

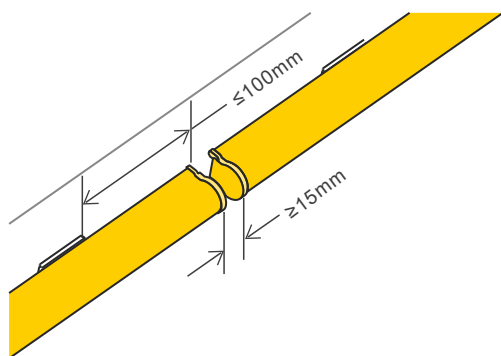
# SHELL DUO COLOUR RED/YELLOW

## INSTALLATION GUIDE





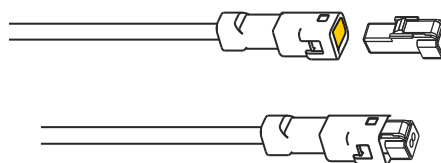
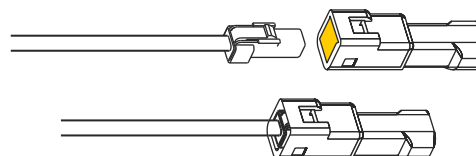
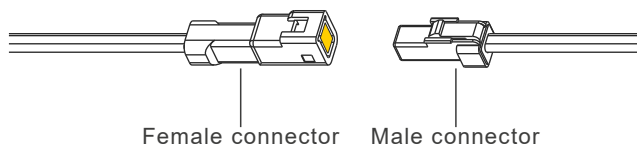
## 6. Distance between sections:



To allow for thermal expansion and contraction and to prevent damage the individual sections need to have a gap between them.

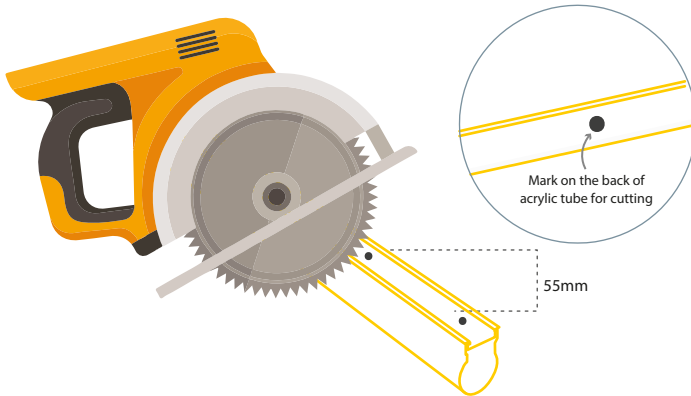
When installing at an ambient temperature above 10 °C leave a minimum gap of 10 mm between sections. Below 10 °C this can be 15 mm.

## 7. JST Connectors:

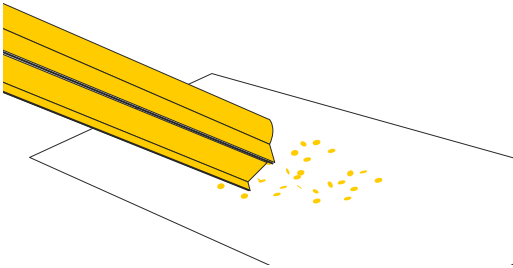


The JST connectors have a locking clip. Make sure these are fully engaged, making the connection IP67 water proof. Hide the connectors behind the tubes once connected. Do not pull or bend the cables too tight. This may damage the seal and compromise the IP rating.  
To close off all open connectors in an installation and make them waterproof male or female blanking connectors must be used. Otherwise water can get into the open connectors which will lead to failures.

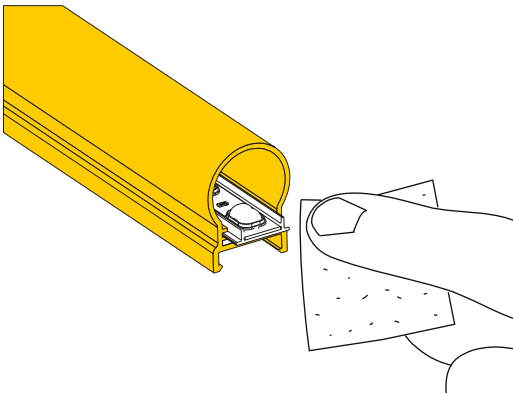
## CUTTING



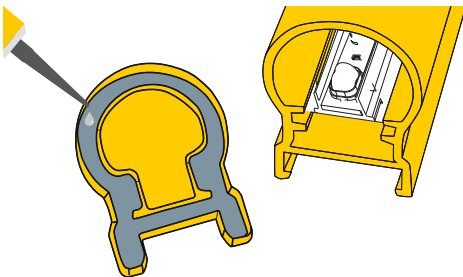
**1. Cutting of the tubes:** Locate the cutting positions (black dots) at the back of the tubes placed at every 55mm apart. Align the cutting position with the middle of the saw blade, place the tube flat on the platform, and cut the tube perpendicular to the saw blade. Please make sure that the saw blade is sharp to ensure that the cutting end face is smooth.



