

64-Channel Electrode Connector Box A

Introduction to the 64-channel electrode connector box A

The 64-channel electrode connector box **A** splits up 64 different electrode signals to a g.tec amplifier (g.[®] Hlamp, g.[®] USBamp) and a second amplifier system. The box has 64 red color coded 1.5mm safety sockets to connect the appropriate electrodes and two yellow color coded sockets to connect the ground electrodes. The two yellow sockets are **not** interconnected to have two different grounds for each system. If both systems should use the same ground this sockets must be connected via a jumper cable.

The splitted signals are connected via the corresponding 65pin multi pole connector AMP1 to the g.tec system and AMP2 to the second amplifier system

Attention when using a g.USBamp system: Only channels 1 to 64 are connected to a 64-channel g.[®] USBamp system by the 65 pin multi pole connection cable. One GND electrode must be connected separately by the corresponding yellow connection cable to a g.USBamp GND input socket. One REF electrode must be also connected separately by the corresponding blue connection cable to a g.USBamp REF input. On the g.USBamp all other GND sockets and REF sockets within one g.USBamp amplifier must be interconnected by software. Across the amplifiers the GND sockets of group A must be connected via the corresponding jumper cable and the REF sockets of group A must also be connected via the corresponding jumper cable.

Attention when using a g.Hlamp system: Channels 1 to 64 **and** the GND channel are connected by the 65-pin multi pole connection cable.

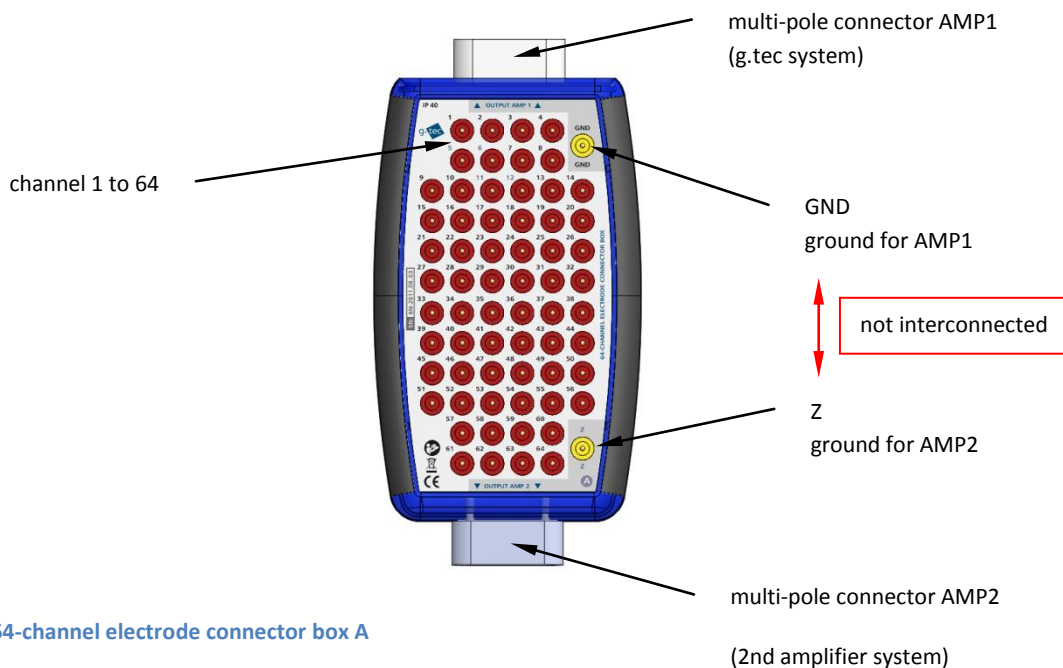

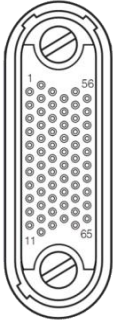
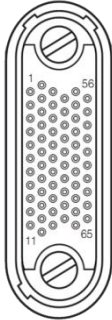


Figure 1: 64-channel electrode connector box A

Channels	Channel 1 to channel 64 for connecting standard electrodes
GND	Ground socket to connect patient ground electrode for AMP1 (g.tec system)
Z	Ground socket to connect patient ground electrode for AMP2 (2nd amplifier system)
OUTPUT AMP1	Multi pole socket to connect the multi-pole connector to g.tec system
OUTPUT AMP2	Multi pole socket to connect the multi-pole connector to the 2nd amplifier system

PIN assignment of the 64-channel electrode connector box A to both LEMO EGG.1R.365GLN

