ALLEN & HEATH

GL2

RACK MOUNT MIXER

THE BENEFITS OF USING SYS-LINK

The **GL2** SYS-LINK option allows console to console interconnection by means of a single cable. By connecting two **GL2** consoles together the number of input channels may be doubled. One console acts as a channel expander (slave) of the second (master). Up to 4 consoles may be 'daisy-chained' in this way.

Plugging consoles together using SYS-LINK connects the signals directly to the console busses so avoiding the use of the main console outputs and channel inputs for the master/slave connection. All the console channels are available to the user for input sources.

SYS-LINK CONNECTIONS

SYS-LINK connects all the console main outputs including L, R, 4 Groups and 6 Aux sends. The PFL/AFL system is also interconnected such that operating PFL or AFL on the slave console activates the master console monitor system. Operating PFL or AFL on the master does not activate the slave monitor system which may be used for 'local' monitoring if required. SYS-LINK connects the PFL/AFL audio mix and DC control busses.

SYS-LINK outputs are taken **pre-fader** so that the slave console output connectors may be used for sub-mix or 'zone' feeds if required. All output signals are separately buffered, unbalanced, low impedance and operate at a line level of -2dBu to prevent problems with audio interference and to maintain the console headroom of 23dB.

SYS-LINK inputs are presented directly to the console mix busses, are unbalanced line level at -2dBu, and are high impedance to prevent loading the connected source.

SYS-LINK is presented on two 25way female D-type connectors, one for the console buss inputs and the other for the outputs. Several pins are provided for audio 0V earth.

USING SYS-LINK

Connect **GL2** consoles using a standard 25way male to male D-type cable, available from any *ALLEN & HEATH* appointed agent (part AL0583 / ZX000-367 1 metre IDC ribbon) or from computer shops (25line male to male). It is advised that this cable is a screened type if longer than 1 metre, no longer than 3 metres in total, and that locking connectors are used. Connect the slave console SYS-LINK output to the master console SYS-LINK input.

SYS-LINK may also be used to connect the **GL2** to other audio equipment. Make sure that all unused inputs (except the PFL/AFL DC inputs) are linked to 0V earth at the SYS-LINK input to prevent audible interference from connected audio signals. Connect line level signals of around -2dBu. The **GL2** PFL/AFL system may be activated by switching the PFL or AFL DC input to 0V earth through a 15k ohm resistor.
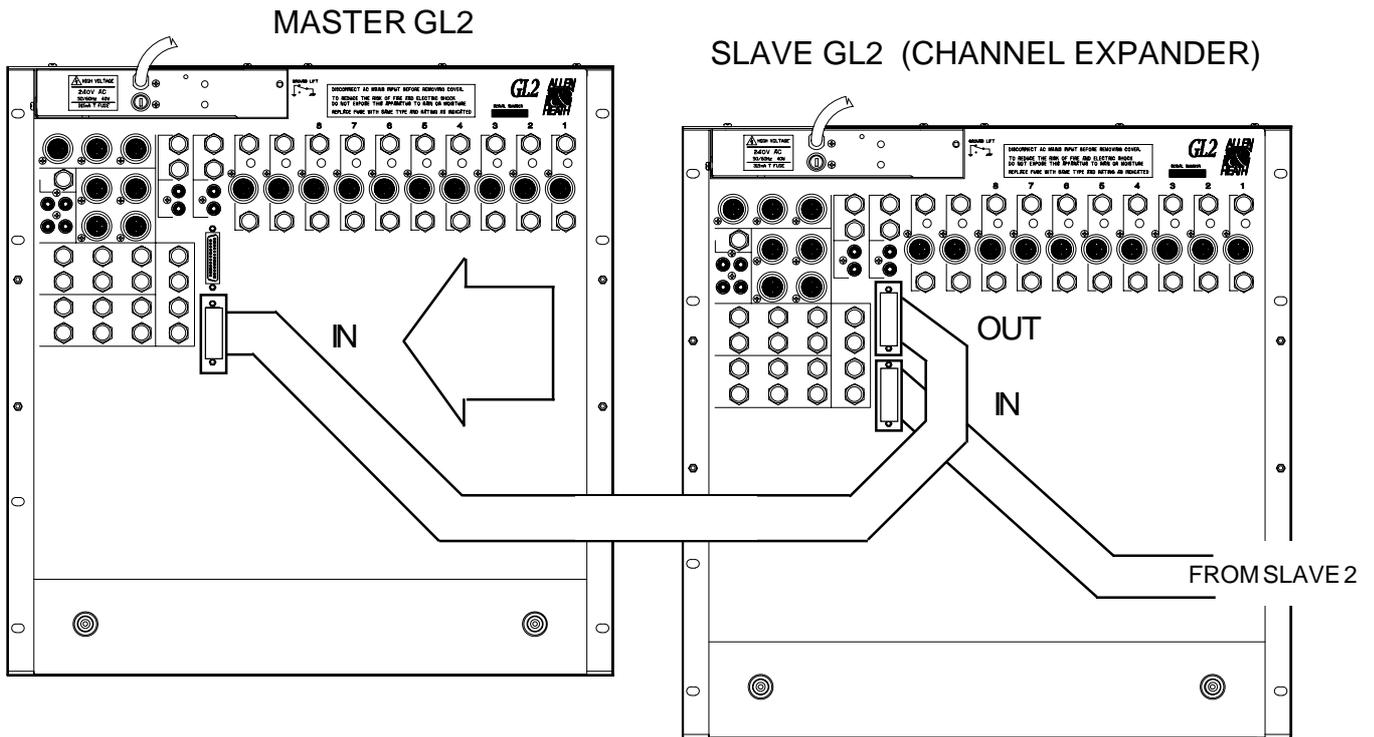
For information on fitting SYS-LINK please refer to FITTING INSTRUCTIONS AP0204
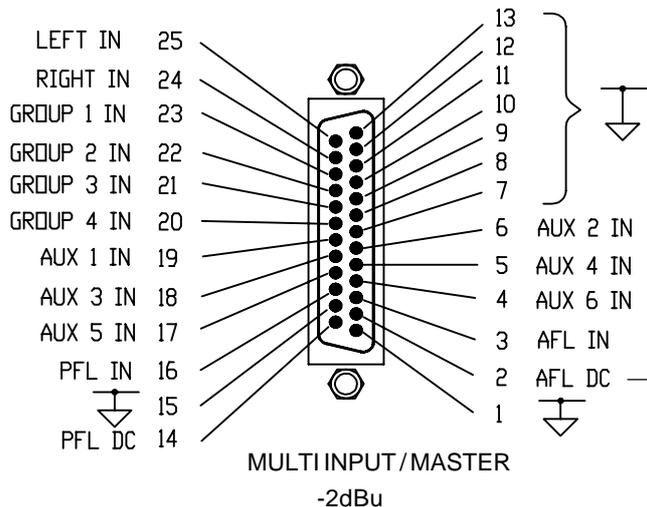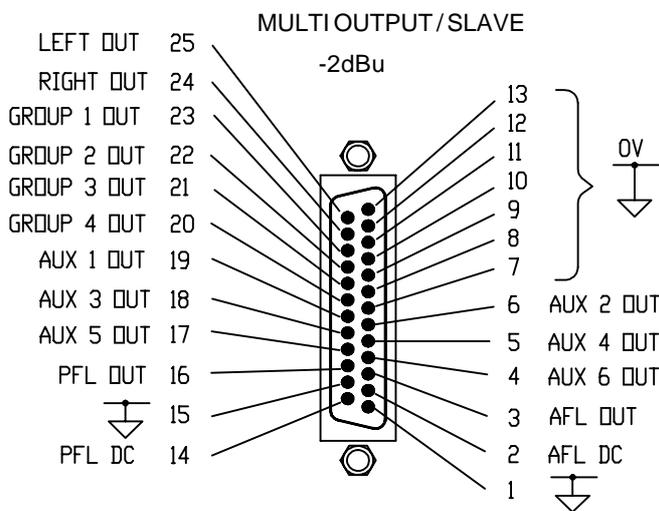
SYS-LINK APPLICATIONS NOTE

