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Blackrock MIT to Omnetics Cables

Instructions for Use



Revision 1.00 / LB-0771 – MIT to Omnetics Cables IFU

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What this Manual Covers

This manual covers the specifications and usage of the MIT to Omnetics cables PN 9533, 9534, 10050, 10057, and 10081. It shows hardware details and troubleshooting guidelines, as well as warranty and support information.

Intended Use and Indications for Use

MIT to Omnetics cables provide an interface between a MIT connector and a Male 36-Pin Omnetics connector or two Male 18-Pin Omnetics connector. PN-9533 (12ft), PN-9534 (6ft), and PN-10050 (3ft) have the same pin-outs. PN-10057 (3ft), and PN-10081 (6ft) have the same pinouts. Pinouts for the cables are provided in the hardware section of this manual.

Contraindications, Warnings, and Precautions

Contraindications

- These products are for animal research only.
- Connection of external instruments to the cables may compromise electrical safety.

Warnings

- Do not touch any exposed electrical conductors when the adapter connector is attached to devices on the subject's head as this may result in inducing electric charge to the neural tissue. Irreversible damage may occur.
- The patient/subject should not attempt to remove the connections themselves.
- Use caution when connecting and disconnecting the cable to the headstage to minimize the risk of the cable being accidentally pulled or tugged.
- Do not use the cables in the presence of flammable anesthetic agents or any other reagents.
- Avoid strong static discharges from sources like television or computer monitors because it can damage the electrical components of the system.
- Keep the cables away from liquids. Contact with water, shower spray, or wet surfaces can lead to the patient receiving an electrical shock.
- Always use antistatic or electrostatic discharge (ESD) safe gloves when connecting the cables.

- Use caution when placing cables and other connectors to minimize the likelihood of tripping or accidentally pulling on cables. Pulled cables may cause damage to the headstage or any other connected devices.

Precautions

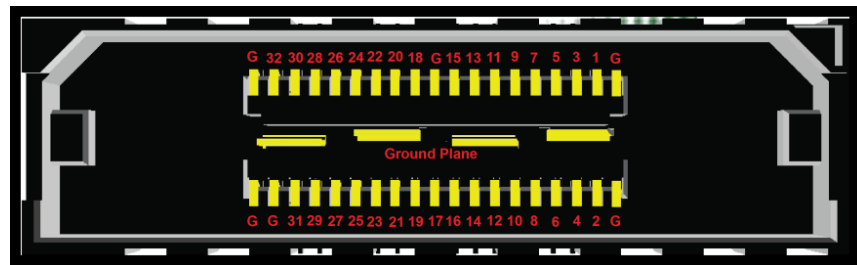
- Read this entire manual prior to using the devices.
- Use only the supplied Blackrock Microsystems components (CereStim, Y-adapter, Blackrock Array). Substitution of components not supplied by Blackrock Microsystems may affect system performance and patient/subject safety.

Specifications

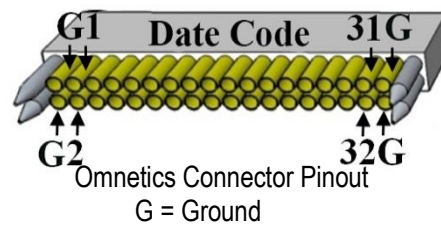
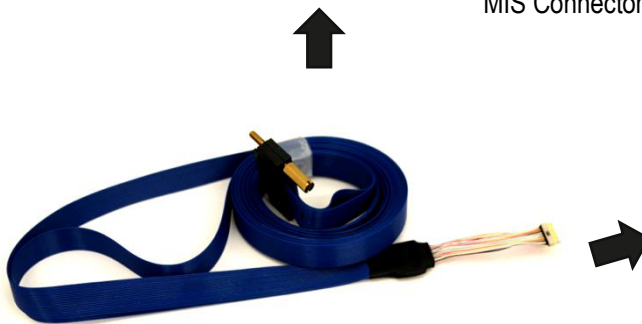
	PN 10050	PN 9534	PN 9533	PN 10057	PN 10081
Model Numbers	Omnetics A79023-001, A79024-001 Samtec HDR-189052-04-MICD			Omnetics A79015-001, A79016-001 Samtec HDR-189052-04-MICD	
Mode of Operation	Continuous				
Length (ft)	3	6	12	3	6
Water Ingress Protection	Ordinary Equipment, not fluid resistant, IP20				
Operating Environment	10°C to 40°C, 5 to 95% R.H. (non-condensing)				
Storage Environment	-20°C to 50°C, 5 to 100% R.H. (non-condensing)				

