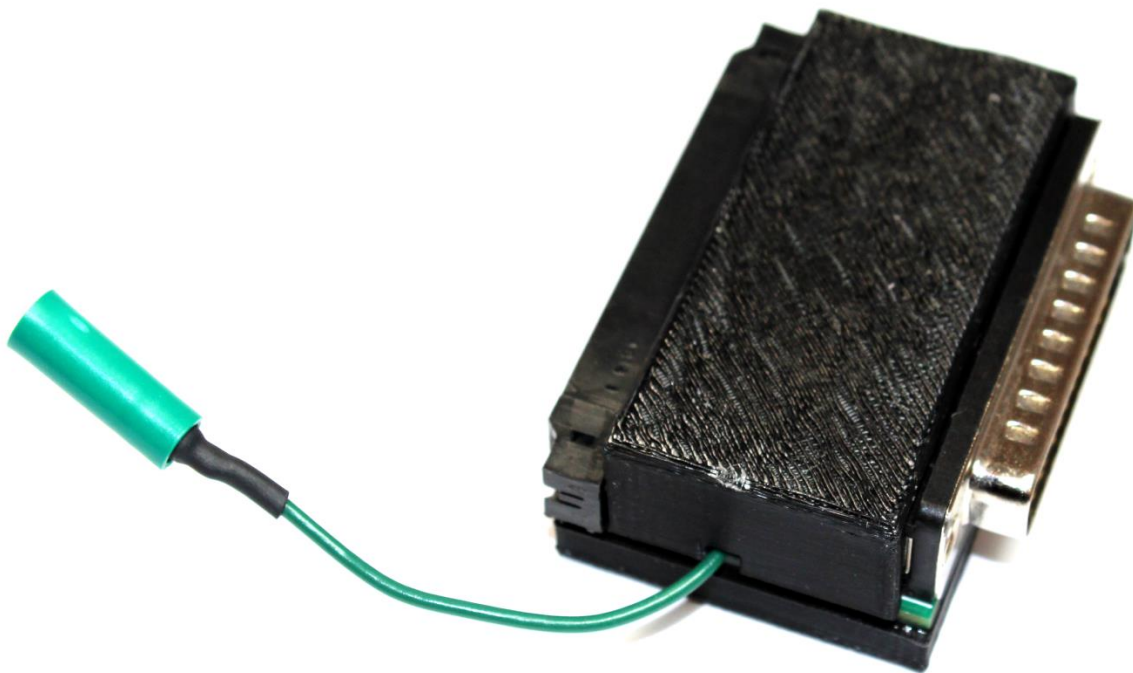


Blackrock Hirose to DB44 Adapter

PN-9179



Blackrock Microsystems, LLC

630 Komas Drive • Suite 200
Salt Lake City • UT 84108

T: +1 (801) 582-5533


www.blackrockmicro.com

support@blackrockmicro.com

1 Introduction

Hirose to DB44 adapter provides an interface between a Splitter Box Dsub-44 connector and a Hirose Dsub-68 connector.

