

FLipMouse - IPC/ribbon cable

Fabrication Note v1.0, AsTeRICS Foundation



Scope

In the construction kit, a flat ribbon cable is included. This cable already has a connector mounted, which is of the Würth WR-MM series.

Because this crimping connector can be attached wrong, we already mount it before including the cable in the construction kit.

The insulation of the ribbon cable is also removed and the cable is tinned.

Preparation

Material

Nr.	Description	Source	Image
1	70mm 6pin flat ribbon cable, 1.27mm spacing, 28AWG	Electronic distributor	TBD.
2	2x 6pin WR-MM Connector (690157000672)	Electronic distributor	TBD.

Note: Material will be referenced in square brackets: []

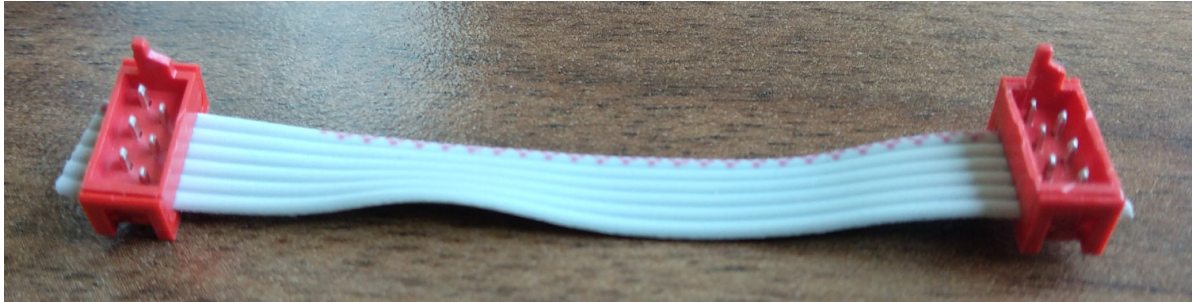
Tools

Nr.	Description	Source	Image
1	Crimping tool or vise	DIY store. A 3D printed insert for tools is available in the folder "tools"	TBD.

Note: Tools will be referenced in curly brackets: {}

Procedure

1. Crimp the Würth connector [2] with either a vise or a crimping tool {3}. **Note:** take care of the orientation, like shown in this picture! (red wire is marked pin one of the connector)
2. Repeat for the second connector



Testing

Tools

None

Procedure

1. Visually check both connectors if the clips are in locked position

Documentation

TODO: do we need documentation for this step? If yes, copy a template from a different fabrication manual.