

INSTALLATION MANUAL

MASTERLINE Ultimate Micro

Table of contents

• GENERAL INFORMATION	1
• NOTES IN THIS MANUAL	1
• NOTES ON THE FULFILMENT OF LEGAL CRITERIA	1
• INSTALLATION	2
• REVISION HISTORY	4

GENERAL INFORMATION

Read the cable system user manual and installation manual carefully. General safety instructions apply unless this document stipulates more specific instructions. HUBER+SUHNER declines all liability and claims if the specifications are not met.

NOTES IN THIS MANUAL

The following symbols are used in this manual.



Info notes:

Info notes contain important instructions for installation and proper use of the product throughout its life cycle. The info notes also indicate that non-compliance may result in material damage or financial loss.



Notes about hazards and safety precautions:

Notes which indicate that non-compliance may result in danger to life and limb, as well as to material damage. It is imperative that these notes are heeded.

NOTES ON THE FULFILMENT OF LEGAL CRITERIA

The installation of optical communications systems requires that requisite permits be obtained from all the competent authorities. The installation technician is responsible for compliance with all applicable regulatory restrictions, usage regulations and other guidelines. This applies to permanent and temporary installations.

- Ascertain the applicable restrictions and usage regulations prior to installation.
- Draw up a cable-laying plan prior to installation.
- Check the finished system for compliance with usage and safety regulations.

INSTALLATION

Step 1:

Hoisting points:



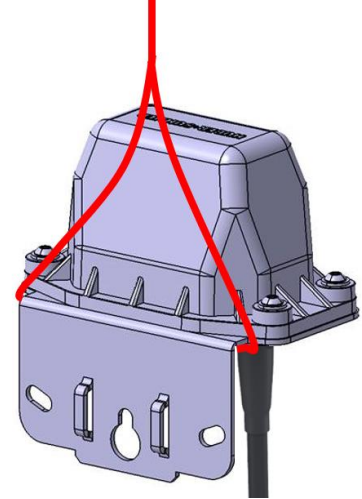
The Masterline Ultimate Micro (MLUM) may only be lifted up as marked in red. Make sure that the pull rope does not slip out of the bracket during pulling and that the pull rope has enough pulling force to safely lift the MLUM system.



Avoid buckling the cable or bending it at less than the minimum radius while the device is being raised.



All plug-type cables must be unplugged prior to raising.



Step 2:

Fixing:



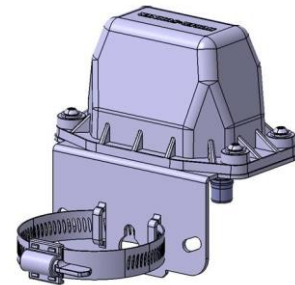
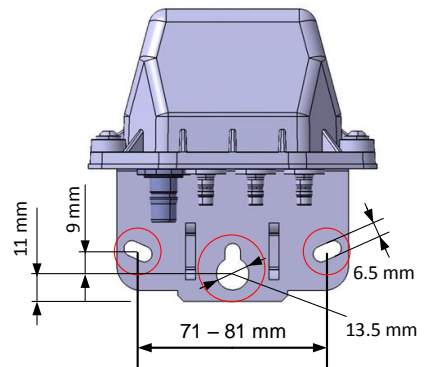
Mast and wall mounting:


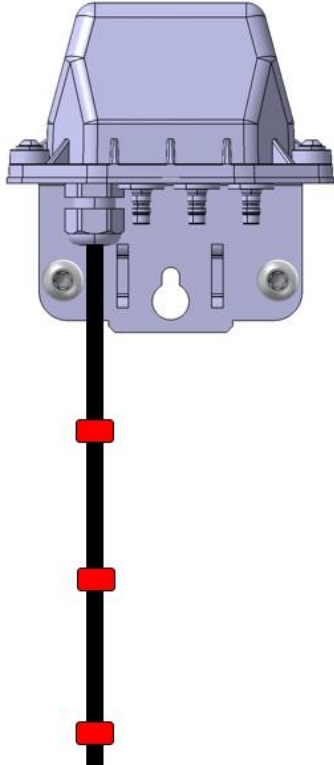


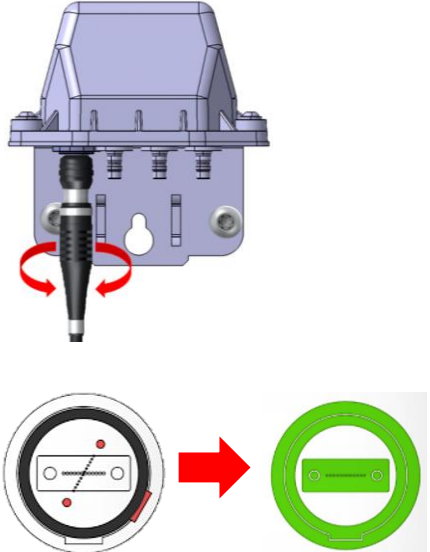
The MLUM system can be mounted either on the mounting holes marked with a red circle or over the bracket using hose clamps. Please heed the instructions given by the manufacturer of the fixing materials.


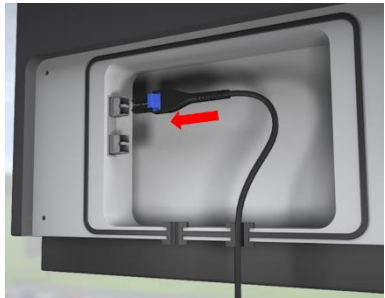






Mast mounting:

Always use hose clamps to fix the MLUM system to a mast. Guide the hose clamps at the bottom into the lug provided and then secure them to the mast.



Step 3:	 <p>The fiber optic cable must be secured according to national and local regulations. The weight of the cable must be supported by the cable fasteners.</p>	
Step 4:	 <p>In the case of a daisy chain installation, all the MLUM systems must be fastened in accordance with steps 1 and 2.</p>	
Step 5:	 <p>Once all the MLUM systems have been fastened in accordance with the national and regional regulations, they can be connected together with jumper cables. Remove the protective cap before plugging in and turn the connector to the correct position without applying pressure. Then engage the connector by pressing. Turn it gently in the opposite direction to check that the connector is properly engaged.</p>	

<p>Step 6:</p>	 <p>Use jumper cables to connect the MLUM system to the RRH. The connectors can be engaged in the available ports by applying gentle pressure. Turn the connector in the opposite direction to check that it is properly engaged. Please refer to the general instructions in the user manual for guidance on handling cables and laying multi-connector cables.</p>	
<p>Step 7:</p>	 <p>All jumper cables must be secured according to national and local regulations. The weight of the cable must be supported by the cable fasteners.</p>	
<p>Step 8:</p>	 <p>Once all the jumper cables have been connected, the main feed can be connected to the base station or another signal source. The protective tube must be removed before connecting. When untwisting the protective tube, ensure that the cable is not twisted around its own axis.</p>	
<p>Step 9:</p>	 <p>Connect the MLUM housing to the base station using suitable cables. The connectors can be engaged in the ports provided by applying gentle pressure. Turn the connector in the opposite direction to check that it is properly engaged. Please refer to the general instructions in the user manual for guidance on handling cables and laying multi-connector cables.</p>	

REVISION HISTORY

Revision	Description of detailed changes	Manager/Engineer	Applicable date
Rev. A	First Version	David Neher	2020-07-06