

**256MEA-STIM-C-Con**

**Connector for Electrode Stimulation  
of 256MEAs in USB-MEA256-Systems**

Connector for inserting the stimulation cable CB and / or CR from the STG into the provided stimulation sockets of the USB-MEA256-System.



Stimulation cable CB (black) and CR (red) with connected adapter.

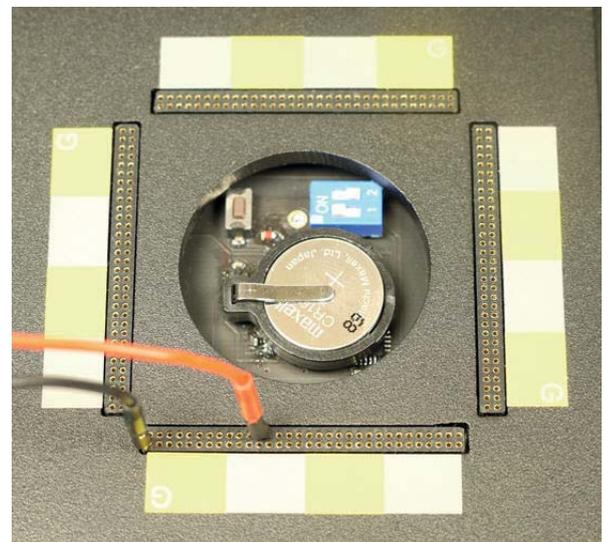


The stimulation cables have 0.76 mm connectors on the head for the adapter, and 2.0 mm connectors on the head for the stimulus generator.

**Application**

The electrodes of the 256MEA can also be used for electrical stimulation. Around the 256MEA, there are two rows of connection sockets on each side. There is one socket for each electrode and four ground sockets. These sockets can be used to connect each electrode to a STG, for example, a stimulus generator of STG4000 series from Multi Channel Systems MCS GmbH. The ground sockets can be used to connect other devices, like the stimulator or the perfusion to the systems ground. You will find the layout map of the sockets in chapter "Pin Layout" in the "Appendix" of the USB-MEA256-System manual.

To make it easier to find the correct socket for each electrode, stickers are included to color code the electrode sockets in four blocks of 2 x 8 sockets, corresponding to the color code used in the layout map in chapter "Pin Layout". If you want to do electrical stimulation, please attach the stickers as shown in the image above. The edge of the sticker has to be aligned with the first pair of sockets.



USB-MEA256-System contact unit (top view) with signal generator 256MEA-SG and stimulation cable CR (red) for stimulation of an electrode, and cable CB (black) for grounding the system.