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CONSOLE TO CONSOLE CONNECTION USING SYS-LINK

MASTER GL2

SLAVE GL2 (CHANNEL EXPANDER)

IN

OUT

IN

FROM SLAVE 2

GL2 REAR PANEL VIEW

MULTI OUTPUT / SLAVE
-2dBu

LEFT OUT	25	
RIGHT OUT	24	
GROUP 1 OUT	23	13
GROUP 2 OUT	22	12
GROUP 3 OUT	21	11
GROUP 4 OUT	20	10
AUX 1 OUT	19	9
		8
AUX 3 OUT	18	7
AUX 5 OUT	17	6 AUX 2 OUT
PFL OUT	16	5 AUX 4 OUT
	15	4 AUX 6 OUT
PFL DC	14	3 AFL OUT
		2 AFL DC
		1

0V

SYS-LINK connectors are 25way D-type female.
Use 25way D-type male to male connector cable.

OUT

Line level output at -2dBu
Unbalanced, buffered, in-phase
Low impedance < 75 ohms

PFL/AFL DC output is direct
connection to console busbars.

All outputs are **pre-fader**

LEFT IN	25	13
RIGHT IN	24	12
GROUP 1 IN	23	11
GROUP 2 IN	22	10
GROUP 3 IN	21	9
GROUP 4 IN	20	8
AUX 1 IN	19	7
		6 AUX 2 IN
AUX 3 IN	18	5 AUX 4 IN
AUX 5 IN	17	4 AUX 6 IN
PFL IN	16	3 AFL IN
	15	2 AFL DC
PFL DC	14	1

MULTI INPUT / MASTER
-2dBu

IN

Line level input at -2dBu
Unbalanced, in-phase
High impedance = 22k ohm
When connecting to other
audio equipment (not GL2) link
all unused audio inputs to 0V
earth at the SYS-LINK input.

PFL/AFL DC input is through internal diode so
that Slave activates Master PFL/AFL but Master
does not activate Slave.

To activate PFL or AFL: Switch the DC input to
0V earth through a 15k ohm resistor. Connect
the audio signal to PFL or AFL IN.