			
64-channel electrode connector box A	LEMO EGG.1R.365GLN (OUTPUT AMP1)	LEMO EGG.1R.365GLN (OUTPUT AMP2)	Function
1	1	1	Channel 1
2	2	2	Channel 2
3	3	3	Channel 3
.	.	.	.
.	.	.	.
.	.	.	.
63	63	63	Channel 63
64	64	64	Channel 64
GND	65	Not connected	Signal GND 1
Z	Not connected	65	Signal GND 2

64-Channel Electrode Connector Box B

Introduction to the 64-channel electrode connector box B

The 64-channel electrode connector box **B** splits up 64 different electrode signals to a g.tec amplifier (g.[®] Hlamp, g.[®] USBamp) and a second amplifier system. The box has 64 red color coded 1.5mm safety sockets to connect the appropriate electrodes and one yellow color coded socket to connect the ground electrode for the g.tec system. The 64-channel electrode connector box B must be used in connection with the 64-channel electrode connector box A.

The splitted signals are connected via the corresponding 65pin multi pole connectors AMP1 to the g.tec system and AMP2 to the second amplifier system

Attention when using a g.USBamp system: Only channels 1 to 64 are connected to a 64-channel g.[®] USBamp system by the 65 pin multi pole connection cable. The GND socket (ground for AMP1) is not connected to the amplifiers. See 64-channel electrode connector box A for proper connection to g.USBamp.

Attention when using a g.Hlamp system: Channels 1 to 64 **and** the GND channel are connected by the 65-pin multi pole connection cable.

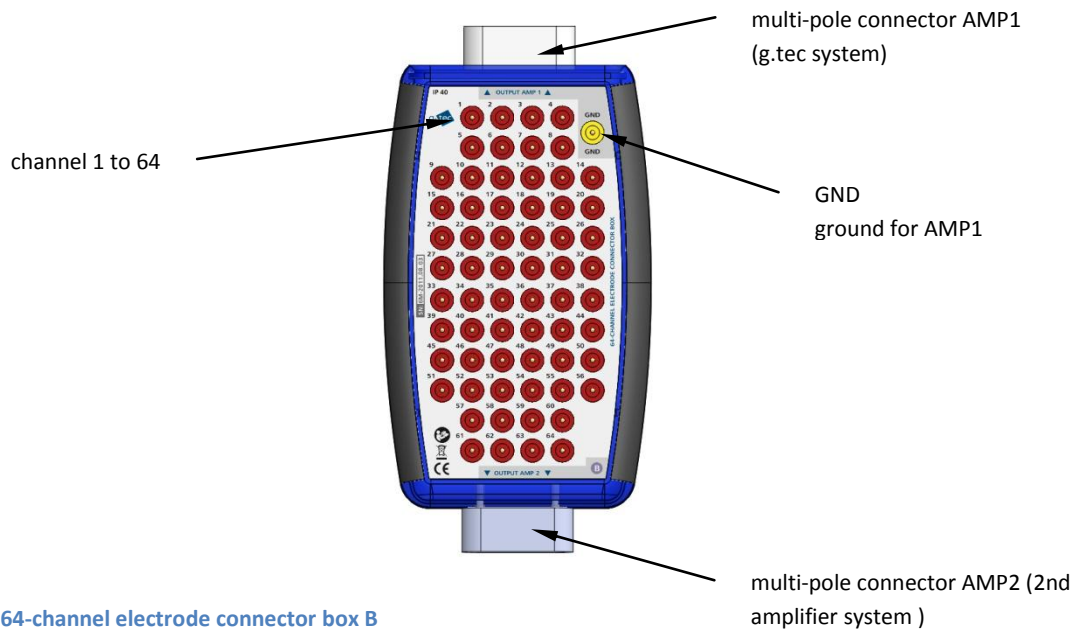

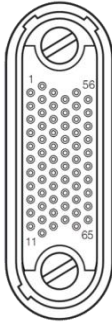
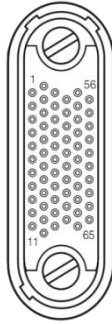


Figure 2: 64-channel electrode connector box B

Channels	Channel 1 to channel 64 for connecting standard electrodes
GND	Ground socket to connect patient ground electrode for AMP1 (g.tec system)
OUTPUT AMP1	Multi pole socket to connect the multi-pole connector to g.tec system
OUTPUT AMP2	Multi pole socket to connect the multi-pole connector to 2nd amplifier system

PIN assignment of the 64-channel electrode connector box B to both LEMO EGG.1R.365GLN

			
64-channel electrode connector box B	LEMO EGG.1R.365GLN (OUTPUT AMP1)	LEMO EGG.1R.365GLN (OUTPUT AMP2)	Function
1	1	1	Channel 1
2	2	2	Channel 2
3	3	3	Channel 3
.	.	.	.
.	.	.	.
.	.	.	.
63	63	63	Channel 63
64	64	64	Channel 64
GND	65	Not connected	Signal GND 1