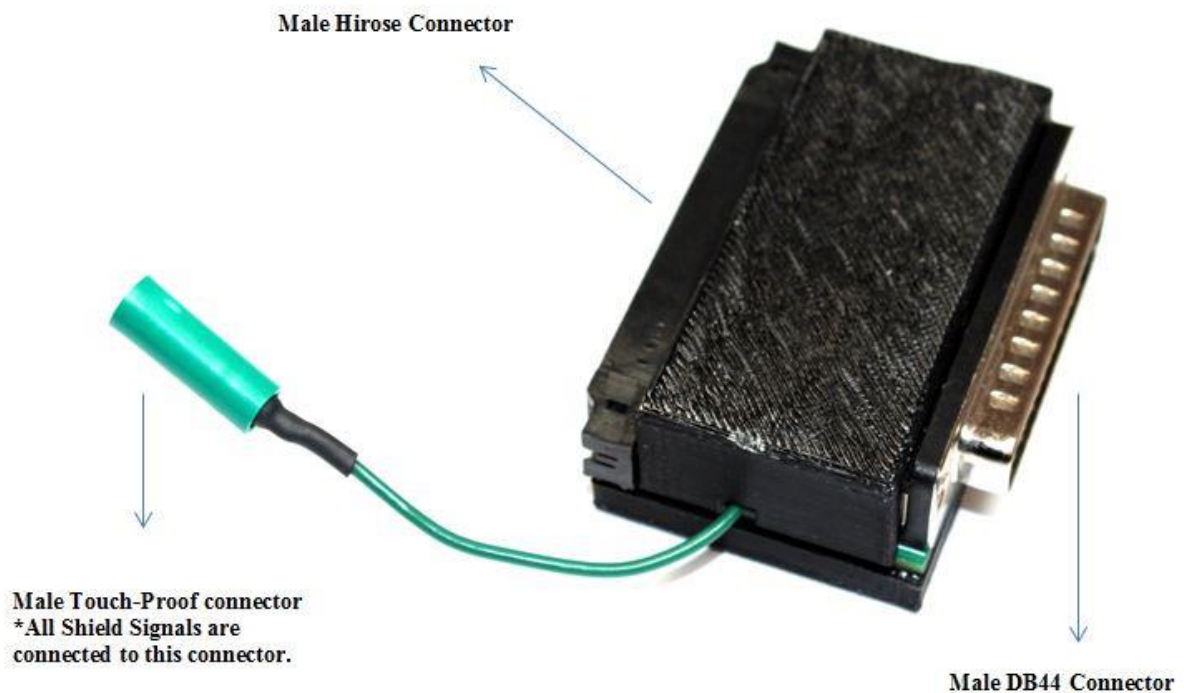
2 Caution

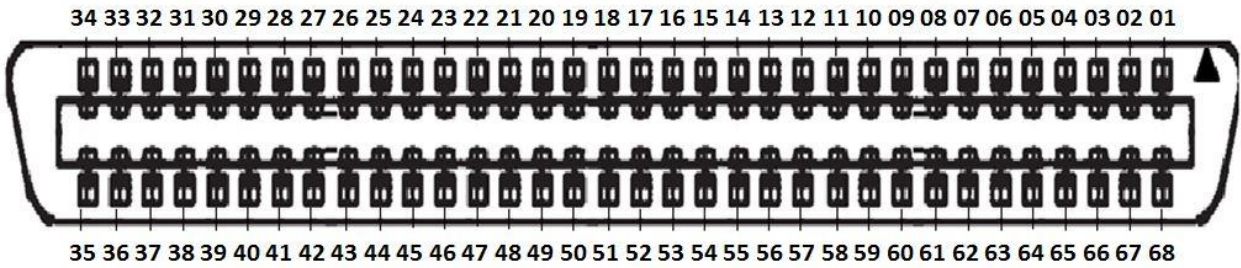
	IEC60101-0102	Danger of Electrostatic Discharge (ESD)
---	---------------	---

- In order to reduce the likelihood of ESD, use antistatic or electrostatic discharge (ESD) safe gloves when connecting the Adapter.
- 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.
- **Federal (U.S.A.) law restricts this device to sale by or on the order of a physician.**

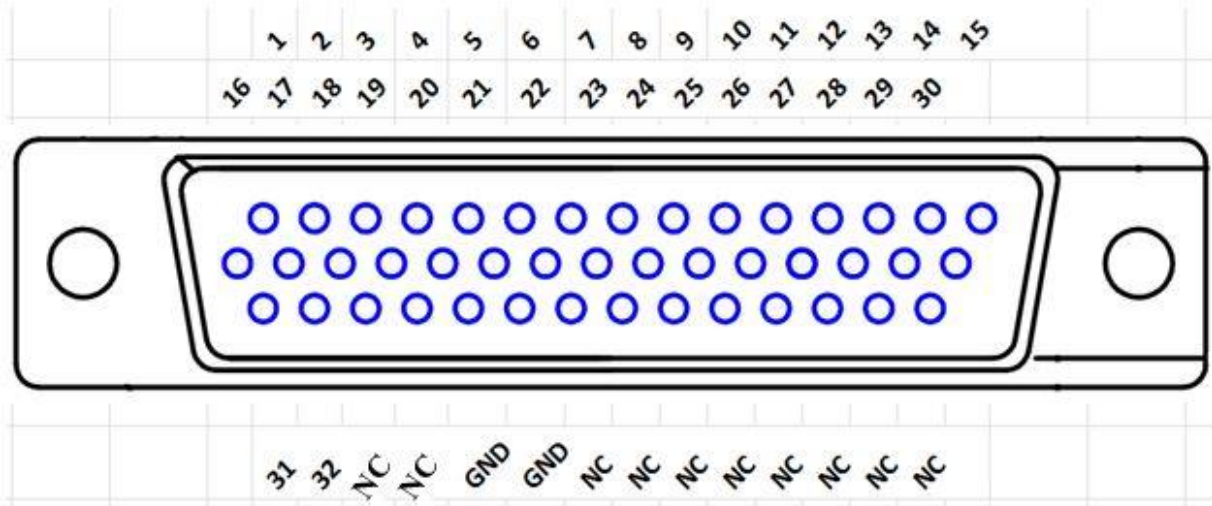
3 Hardware

3.1 Hirose to DB44 Adapter Pin-Out





Male Hirose connector (Front View)



Male DB44 Connector (Front View)

