

Data sheet

Cables, connectors, and pin configurations



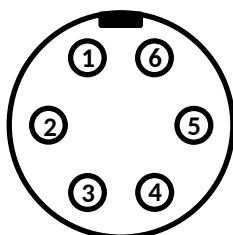
1. Standard cable set of a 4-axes system

Cables included in standard delivery	Quantity	Length
Detector → Controller (4x MCX → Lemo)	2	Adapter cable: 16 cm
	2	Extension cable: 4 m
Actuator → Controller (Lemo → Lemo)	2	P2S30: 2 m (fixed)
		P4S30: 2 m
		PKS: 1.5 m
		PSH: 1.5 m
	1	Extension cable: 10 m
x/y measurement cables (Lemo → BNC)	2	2 m
Cable of power supply	1	2x 2.1 m (Power supply in the middle)

2. Detector cable (VIS, UV, IR, WID, PSD)

All following descriptions of the pinouts show the respective external view of the sockets or plugs. If you want to make your own cables, you have to mirror the graphics for the view of the solder side. The black circles with white numbers shows the pins, the white circles with black numbers show the sockets.

2.1. Plug at controller



Lemo EPG.0B.307.HLN

Pin	Signal
1	GND
2	+ 12 V
3	GND
4	x signal
5	y signal
6	intensity
7	-
Shield	GND

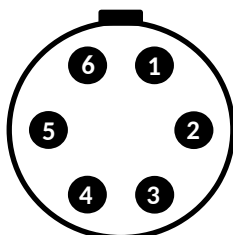
2.2. Adapter cable 4x MCX → Lemo

Connectors:

3x MCX connector (x/y- and I signal)

1x MCX plug (power supply)

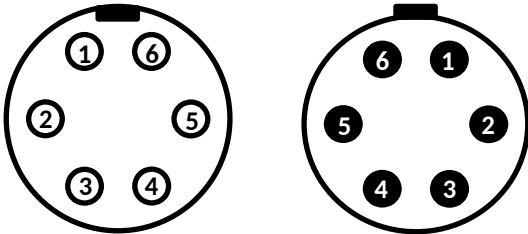
1x Lemo FGG.0B.306.CLAD52



Lemo FGG.0B.306.CLAD52

Pin	Signal	Color
1	GND	
2	+ 12 V	red
3	-	
4	x signal	white
5	y signal	white
6	intensity	white
Shield	GND	

2.3. Extension cable Lemo → Lemo



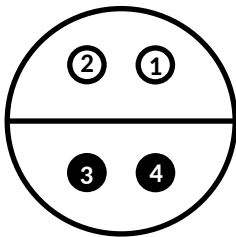
Lemo FGG.0B.306.CLAD52, PHG.0B.306.CLLD52

Pin	Signal	Color
1	GND	brown
2	+ 12 V	green
3	-	yellow
4	x signal	gray
5	y signal	pink
6	intensity	white
Shield	GND	

3. Actuator cable (P2S30, P4S30, PSH, PKS)

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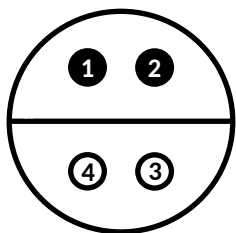
3.1. Plug at controller



Lemo EPL.0S.304.HLN

Pin	Signal
1	y signal
2	x signal
3	+ 122 V
4	GND
Shield	GND

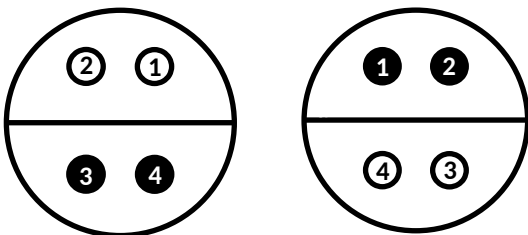
3.2. Cable at actuator (fixed assembled)



Lemo FFA.0S.304.CLAC32

Pin	Signal	Color
1	y signal	white
2	x signal	brown
3	+ 122 V	blue
4	GND	black
Shield	GND	

3.3. Extension cable Lemo → Lemo



Lemo PCA.0S.304.CLLC32, FFA.0S.304.CLAC32

Pin	Signal	Color
1	y signal	white
2	x signal	brown
3	+ 122 V	blue
4	GND	black
Shield	GND	

4. Cables for controller options

Description	Quantity	Length
USB cable (USB A → micro USB B)	1	2 m
Ethernet cable	1	2 m
RS-232-cable (Sub-D → Lemo)	1	1.7 m
Cable for triggering the Sample&Hold "ADDA" (BNC → Lemo)	2	2 m
Cable for Adjust-In, Drive Actuator (2x BNC → 3-pin Lemo)	2	2 m
Cable for Range signals (2x BNC → 3-pin Lemo)	2	2 m
Cable for external activation, intensity, P-factor (BNC → Lemo)	2	2 m

We have a separate data sheet for vacuum-compatible cables.



Contact

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Subject to change without prior notice.