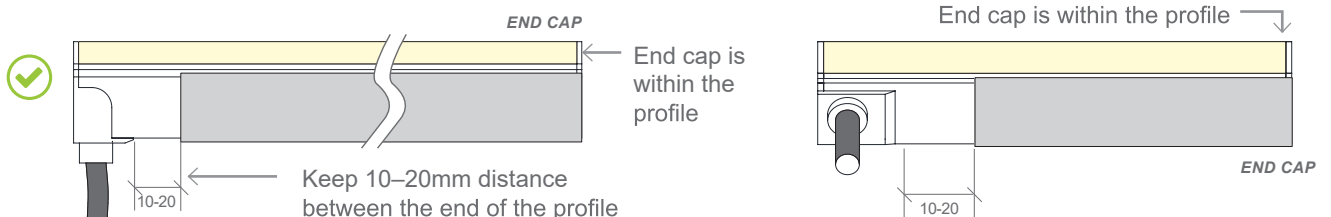
## PROFILE INSTALLATION REQUIREMENTS >> FOR SLIMLINE INJECTION MOULDING CONNECTOR

### TOP END FEED

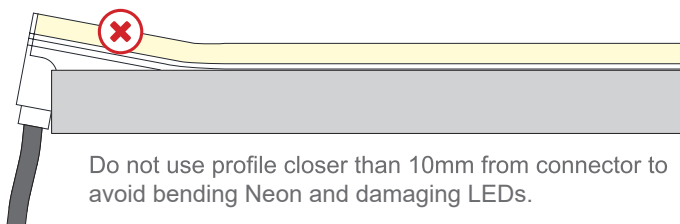


- Top End Feed (Slimline injection moulding only) & end cap are both fitted within the profile

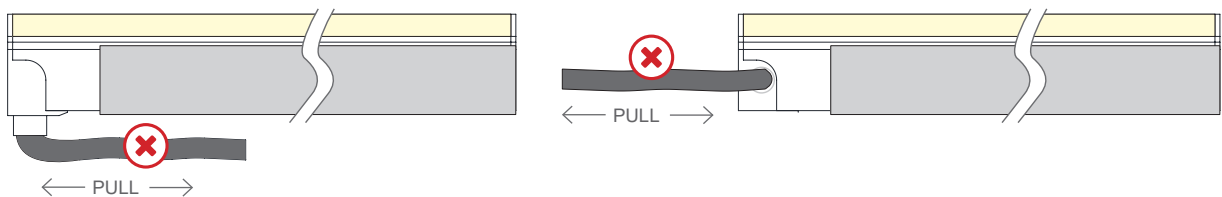
### BOTTOM FEED / SIDE FEED



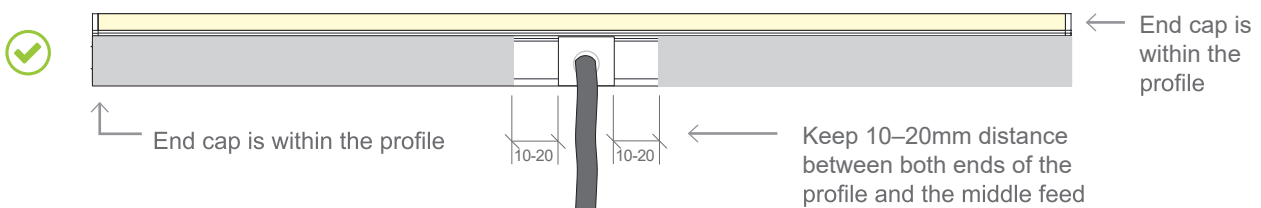
- Bottom feed / side feed are keep outside the profile with 10-20mm space
- End cap is within the profile



- Avoid placing mechanical stress on the connector cable
- Do not curl or bend the connector cable with excessive force



