

## StimSwitch Cables, Accessories



### Overview

The StimSwitch system permits stimulation and perfusion of multiple wells in a multi-well plate. To accommodate various microscopes, stimulators, and perfusion systems, IonOptix provides several different accessory options for the StimSwitch system.

The StimSwitch system has two main connector types, a DB9 female connector on the source of the stimulation and an AMP Micro-MaTch 10 pin female connector on the stimulation lid. This cabling system permits stimulation of up to 8 individual wells (8 wells plus 1 ground line) although we presently only use 6.

### Cable Sets

IonOptix has produced several different cables and adapter plates that can be assembled into sets as appropriate to support different microscopes.

Part Number	Description	Contents	Picture
STS-6M-CAB-S1/INV	Cable for generic research microscope or CytoCypher HTS series 1 microscopes.	<ul style="list-style-type: none"> <li>Z-AC-STS-6M-5FT* cable</li> </ul>	
STS-6M-CAB-KIT-S2	Cables for CytoCypher HTS series 2 and greater microscopes.	<ul style="list-style-type: none"> <li>Z-AC-STS-6M-8IN* cable</li> <li>Z-C-DB9-MF-6FT* DB9 cable</li> <li>Z-MC-STS-S2PORT* CytoCypher HTS Microscope Access Port</li> </ul>	

*\*Internal part number(s). For reference only. Please order using the appropriate STS part number.*

The individual components of these sets are described in detail below.

## DB9-MM10 Cables

IonOptix DB9 to Micro-MaTch cables come in several lengths to address different application needs. The general specifications of the cables are the same for all cable lengths.

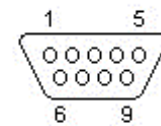
### Specifications

Name	Value			Units
	Min.	Nom.	Max.	
Voltage	-	40	50	V
Current	-	250	500	mA

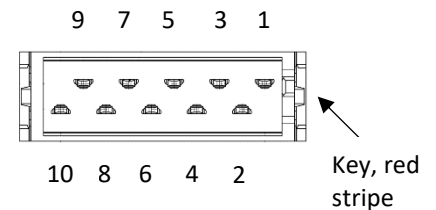
### Pinouts

Pin	Description	Pin	Description
1	Well 1	6	Well 2
2	Well 3	7	Well 4
3	Well 5	8	Well 6
4	Well 7	9	Well 8
5	GND		

Pin	Description	Pin	Description
1	Well 1	6	Well 6
2	Well 2	7	Well 7
3	Well 3	8	Well 8
4	Well 4	9	GND
5	Well 5	10	NC



DB-9 Male



Micro-MaTch 10 Male

### Cable Options


Length	Part Number	Picture
8 inches	Z-AC-STS-6M-8IN*	
5 feet	Z-AC-STS-6M-5FT*	

\*Internal part number(s). For reference only. Please order the appropriate STS kit as given in [Cable Sets](#) above.

## DB9 Male – Female Cables

In some configurations, we use a standard 9 pin serial cable as an extension cable. This must have a male connector on one end and a female connector on the other. It must also have all 9 conductors in a straight through configuration (not cross wired).


Our normal cable is a 2-meter cable.

Length	Part Number	Picture
2m	Z-C-DB9-MF-6FT*	

\*Internal part number(s). For reference only. Please order the appropriate STS kit as given in [Cable Sets](#) above.

## CytoCypher HTS Microscope Access Plate

IonOptix provides an access plate to permit feeding the StimSwitch cables and perfusion tubing through the wall of the CytoCypher HTS Microscope Series 2 and greater access port with minimal disruption of internal microscope environmental control.

Part Number	Picture
Z-MC-ST5-S2PORT*	

\*Internal part number(s). For reference only. Please order the appropriate STS kit as given in [Cable Sets](#) above.

