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CBL100 SERIES ANALOG CONNECTION CABLES

The CBL100 Series analog connection cables are used to connect the stand-alone equipment to the MP System. Analog outputs (from chart recorders, force plates, pre-amplifiers, oscilloscopes, etc.) can be connected to the AMI100D, HLT100C, UIM100C module or other MP System modules. It's also possible to use these cables to connect amplifier outputs or D/A outputs to external equipment inputs.

When signal isolation is required, use the INISOA or OUTISOA adapter with the cable. The other end of the isolation adapter connects to the appropriate MP unit channel via the AMI100D/HLT100C module. Select the cable number with the plug corresponding to the equipment's input or output jack. Use one cable per recording channel.

CBL100 2 meter; 3.5 mm mono phone plug to 3.5 mm mono phone plug



CBL101 2 meter; 3.5 mm mono phone plug to male RCA



CBL102 2 meter; 3.5 mm mono phone plug to male BNC



CBL105 2 meter; 3.5 mm mono phone plug to 6.35 mm (¼") mono phone plug



CBL106 10 cm; 2 mm pin plugs to female BNC



The CBL106 is a multi-purpose adapter that can be used to:
Connect BNC terminated equipment to the DA100C
Connect a BNC cable to the digital I/O lines on the UIM100C
Connect the STM100C to nerve conduction chambers (via the CBL102)

CBL107 10 meter, 3.5 mm mono plug to 3.5 mm mono phone plug



CBL108 60 meter, 3.5 mm mono plug to 3.5 mm mono phone plug



CBL110A DB37 F/F Ribbon Cable. Use this 3-meter ribbon cable to interface a SuperLab presentation system with the STP100C Isolated Digital Interface for an MP1xx System. Pins 19 and 21 are GND; pin 20 is +5 V.



CBL110C DB25 M/F Ribbon Cable. Use this 3-meter ribbon cable to send digital I/O info to the STP100C Isolated Digital Interface to interface visual presentation systems that use a computer's parallel printer port (E-Prime, DirectRT, MediaLab, Inquisit, etc.) with an MP1xx System. Pins 18 and 25 are GND.



CBL110C-Y This Y-adapter for the CBL110C parallel port cable allows users to interface the output from a parallel port with two devices, the STP100C and another piece of hardware. DB25 parallel male/dual female Y-splitter; 20 cm (8”).



CBL117 10 meter lightweight coaxial cable with RCA male plug to RCA male R/A plug is included with the following systems; TEL100C, VR100PHYS-W, VR100INTRO-W, VR100ADV-W, VR100ULT.



CBL118 60 meter lightweight coaxial cable with RCA male plug to RCA male R/A plug for TEL100C.



CBL121 This cable will connect Biodex System 4 or System 3 rev2 and above devices to a BIOPAC MP160/150 System to report Torque, Velocity, Position, and Sync values. One end of the 3 meter cable terminates with a dSUB15 male connector to interface the Biodex device, and the other end terminates with four 3.5 mm phone inputs to connect to the MP150 via UIM100C (assuming no MP150 isolation needed) or INISOA to MP160/150 via AMI100D/HLT100C (assuming MP160/150 isolation is required). Isolation is recommended if the MP160/150 system is also connected to subject-connected biopotential modules, such as EMG100C, ECG100C, etc.



Additional details for use with Biodex devices available in BIODEX EMG/ANALOG SIGNAL ACCESS CONFIGURATION UTILITY SOFTWARE – Addendum for System 3 Revision 2 and System 4 Dynamometers.

Important Safety Note: Biodex devices are mains powered equipment. If any other wired (non-BioNomadix) connections from the MP160/150 to the subject exist, this cable must be used with INISOA Input Signal Isolation Adapter with AMI100D/HLT100 High-level Transducer Amp to maintain proper isolation.

CBL122 Unisolated male RJ11 to 3.5 mm female jack, allows a mono 3.5 mm male cable to be interfaced with the AMI100D/HLT100C so connections previously made through the UIM100C can function with the MP160+HLT100C. This cable is unisolated and must not be used with external equipment when a human subject is connected to the MP system unless the external equipment has its own built in isolation. The short (~3 cm) adapter is designed to be connected to another cable.