### MIDDLE FEED



## SNAP CONNECTIONS - IP67

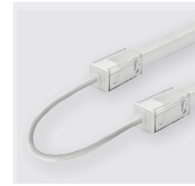
SUITABLE FOR OUTDOOR APPLICATIONS  
 MUST BE FITTED CORRECTLY FOR IP67 RATING  
 FEED CONNECTORS SUPPLIED AS 1M CABLE  
 INSTALLATION WITH DOUBLE POWER FEED:  
 FEED 01 + FEED 02



TOP END FEED

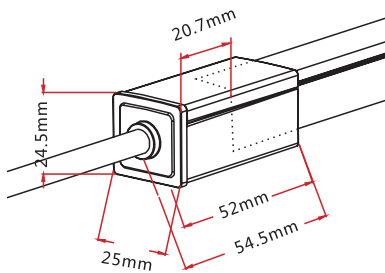


END CAP

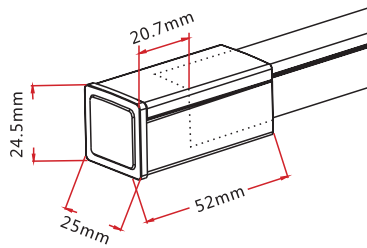


FLEXIBLE  
CONNECTOR

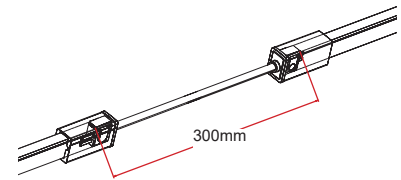
|                                     |            |            |            |            |
|-------------------------------------|------------|------------|------------|------------|
| WHITE                               | 01         | 02         |            |            |
|                                     | A80083-001 | A80083-002 | A80084-001 | A80085-001 |
| TUNEABLE / RGB / RGB CHASING / RGBW |            | -          | -          | -          |



SNAP TOP END FEED CONNECTOR



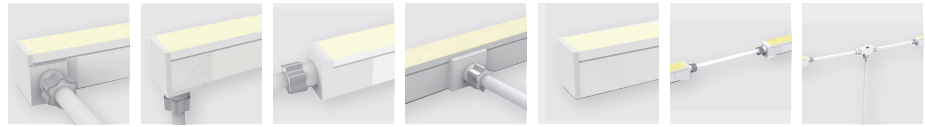
SNAP END CAP



SNAP FLEXIBLE CONNECTOR

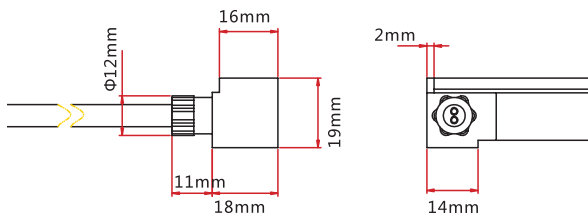
## SLIMLINE INJECTION MOULDING CONNECTIONS - IP67

REQUIRES FITTING AT FACTORY. LEAD TIMES APPLY  
 SUITABLE FOR OUTDOOR APPLICATIONS  
 FEED CONNECTORS SUPPLIED AS 1M CABLE

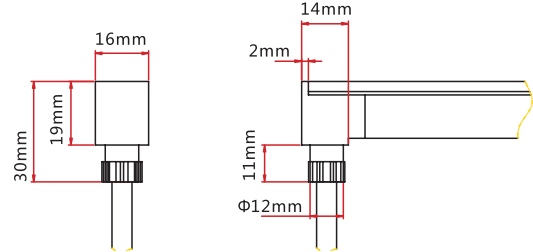


**SIDE FEED      BOTTOM FEED      TOP END FEED      MIDDLE FEED      END CAP      FLEXIBLE CONNECTOR      T FEED**

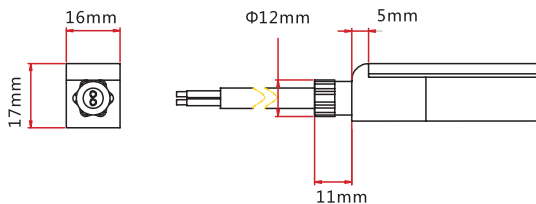
|                        |        |        |        |        |        |        |        |
|------------------------|--------|--------|--------|--------|--------|--------|--------|
| WHITE / TUNEABLE / RGB | A80086 | A80087 | A80088 | A80089 | A80090 | A80091 | A80092 |
| RGB CHASING / RGBW     | A80086 | A80087 | A80088 | -      | A80090 | A80091 | A80092 |



