



# Installation guide

M•Flex S/XP PA speakers



## Content

<b>Cables/plugs</b>	How to connect audio cables and plugs	3
<b>Sub</b>	Rear panel interface for M•Flex S subwoofer	4
	How to use M•Flex Sub with M•Flex 12/15 and a mixer	5
<b>Passive</b>	Rear panel interface for M•Flex 12XP/15XP and SXP	6

Every effort has been taken to ensure that the content of these instructions are correct. Mach Speakers A/S does not accept any liability for loss or damage caused or alleged to be caused directly or indirectly by these instructions. The contents of the instructions may be subject to change without notice. Mach Speakers A/S makes no warranty of any kind with regards to these instructions.

© 2003 Mach Speakers A/S, Denmark.

All rights reserved. No part of these instructions may be reproduced, in any form or by any means, without permission in writing from Mach Speakers A/S, Denmark.

Mach Speakers A/S • Perspektivvej 2 • 9900 Fredrikshavn • Denmark  
Tel: +45 72 15 08 52 • Fax: +45 98 43 14 15 • e-mail: Mach-Service@martin.dk

# How to connect audio cables and plugs

On the following pages you will find information about how to hook up your M-Flex speakers. To save time and a lot of sweat and tears please follow these instructions carefully. Before you start make sure that all cables are without damages and the plugs are clean and dry.



Note

*Make sure only to use good quality audio cables, plugs and connectors with the M-Flex products. When connecting plugs to cables please follow this connection guide carefully. If there is any doubt about how to connect a specific plug please contact the supplier.*

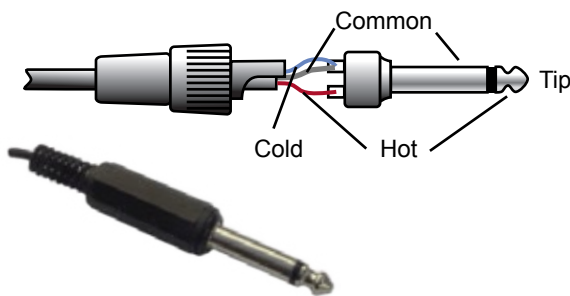


IMPORTANT

*Remember to bring the power cord at all times, as the professional PowerCon mains connector is only available from specialized suppliers.*

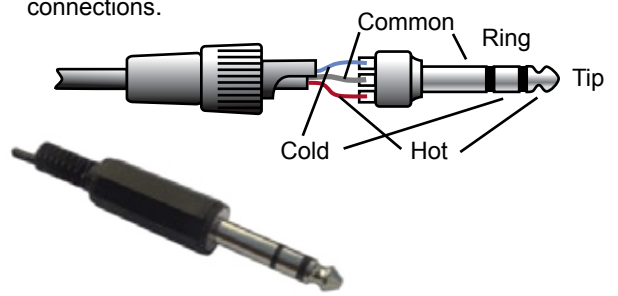
## TS plug (mono)

Standard mono (unbalanced) phone plug, used in the **Line1, Line2, Mix.Out** and most mixer connections.



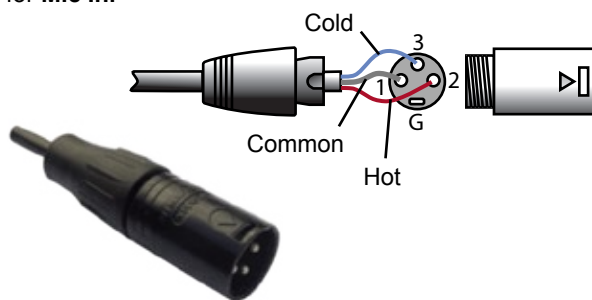
## TRS plug (stereo)

Standard stereo (balanced) phone plug, used in **Line1, Line2, Mix.Out** and for balanced mixer connections.