CBL123 Unisolated RJ11 to BNC Male, 1.8 m cable allows equipment with BNC outputs to a connect directly to an AMI100D/HLT100C when no isolation is required (e.g., animal) without any additional adapters. This cable is unisolated and must not be used with external equipment when a human subject is connected to the MP system unless the external equipment has its own built in isolation.



CBL124 Unisolated RJ11to two 2 mm sockets, this Switch Adapter allows a digital switch (i.e., TSD116A or TSD116B) to be connected to an analog input of the AMI100D/HLT100C. When the switch is open the channel will read zero volts; when the switch is pressed/closed the channel will read 5 volts. This cable is unisolated and should not be used to connect external mains powered equipment or other switches that make electrical contact with the subject.

CBL125 BNC male to BNC male, Nickel Plated, 2 m RG59 Coax cable; typically used to interface the STP100C or STP100C-C to devices that use BNC (Bayonet Neill-Concelman), such as FNIR Imager trigger ports. Typically applied for frequencies below 3 GHz; Ohm Rating: 75.



CBL126 BNC male to female right angle T-Adapter allows the connection of two BNC female connectors. Use this adapter when you want to use a trigger input and record the actual trigger on one of the digital I/O lines. Run an external trigger to the STP100C, via this coupler, to start data acquisition and then run a CBL125 + CBL106 to the STP-IO. Connector A: BNC male, Connector B: BNC female, Connector C: BNC female. 50 Ohm. Brass with nickel plating.



Compatibility with MP160/150 Research Systems

If a different interface is required, contact BIOPAC to discuss custom options. All brand or product names are the trademarks or registered trademarks of their respective holders.

Custom cables are available from BIOPAC for connectors not listed.

Company	Device	Connector Type	BIOPAC cable
AMTI	MSA-6: Force Plate Amp (Use AMTI cable 5405C) MCA: Force Plate Amp (Use AMTI cable 5405C)	BNC female	CBL102
Axon	All Amplifiers	BNC female	CBL102
Buxco	MAX II	3.5 mm mini-phone jack	CBL100
Data Sciences International	Physio Tel Receiver with ART Analog Adapter	BNC female	CBL102
Gould	6600 Series	BNC female	CBL102
Grass	Model 7 (J6)	3.5 mm mini-phone jack	CBL100
	P55, P122, and P511 Series	BNC female	CBL102
Harvard	HSE PLUGSYS AH 69-0026 Dissolved Oxygen Meter	BNC female	CBL102
	AH 60-2994-2999 Research Grade Isometric Transducers AH 6-03000/3001 Research Grade Isotonic Transducers	4 mm double banana jack	CBL102 with CBL106
Kent	TRN(001-012) Amplifiers	BNC female	CBL102
Kissler	Force Plates	BNC female	CBL102
Millar	TCB600: Transducer Control Unit	¼" phone jack	CBL105
	TC-510 (Specify Grass Cable interface #850-3028)	6-pin	TCI100 (to DA100C)
Sonometrics	Sonomicrometer Systems with Optional Adapter	BNC female	CBL102
Transonic	T106, T206, T106U, T206U: Animal Research Flowmeters T110: Lab Tubing Flowmeter BLF21D/21: Laser Doppler Meters	BNC female	CBL102
Triton	CBI System System 6	¼" phone jack	CBL105
Tucker Davis	All Digital BioAmp Systems	BNC female	CBL102
WPI	705: Electro 705 Electrometer 721: Cyto 721 Electrometer 767: Intra 767 Electrometer 773: Duo 773 Electrometer DAM50: Bio-amplifier DBA Series Digital Biological Amps DVC-1000: Voltage Current Clamp EVC-4000-(1-4): Voltage Clamp FD223: Dual Electrometer ISO2: Dissolved Oxygen Meter & Electrode ISODAM: Low Noise Preamplifier ISO-DAM8A-(1-8): Bio-amplifier System NOMK2: ISO-NO Mark II Nitric Oxide Meter TRN001, TRN002, TRN011, TRN012: Isometric Transducers VF-4: 4-Channel Buffer Amplifier	BNC female	CBL102
	DAM60, DAM70, DAM80: Bio-amplifiers	3.5 mm mini-phone jack	CBL100
Biodex	System 3 rev2 and above (with 15 pin female dSUB) System 4 (with 15 pin female dSUB)	3.5 mm mini-phone jack	CBL121

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