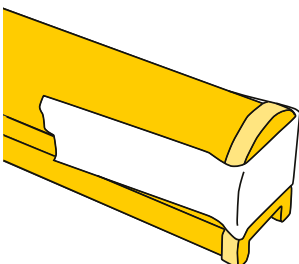
**2. Clean inside tube from plastic and aluminium residue.**



**3. Sand the edge:** Sand the edge of the tube & the PCB with the fine sand paper to ensure the edge is smoothened & uniform. Push back the PCB inside the tube.



**4. Fix end cap:** Fill the edge of the cap with PMMA glue (Weldon 16, Acryfix or similar). Push it on the tube and hold for 30 seconds.



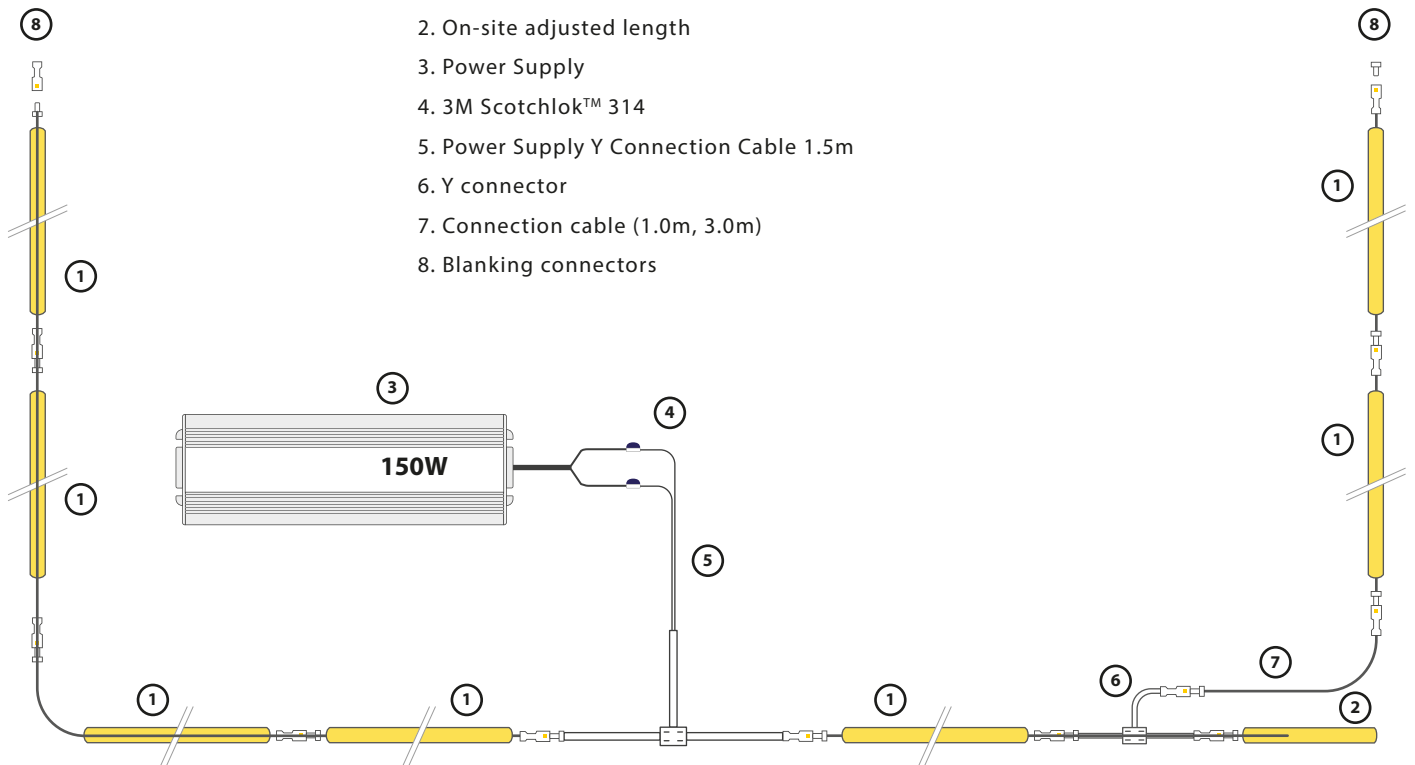
**5. Fix a tape to cure:** Put a piece of masking tape over the end cap and tube and let it cure for at least 20 minutes before handling it.



