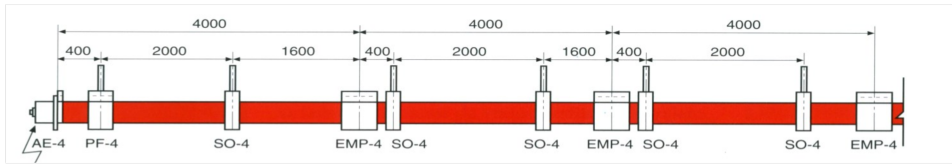




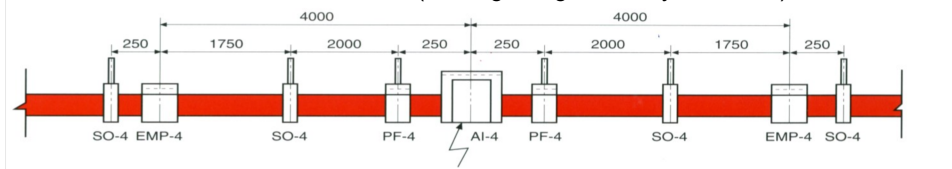
MODULAR CONDUCTOR SYSTEM LC-4

ASSEMBLY INSTRUCTIONS

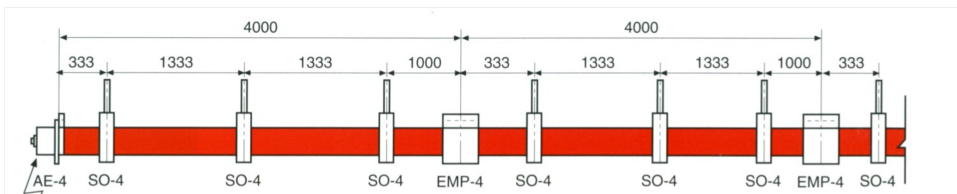
INDOOR SYSTEM WITH END FEED (Sliding hangers every 2 metres)



INDOOR SYSTEM WITH LINE FEED (Sliding hangers every 2 metres)



OUTDOOR SYSTEM WITH END FEED (Sliding hangers every 1,33 metres)



The fixed point clamp, PF-4 can also be installed in the middle of the system to disperse

1) SAFETY

Disconnect the electrical current from the system before beginning any assembly operation.
Do not use the Modular Line LM-4 for higher loads than the specified voltage and current.

2) INSTALLATION

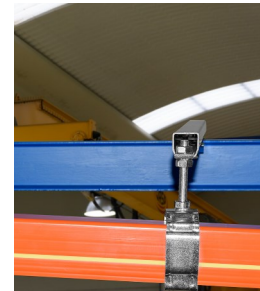
The support structure for the power line must be capable of supporting the total weight of the system. Place the support points along the beam through which the hoist will move. These points should be located every 2m or every 1,333m depending on the type of line in question and according to previous sketch.



Install universal brackets every 2 or 1.33 meters, according to the assembly scheme



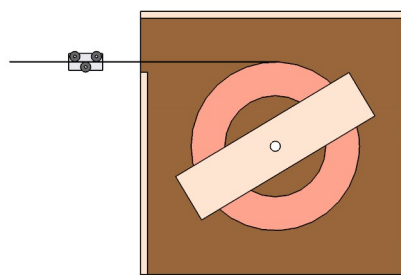
Assemble the sliding hangers SO-4 and the fixed points PF-4 on the support arms by tightening their corresponding screws.



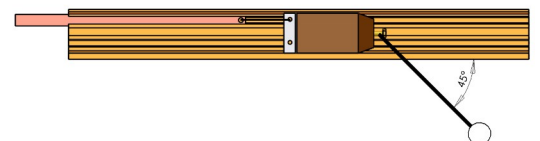
Install the LC-4 line bars at the support points, respecting that the yellow "earth" signal line is always on the same side.



Fit and tighten the screws of the joint EMPC-4 splices. Check correct alignment between beam and power line.



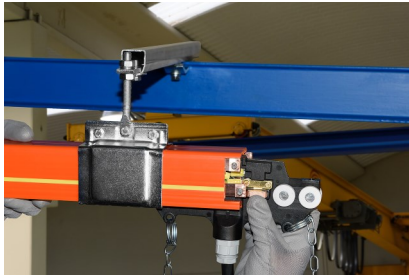
Insert the 4 copper channels on the PVC housing with the help of the copper pulling cassette and drawing block. Pass the copper channels over the straightener and tie the plate over the drawing block.