Hardware

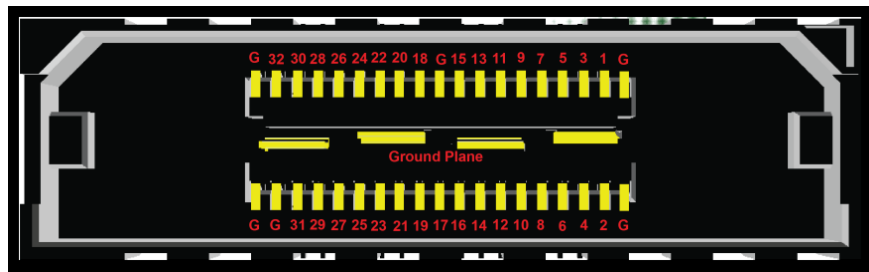
PN-9533 (12ft cable), PN-9534 (6ft cable), PN-10050 (3ft cable)



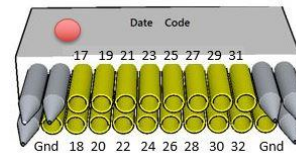
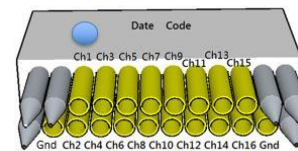
MIS Connector Pinout



PN-10081 (6ft cable), PN-10057 (3ft cable)



MIS Connector Pinout



18pins Female Omnetics Connector

Cleaning and Maintenance

The MIT to Omnetics cables should be kept dry and free of debris. A gentle cleaning with small amounts of distilled water or isopropyl alcohol can be used to clean the outside of the cables if necessary.

The Omnetics connectors on the cables can be fragile. Connect and disconnect with care to prevent bending and breaking the pins.

The cables can be reused as needed. Follow WEEE standards for disposal of the device.

Magnetic Resonance

The MIT to Omnetics cables have not been evaluated for safety and compatibility in the MR environment. The cables have not been tested for heating, migration, or image artifact in the MR environment.

Troubleshooting

If problems arise after connecting the cable, verify that the cable is not pinched or damaged. Ensure that the cable is not plugged in backwards, refer to the hardware section on page 5 for guidance. If problems continue consult Blackrock's CereStim IFU and applicable array IFU.

Warranty

Blackrock Microsystems, LLC ("Blackrock") warrants that its products are free from defects in materials and manufacturing for a period of one year from the date of shipment. At its option, Blackrock will repair or replace any product that does not comply with this warranty. This warranty is voided by: (1) any modification or attempted modification to the product done by anyone other than an authorized Blackrock employee; (2) any abuse, negligent handling or misapplication of the product; or (3) any sale or other transfer of the product by the original purchaser.

Except for the warranty set forth in the preceding paragraph, Blackrock provides no warranties of any kind, either express or implied, by fact or law, and hereby disclaims all other warranties, including without limitation the implied warranties of merchantability, fitness for a particular purpose, and non-infringement of third-party patent or other intellectual property rights.

Blackrock shall not be liable for special, indirect, incidental, punitive, exemplary or consequential damages (including without limitation, damages resulting from loss of use, loss of profits, interruption or loss of business or other economic loss) arising out of non-compliance with any warranty. Blackrock's entire liability shall be limited to providing the remedy set forth in the previous paragraph.

Return Merchandise Authorization (RMA)

In the unlikely event that your device needs to be returned to Blackrock for repair or maintenance, do not send any equipment back without a Return Merchandise Authorization Number. An RMA number will be issued to you by a Blackrock representative. If you need to obtain an RMA number, you may contact a product support representative at +1 (801) 582 5533 or by emailing support@blackrockmicro.com.

Once an RMA number has been issued, it is important to safely pack the returned item for shipping back to Blackrock. It is preferred that you save the original boxes and packing materials that your system arrived in for return shipment. Please address the package as follows:

Blackrock Microsystems, LLC

ATTN: RMA#

630 S. Komas Dr., Suite 200

Salt Lake City, UT 84108 USA

Tel: +1 (801) 582 5533

Support

Blackrock prides itself in its customer support. For additional information on this product or any of our products, you can contact our Support team through the contact information below:

Manuals, Software Downloads, and Application Notes

www.blackrockmicro.com/technical-support

Issues or Questions

www.blackrockmicro.com/technical-support

support@blackrockmicro.com

U.S.: +1 (801) 582-5533

Complaints

When filing a complaint, please provide the product description, product number, software version (if applicable), lot number, complainant's name and address, and the nature of the complaint.