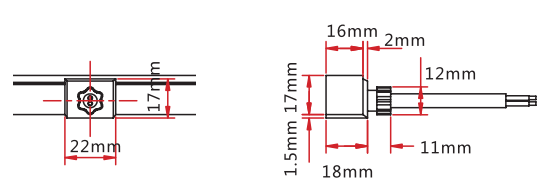
**SIDE FEED**



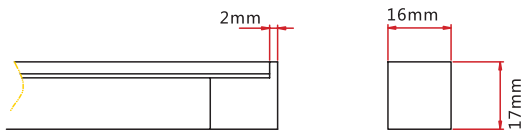
**BOTTOM FEED**



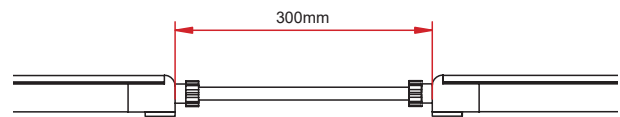
**TOP END FEED**



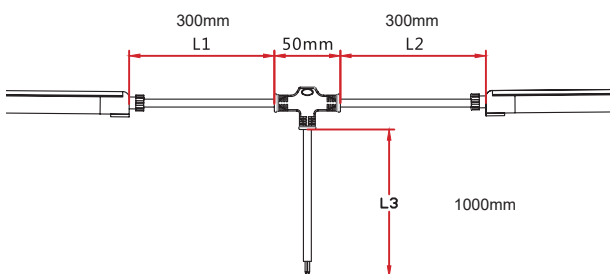
**MIDDLE FEED**



**END CAP**



**FLEXIBLE CONNECTOR**

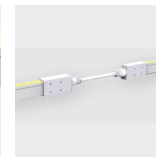
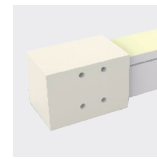
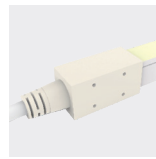
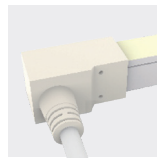


**T-FEED**



## CAPPED DUAL INJECTION MOULDING - IP68

REQUIRES FITTING AT FACTORY. LEAD TIMES APPLY  
 SUITABLE FOR OUTDOOR APPLICATIONS  
 FEED CONNECTORS SUPPLIED AS 1M CABLE