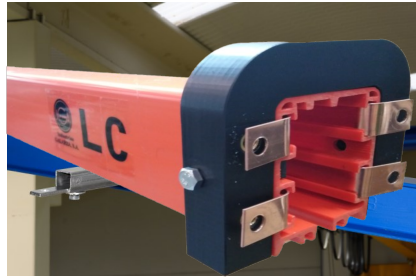
Slide the channel along the PVC housing with the help of the drawing block. The push must be done with a minimum angle of 45°.



ASSEMBLY INSTRUCTIONS

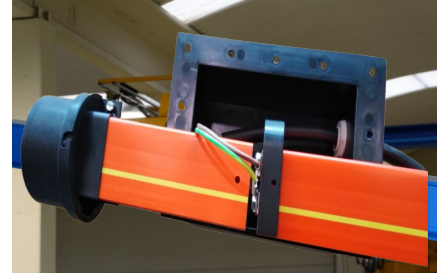


Insert the current collector, with manual pressure of brushes. Respect the unique position to avoid phase exchange.



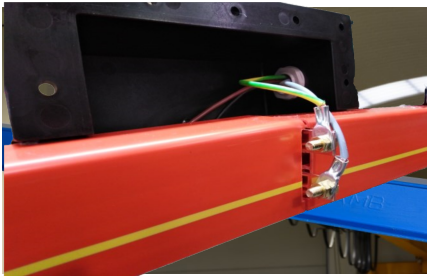
EXTREME FEED

Fix the connection support on the PVC profile and fold the 4 Cu 90° channels. Practice a hole of Ø 6mm at the ends of the channels.



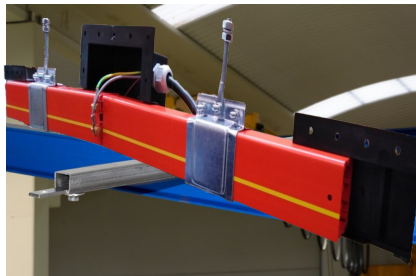
EXTREME FEED

Fix terminals to each pole of the supply cable and connect them to their respective channels; Fixing them in the connection support. Assemble the feed box with its respective end cap. Assemble the fixed point in the vicinity of the feed box.



INTERMEDIATE FEED

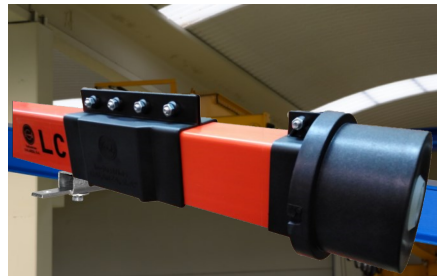
Assemble the PC-4 connection channels between two standard sections of PVC at the connection point and connect them to the rest of the line. Remove the ends of the channels through the notches that have the PVC housing. Fold the 4 channels of Cu 90° and make a hole of Ø 6mm to each of them.



INTERMEDIATE FEED

Fix terminals to each pole of the supply cable and connect them to their respective channels. Assemble the feed box.

Assemble a fixed point on each PC-4 connection profile



Assemble end caps to the rest of the line using their respective joints. The 200mm of length of cover, serves to absorb the dilatations and contractions of the line.



Assemble the BA-4 towing arm on the crane or hoist structure, aligning the chain pull with the central axis of the modular profile. The towings arm must be between 30mm and 50mm below that profile.

3) OPERATION

3.1 Previous tests

Carry out several travels by hand with the current collector to check that it moves throughout its length without problems. The extra-flexible cable of the current collector must be connected to the towing arm in a loop, without causing torsion of the trolley. Make the electrical connection to the line and test its insulation.

3.2 Final tests

Once the electric current is connected, check that the current collector moves forward and backward without problems. Check that the device that the LM-4 system is powered on works correctly.

3.3 Normal functioning

Do not exceed the maximum voltage and / or amperage specified for LM-4. Use the LM-4 line within its corresponding electrical and / or mechanical specifications.

4) MAINTENANCE

Perform periodic maintenance tasks to ensure the status of the LM-4 line. The maintenance operations will depend on the use given to the system. During each inspection the following points should be checked:

- Wear of ball bearings.
- Ensure screws are correctly tightened.
- Separation or alignment in the joints.
- Electric cables: cuts, cracks, etc...
- The profile must be clean in the running edges.