NC = Not Connected
GND = Ground

Hirose Connector Pin# (Signal)	Male DB44 Connector	Splitter Box Signal
Pin# 01 (CH-01)	Pin# 01	CH-01
Pin# 02 (Shield)	NC	NC
Pin# 03 (CH-02)	Pin# 02	CH-02
Pin# 04 (Shield)	NC	NC
Pin# 05 (CH-03)	Pin# 03	CH-03
Pin# 06 (Shield)	NC	NC
Pin# 07 (CH-04)	Pin# 04	CH-04
Pin# 08 (Shield)	NC	NC
Pin# 09 (CH-05)	Pin# 05	CH-05
Pin# 10 (Shield)	NC	NC
Pin# 11 (CH-06)	Pin# 06	CH-06
Pin# 12 (Shield)	NC	NC
Pin# 13 (CH-07)	Pin# 07	CH-07
Pin# 14 (Shield)	NC	NC
Pin# 15 (CH-08)	Pin# 08	CH-08
Pin# 16 (Shield)	NC	NC
Pin# 17 (CH-09)	Pin# 09	CH-09
Pin# 18 (Shield)	NC	NC
Pin# 19 (CH-10)	Pin# 010	CH-10
Pin# 20 (Shield)	NC	NC
Pin# 21 (CH-11)	Pin# 11	CH-11
Pin# 22 (Shield)	NC	NC
Pin# 23 (CH-12)	Pin# 12	CH-12
Pin# 24 (Shield)	NC	NC
Pin# 25 (CH-13)	Pin# 13	CH-13
Pin# 26 (Shield)	NC	NC
Pin# 27 (CH-14)	Pin# 14	CH-14
Pin# 28 (Shield)	NC	NC
Pin# 29 (CH-15)	Pin# 15	CH-15
Pin# 30 (Shield)	NC	NC
Pin# 31 (CH-16)	Pin# 16	CH-16
Pin# 32 (Shield)	NC	NC
Pin# 33 (CH-17)	Pin# 17	CH-17
Pin# 34 (Shield)	NC	NC

Hirose Connector Pin# (Signal)	Male DB44 Connector	Splitter Box Signal
Pin# 35 (CH-18)	Pin# 18	CH-18
Pin# 36 (Shield)	NC	NC
Pin# 37 (CH-19)	Pin# 19	CH-19
Pin# 38 (Shield)	NC	NC
Pin# 39 (CH-20)	Pin# 20	CH-20
Pin# 40 (Shield)	NC	NC
Pin# 41 (CH-21)	Pin# 21	CH-21
Pin# 42 (Shield)	NC	NC
Pin# 43 (CH-22)	Pin# 22	CH-22
Pin# 44 (Shield)	NC	NC
Pin# 45 (CH-23)	Pin# 23	CH-23
Pin# 46 (Shield)	NC	NC
Pin# 47 (CH-24)	Pin# 24	CH-24
Pin# 48 (Shield)	NC	NC
Pin# 49 (CH-25)	Pin# 25	CH-25
Pin# 50 (Shield)	NC	NC
Pin# 51 (CH-26)	Pin# 26	CH-26
Pin# 52 (Shield)	NC	NC
Pin# 53 (CH-27)	Pin# 27	CH-27
Pin# 54 (Shield)	NC	NC
Pin# 55 (CH-28)	Pin# 28	CH-28
Pin# 56 (Shield)	NC	NC
Pin# 57 (CH-29)	Pin# 29	CH-29
Pin# 58 (Shield)	NC	NC
Pin# 59 (CH-30)	Pin# 30	CH-30
Pin# 60 (Shield)	NC	NC
Pin# 61 (CH-31)	Pin# 31	CH-31
Pin# 62 (Shield)	NC	NC
Pin# 63 (CH-32)	Pin# 32	CH-32
Pin# 64 (Shield)	NC	NC
Pin# 65 (GND)	Pin# 35,36	GND
Pin# 66 (Shield)	NC	NC
Pin# 67	NC	NC
Pin# 68 (Shield)	NC	NC

Hirose to DB44 Adapter Pinout

 NC = Not Connected
 GND = Ground

*All Shield Signals are connected to Touch-Proof connector

4 Warranty

Blackrock Microsystems, LLC warrants that its products are free from defects in materials and manufacturing for a period of one year from the date of shipment. Blackrock will, at its option, 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.

This constitutes the sole warranty made by Blackrock, There are no other warranties, expressed or implied, which extend beyond those described herein or to anyone other than the original purchaser, including the implied warranties of merchantability and fitness for a particular purpose. In no event shall Blackrock Microsystems, be liable for any incidental or consequential damages, or for the infringement of any patent rights or third party rights due to the use of its products.

4.1 Return Merchandise Authorization (RMA)

In the unlikely event that your adapter 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 (801) 582-5533 or toll free at (866) 806-3692.

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 Komas Drive, Suite 200
Salt Lake City, UT 84108 USA
Tel: +1 (801) 582-5533