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BSLCBL CABLE SERIES

BSLCBL1A: Stimulator to Nerve Chamber ï Standard Banana Plug
BSLCBL2A: Stimulator to Nerve Chamber ï 2 mm Pin (Mini-Banana) Plugs
BSLCBL3A: Nerve Chamber to BSL ï Standard Banana Plugs
BSLCBL4B: Nerve Chamber to BSL ï 2 mm Pin (Mini-Banana) Plugs
BSLCBL5: 3.5 mm Phone Plug
BSLCBL6: Stimulator to Output ï 3.5 mm Mono Male Phone Plug
BSLCBL7: Stimulator to Electrode ï BNC to 2x Alligator Clip
BSLCBL11: Stimulator to Electrode ï BNC to 2x Electronic Test Clip (spring-loaded)
BSLCBL12: Stimulator to Electrode ï BNC to 2x Toothless Alligator Clip
BSLCBL8/9: High Impedance ï 1.5 mm Touchproof
BSLCBL14A: MP36/35 Input Adapter for Research Amplifiers

Interface Cables

Stimulator to Nerve Chamber

Interface the BSL Stimulator with nerve conduction chambers. A BNC connector interfaces with the stimulator and two plugs attach to the nerve chamber.

Gold-plated

Stackable ground

Length: 1.2 meters

Pin Plugs: 2 mm (OD)

Standard Banana Plugs: 4 mm (OD)

Nerve Chamber to Biopac Student Lab

Interface nerve conduction chambers with the Biopac Student Lab System; use to record the signals coming from the nerve. A BSL DSUB 9 connector interfaces with the Biopac Student Lab MP3X unit and two plugs attach to the nerve chamber.

Length: 1.2 meters

BSLCBL3A/4B Specs

Gain: 1/10 (divide by 10)

Input Impedance (single-ended and common-mode): 5e11 Ohms (500 GigaOhms)

Common-Mode Rejection: 90 dB Typical

Input Bias Current: 3 pA Typical, 100 pA

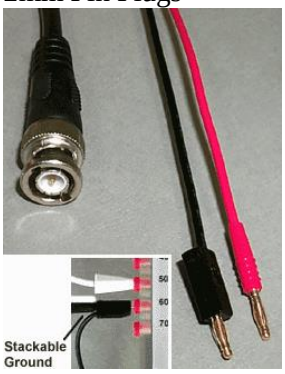
Maximum Voltage Noise: 1.3 µV p-p (0.1-10 Hz)

Voltage Noise Density: 36 nV /SQRT(Hz)

Current Noise Density: 0.01 pA /SQRT(Hz)

BSLCBL1A
Banana Plugs

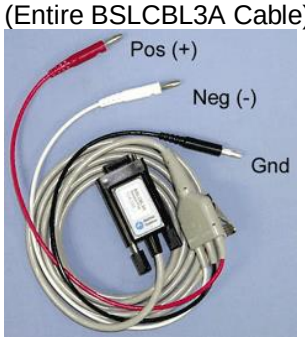
BSLCBL2A
2mm Pin Plugs



BSLCBL3A
Banana Plugs

BSLCBL4B
2mm Pin Plugs

(Entire BSLCBL3A Cable)



(Entire BSLCBL4B Cable)

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3.5 mm Phone Plug Adapter

Use BSLSBL5, 1.7 meters (included with TSD122). The cable has a built-in attenuation of 1/200, which translates 10 V to 50 mV.

Stimulator to Output

Use BSLCBL6 to interface the BSL Stimulator with 3.5 mm Mono Phone Jack outputs, like the OUT100 Headphones or the OUT101 Tubephone set for auditory stimulation. Required for Auditory Evoked Response experiments. Use with OUT3 for MP36 built-in low voltage stim.