# ELECTRIC LAYOUT EXAMPLE

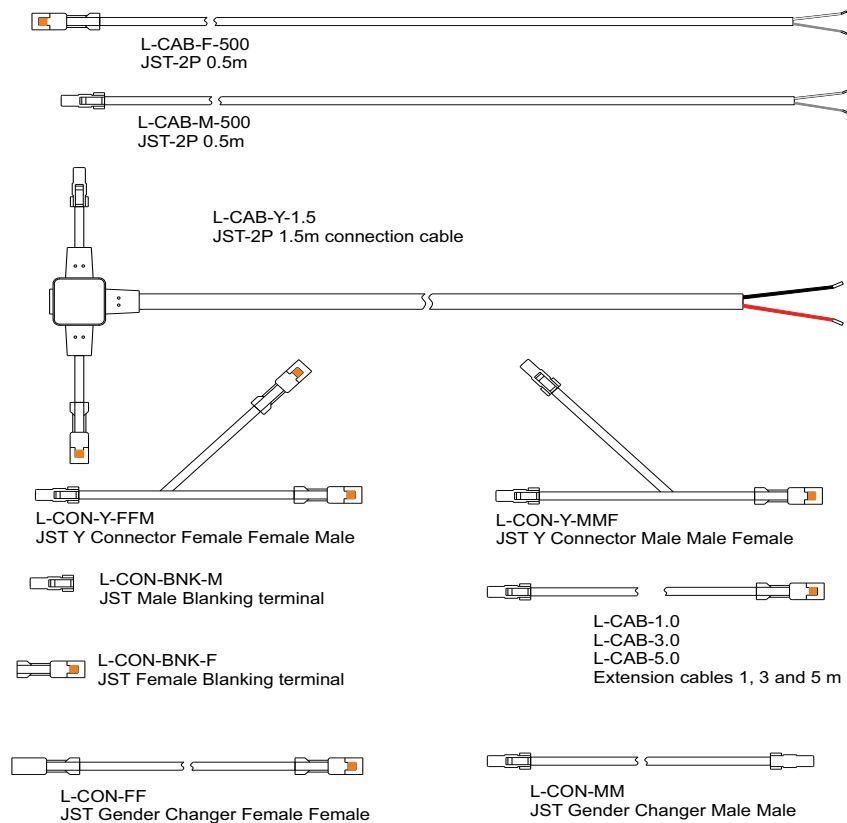
## Installation Index

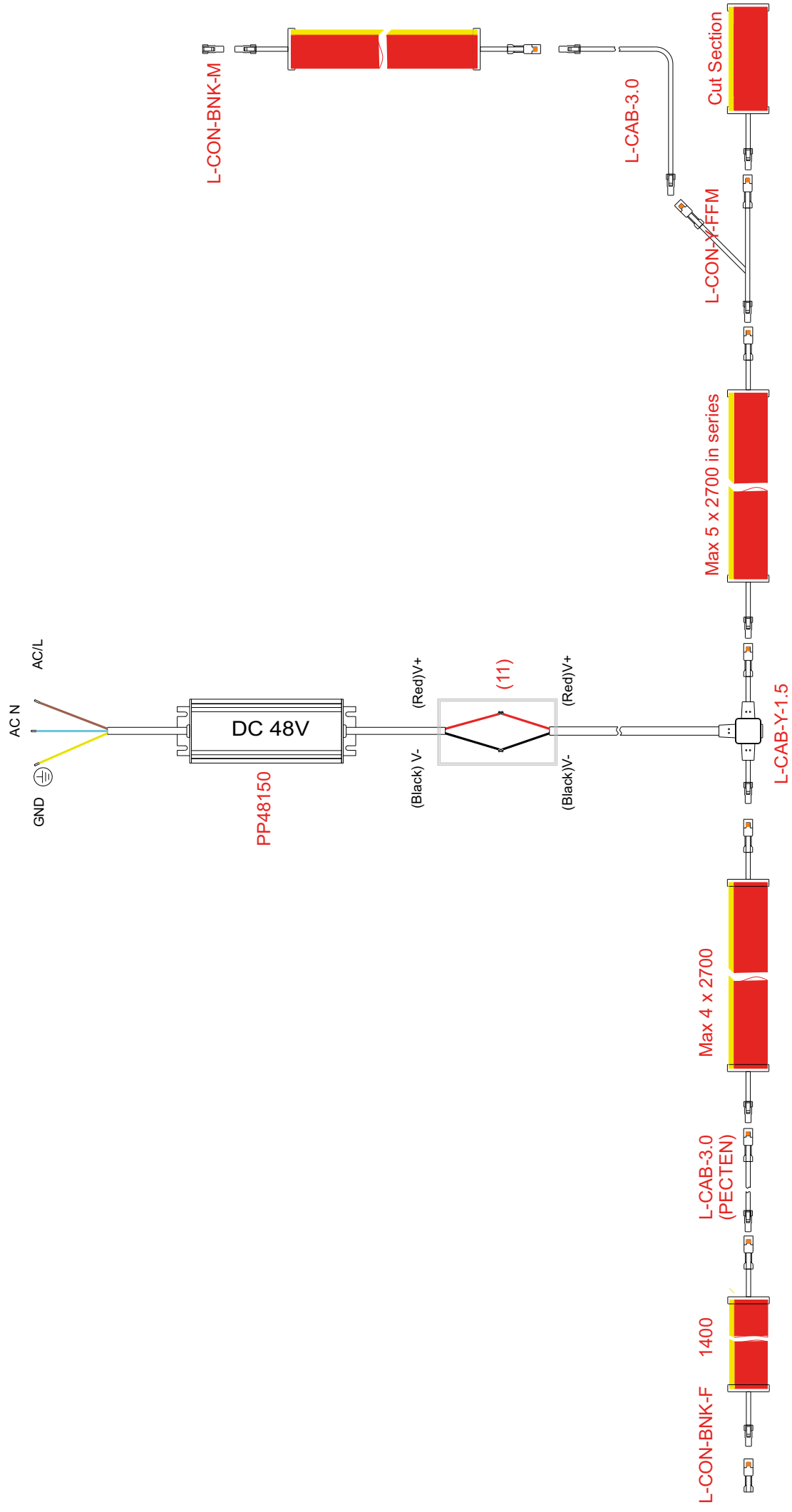
1. Standard Shell Duo Colour (2700mm, 1400mm, 160 corner, 600 corner)
2. On-site adjusted length
3. Power Supply
4. 3M Scotchlok™ 314
5. Power Supply Y Connection Cable 1.5m
6. Y connector
7. Connection cable (1.0m, 3.0m)
8. Blanking connectors