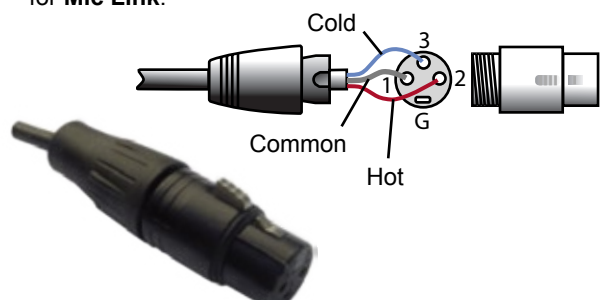
## Balanced XLR plug (male)

Standard XLR plug for microphone connector, used for **Mic In.**



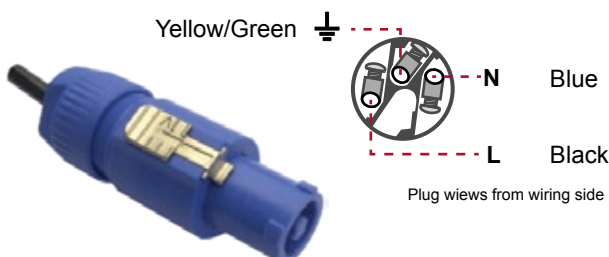
## Balanced XLR plug (female)

Standard XLR plug for microphone connector, used for **Mic Link.**



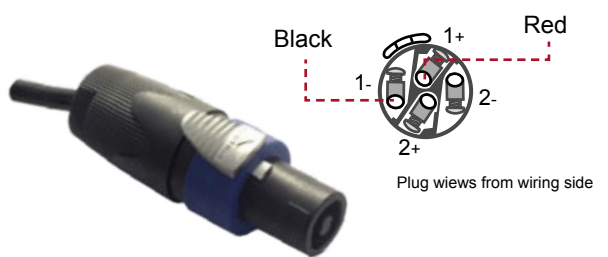
## Industrial Connectors / PowerCon®

Locking 3 pole equipment AC connector for 110/250 V AC. High current capacity (up to 20 A).



## Speakon®

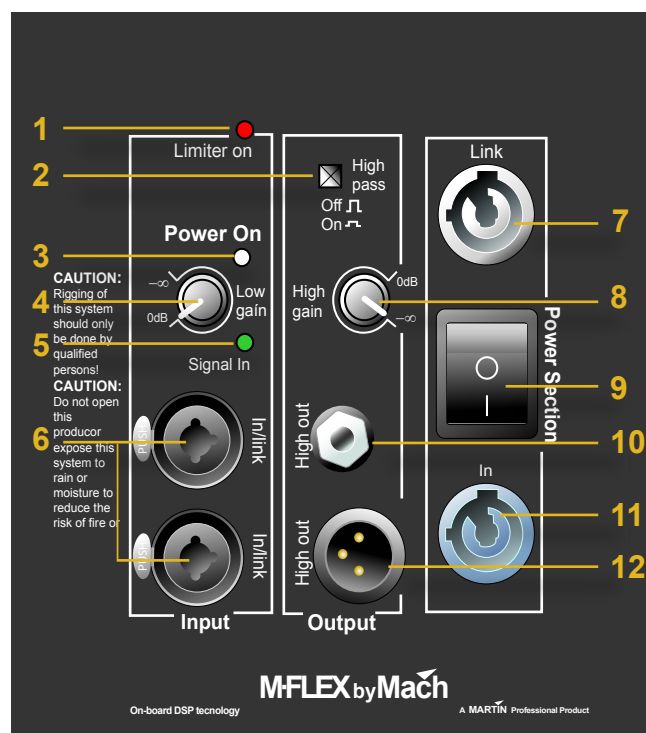
4 pole cable connector with latch lock. Internates with 4-pole chassis connector and makes contact with +1/-1.



## Rear panel interface for M•Flex S subwoofer

M-Flex Sub products feature build-in switch-mode amplification and analogue cross over. As such it represent the next generation of composite moulded speaker design. The amplifier interface is the connection panel which is mounted on the backside of the speaker. The connection panel has several connectors and adjustments controls which will be described on the following pages.

This section describes the rear panel interface on the M-Flex S



### 1. Limiter on

Red LED indicates when the limiter is active.

### 2. High pass selector

On: High pass filter cuts the frequency on the output at 110 Hz.

Off: High pass filter cuts the frequency on the output at 35 Hz.

### 3. Power on

Blue LED indicates when AC power in on. The LED turns off when the unit is in standby waiting for signal.

### 4. Low gain controller

Adjust the bass output of the speaker from  $(-\infty, 0 \text{ dB})$ .

### 5. Signal in

Green LED indicates that the unit is receiving signal.

### 6. In&link

This XLR/JACK enables you to link the Line input signal to other M-Flex speakers. It is a passive through link so the output of the signal of the plugs is similar to the input signal.

### 7. Link

Main Power through connection link.

### 8. High gain

Adjust the signal output of the **High out** from  $(-\infty, 0 \text{ dB})$ .