SIDE FEED

BOTTOM FEED

TOP END FEED

END CAP

FLEXIBLE CONNECTOR

WHITE / TUNEABLE / RGB / RGB CHASING / RGBW

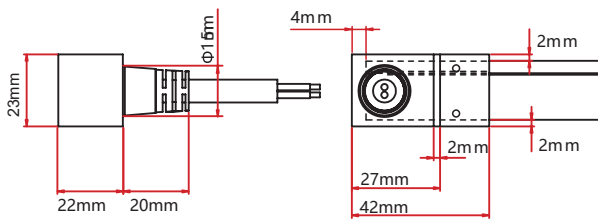
A80093

A80094

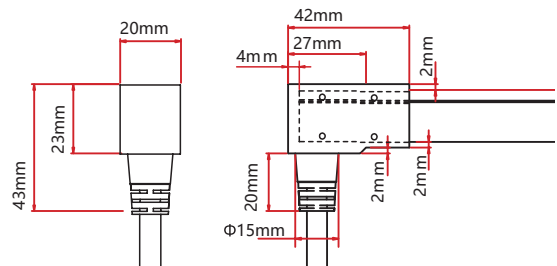
A80095

A80096

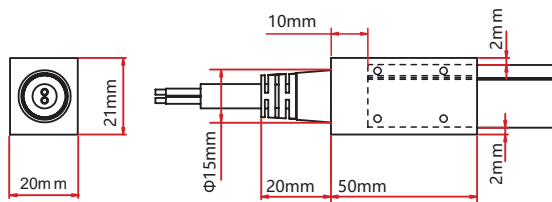
A80097



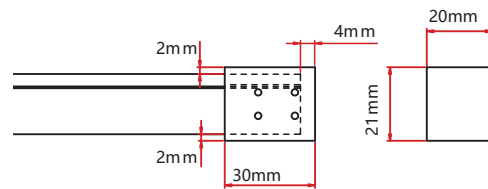
SIDE FEED



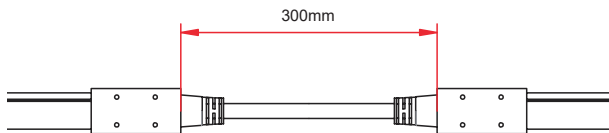
BOTTOM FEED



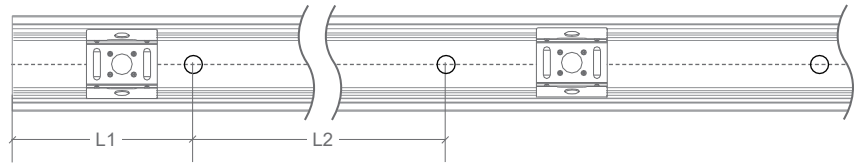
TOP END FEED



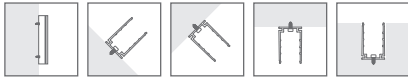
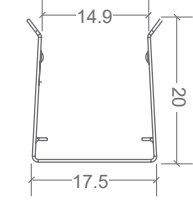
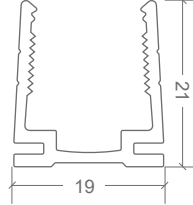
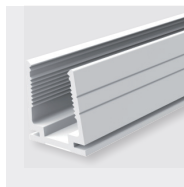
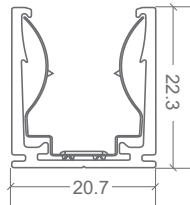
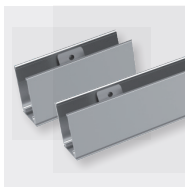
END CAP



FLEXIBLE CONNECTOR



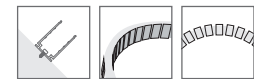
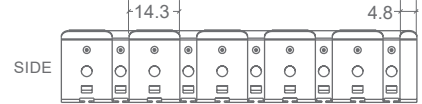
| CODE       | ACCESSORY   | L1    | L2    | HOLE DIMENSIONS | HOLE NUMBER | CLIP NUMBER |
|------------|---|-------|-------|-----------------|-------------|-------------|
| A80104-002 | SELF-LOCKING ALUMINIUM V2 PROFILE 2m                                    | 100mm | 200mm | Ø3.5mm          | 10          | 11          |
| A80105-002 | SELF-LOCKING ALUMINIUM V2 MOUNTING CLIP 35mm                            | 5mm   | 25mm  | Ø3.5mm          | 2           | 1           |
| A80106-003 | PLASTIC PROFILE 2m  | 100mm | 200mm | Ø3.5mm          | 10          | -           |
| A80106-004 | PLASTIC PROFILE 1m  | 100mm | 200mm | Ø3.5mm          | 5           | -           |
| A80107-002 | CURVE STAINLESS STEEL PROFILE 900MM<br><i>MULTIPLE FIXING LOCATIONS</i> | -     | -     | -               | -           | -           |



**SELF-LOCKING ALUMINIUM  
V2 PROFILE 2M / MOUNTING CLIP**



**PLASTIC PROFILE 2M**



**CURVE STAINLESS STEEL  
PROFILE 900MM**