**Maximum 5 sections of 2700mm or 13.5 m length in series per leg of power supply cable.**

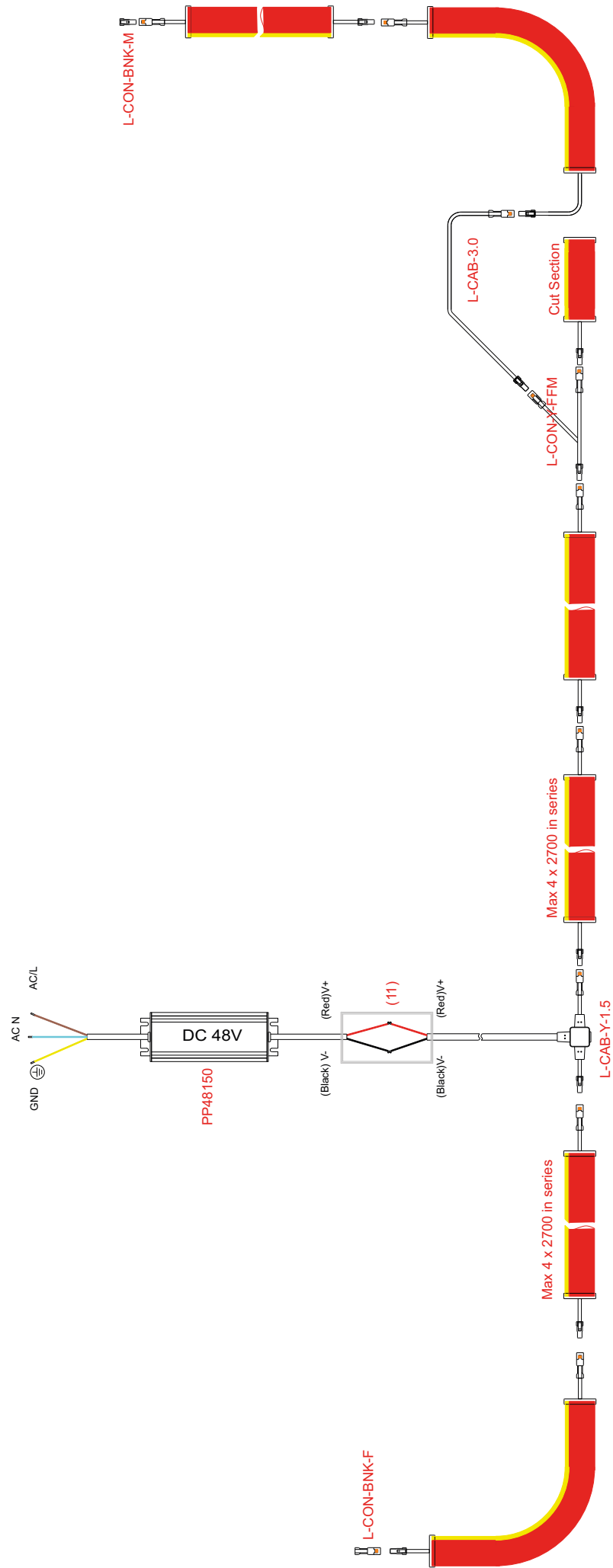
## CABLES AND CONNECTORS



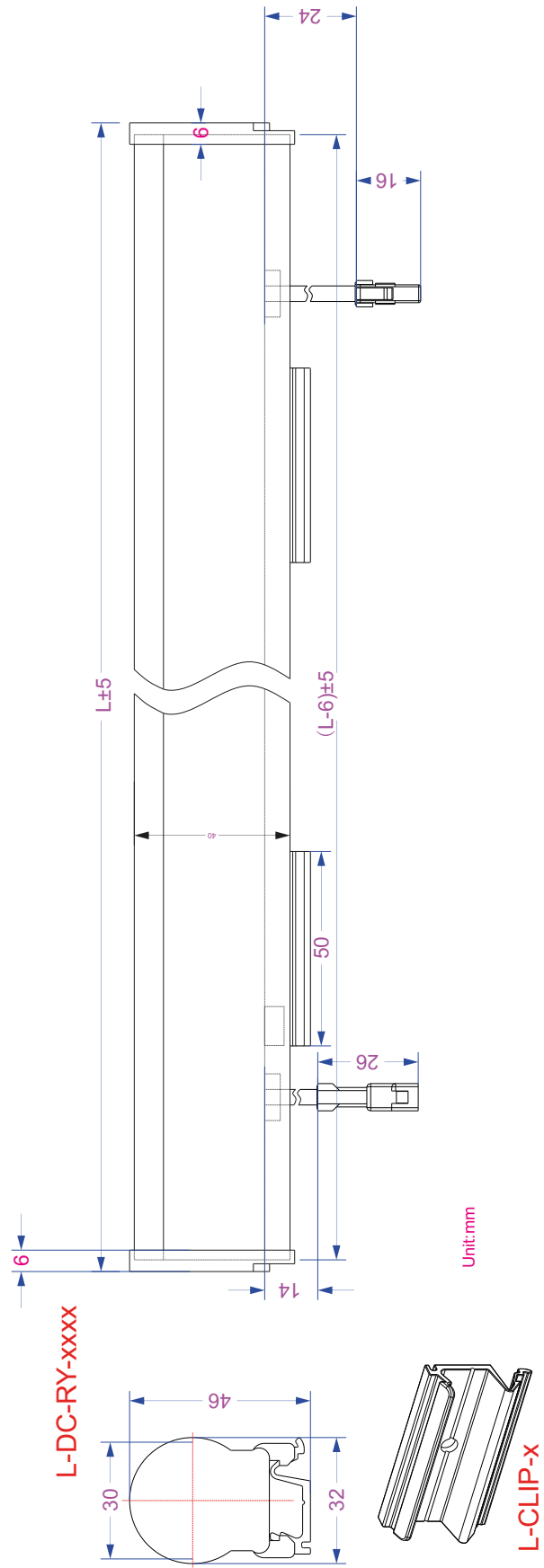




## Shell MVI typical installation fascia









**Bever Innovations B.V.**

Techniekweg 2 | 4301 RT Zierikzee  
The Netherlands

Tel +31(0)111 74 54 00

[info@beverinnovations.com](mailto:info@beverinnovations.com)

[www.beverinnovations.com](http://www.beverinnovations.com)

[Find here your representative](#)

Bever\_MANUAL\_Shell Duo Colour red/yellow\_EN\_2023-09