### 9. Power switch

When turning on the M-Flex speaker, make sure that all sources such as mixer, musical instruments or CD players have been turned on, and the input gain controls have been turned down.

### 10. High out

Balanced JACK plug output.

### 11. Power plug

The enclosed power cable feature a Neutric PowerCon plug.

### 12. High out

Balanced XLR plug output.

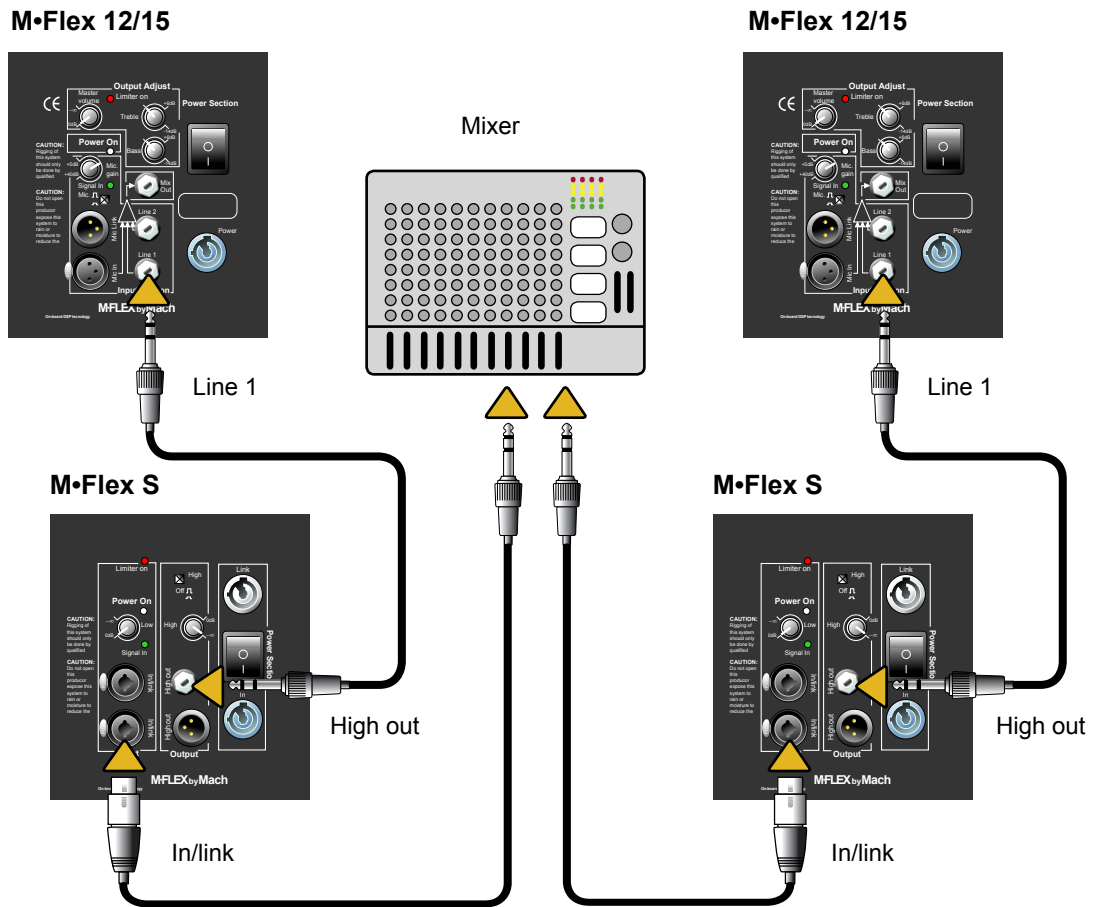


Note

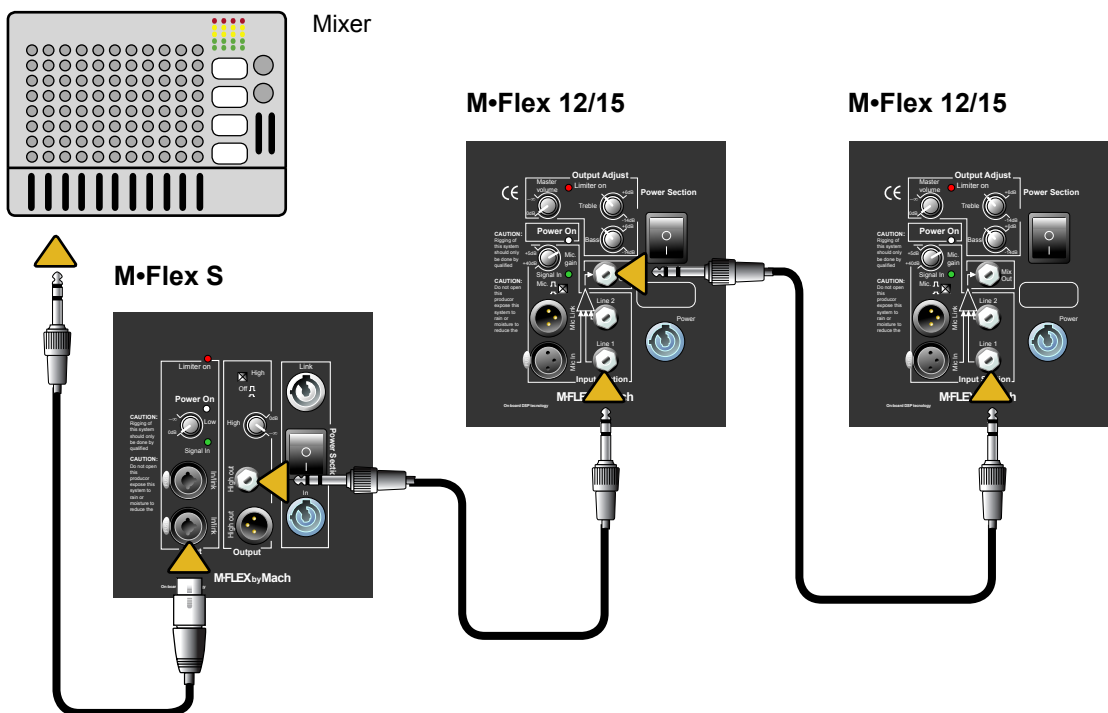
*If the High pass selector is in off mode the speaker connected to the output will receive a full range signal. (the same signal as the sub and the same frequency).*

# How to use M•Flex Sub with M•Flex 12/15 and a mixer

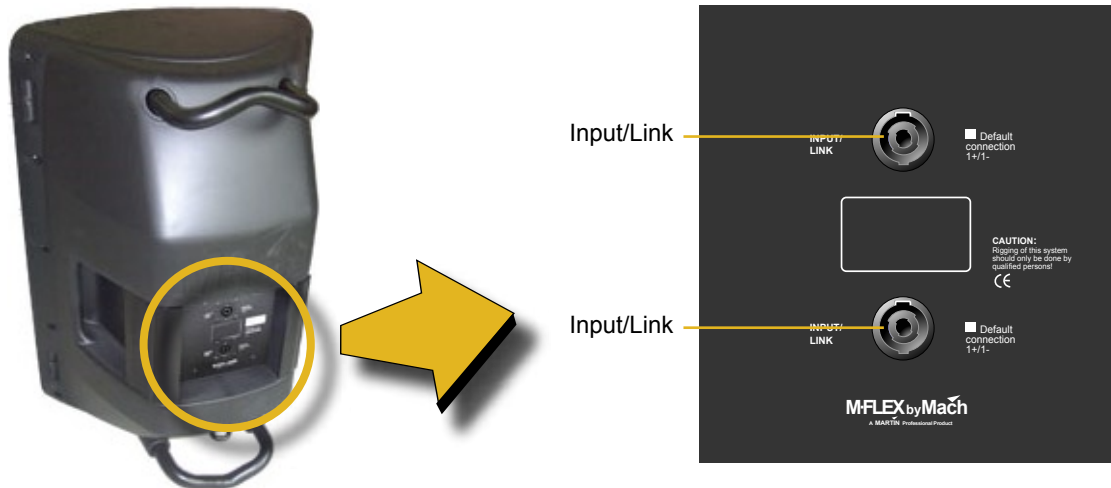
## Stereo setup with two M•Flex S, two M•Flex 12/15 and a mixer



## Mono setup with one M•Flex S, two M•Flex 12/15 and a mixer



# Rear panel interface for M•Flex 12XP/15XP and SXP



The M•Flex XP series consists of three models. M•Flex 12XP, M•Flex 15XP and the M•Flex SXP sub woofer. All models feature a Speakon speaker terminal with link option. This option allows two or more speakers to be operated in parallel from one amplifier.



Note

*The impedance is 4 ohm when two M•Flex XP speakers are operated in parallel and approximately 2,5 ohm when three are operated in parallel.*

## Stereo setup with two M•Flex SXP, two M•Flex 12XP/15XP and a mixer