Length: 1.3 meters

BSLCBL5

3.5 mm Phone Plug

BSLCBL6

3.5 mm Mono Phone Jack

Stimulator to Electrode

BSLCBL7,

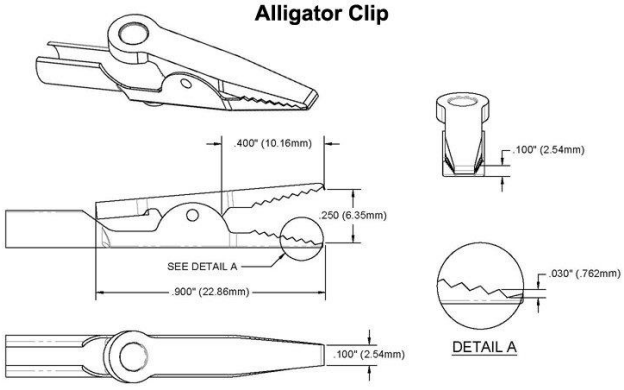
BSLCBL11, and

BSLCBL12

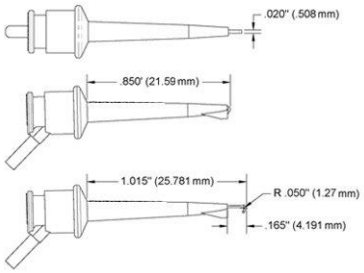
BSLCBL7 - BNC to 2x Alligator Clip
BSLCBL11 - BNC to 2x Electronic Test Clip (spring-loaded)
BSLCBL12 - BNC to 2x Toothless Alligator Clip

Use these special electrode lead clips to interface stimulating electrodes, or to connect directly with animal preparations. Each 1-meter cable has two clips And terminates with one BNC connector to interface with BSLSTM, SS58L Stimulator, or OUT3 for MP36 low volt stimulator and silver or platinum wire electrodes.

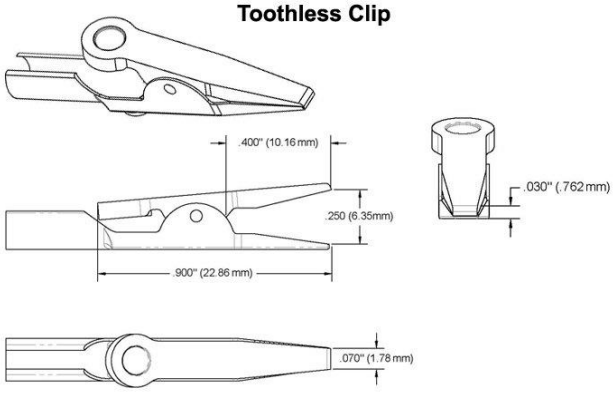
Alligator Clip



Retractable Clip



Toothless Clip



High-impedance cables
BSLCBL8 and
BSLCBL9

These fully-shielded, high-impedance electrode interface cables permit high resolution recording of biopotential signals using reusable electrodes. The adapter terminates with standard 1.5 mm Touchproof electrode connectors to interface reusable electrodes (EL250, EL350, and EL450 series).

IMPORTANT: A ground connection, to the measurement point, is required when using BSLCBL8 or BSLCBL9. This connection is mandatory to allow the internal cable amplifiers to receive the required bias current. The ground connection is made from the center pin of the electrode lead attachment junction at the end of the cable to the preparation/animal/nerve under study.

Typically, a LEAD140 series lead, EL450 series needle electrode or LEAD110 series clip lead is used to establish this ground connection.

BSLCBL8/9 Specifications

Input Range:	BSLCBL8: MP36/36R: ±2 V, MP35: ±1 V, MP30: ±70 mV, MP45: ±2 V
	BSLCBL9: MP36/36R: ±3.8 V, MP35: ±3.8 V, MP30: ±700 mV, MP45: ±3.8 V
Input Impedance:	500 GigaOhm (Single-ended & Common-Mode)
Input Bias Current:	3 pA Typical, 100 pA Maximum
Maximum Voltage Noise:	1.3 µV p-p (0.1-10 Hz)
Voltage Noise Density:	36 nV /SQRT(Hz)
Current Noise Density:	0.01 pA /SQRT(Hz)
Cable length:	2 meters
Interface:	MP3X (DSUB 9)
Gain:	BSLCBL8 (Gain = 1), BSLCBL9 (Gain = 1/10)

MP36/35 Input Adapter for Research Amplifiers
BSLCBL14A

3.5 mm male phone plug adapter with built-in attenuation.

Provides a divide by 10 attenuation to scale the ±10 V signal range of BIOPACôs 100 series modules to the ±2 V (MP36) or ±1 V (MP35) device input ranges.

Interface with MP3X, MP45 or BIOPAC 100 series amplifiers through a connection to either the UIM100 or the IPS100C Isolated Power Supply. (Not compatible with MP30.)