

TABLE SUBSECTION HARNESES

PART NUM	TITLE	QTY IN DSN	STATUS	PAGE #
BA000	Split Beam Transducer Bulkhead to MiniWBT	2	Final	12
BA001	Single Beam Transducer Bulkhead to MiniWBT	2	Final	13
BA002	Download and Charge Bulkhead to Interface & Network	1	Final	14
BA003	AUV Main Bus Bulkhead	1	Final	15
BA004	Interface USB to SBC	1	Final	16
BA005	Interface Trigger to SBC	1	Final	17
BA006	Interface to Tranceiver Power	2	Final	18
BA007	Interface to SBC Power	1	Final	19
BA008	Interface to 8-cell Battery	1	Final	20
BA009	Interface to Magnetic Reed Switch	1	Final	21



Monterey Bay Aquarium Research Institute
7700 Sandholdt Road, Moss Landing, CA 95039

Title HARNESSES: TITLE		Project 901807
Part Number N/A	Project File X:\S01807\... \Data\mbi\ba\ba000.dsn	Rev 1
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Engineer ETM	Size A	Document Number 100221222
Designer <Designer>	Date:	Tuesday, October 16, 2018

TCVR-A/B
Simrad ES200-7CDK Split
185-255kHz Transducer



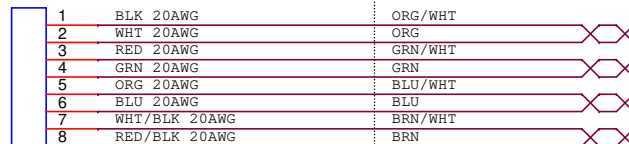
MALE FACE VIEW

MCBH8F
SUBCONN

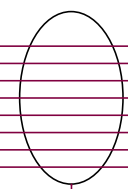
3" TO BULKHEAD

SPLICE

PROCAT5E
 EC-PC5-TSTP-4PR-ELITE



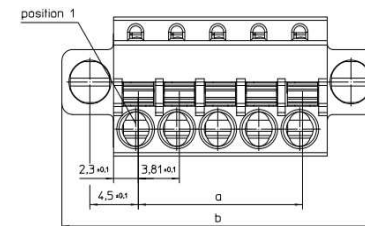
LENGTH TBD MAX 3FT



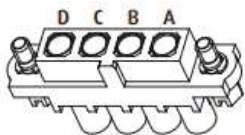
TERMINATE WIRES
 W/ FERRULES

CONNECTION TO
MINI WBT TRANSCEIVER
IN METAL ENCLOSURE

1851313
 PHEONIX SPRING CLAMP



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		Title Harness: Split Beam Transducer		Project 901807
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Designer	Date Tuesday, October 16, 2018	Sheet 12	of 25	



M80-5000000M2-06-331-00-000

INTERFACE BOARD J1

CHARGE+
SENSE+
CHARGE-
SENSE-
SHIELD

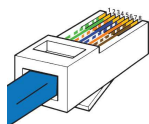
6
5
4
3
2
1

RJ45 TO SBC EIA567A

RJ45

8 BRN
7 BRN/WHT
6 ORG
5 BLU/WHT
4 BLU
3 ORG/WHT
2 GRN
1 GRN/WHT

RJ45 Pinout T-568A



1. White Green 5. White Blue
2. Green 6. Orange
3. White Orange 7. White Brown
4. Blue 8. Brown

SPHERE BULKHEAD

BLK 18AWG 1
ORG/SHLD 2
WHT 18AWG 3
BRN 4
BRN/WHT 5
BLU 6
BLU/WHT 7
ORG 8
ORG/WHT 9
GRN 10
GRN/WHT 11
RED 18AWG 12
GRN 18AWG 13

SENSE-
SHIELD
SENSE+
1GBE_BI-_D4
1GBE_BI+_D4
1GBE_BI-_D3
1GBE_BI+_D3
1GBE_RX-_D2
1GBE_RX+_D2
1GBE_TX-_D1
1GBE_TX+_D1
CHARGE+
CHARGE-

DLPBH13M



MALE FACE VIEW



Monterey Bay Aquarium Research Institute
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Title
Harness: Download & Charge Bulkhead

Project
901807

Engineer **EJM**

Size Document Number

Part Number

Project File

Rev

Designer

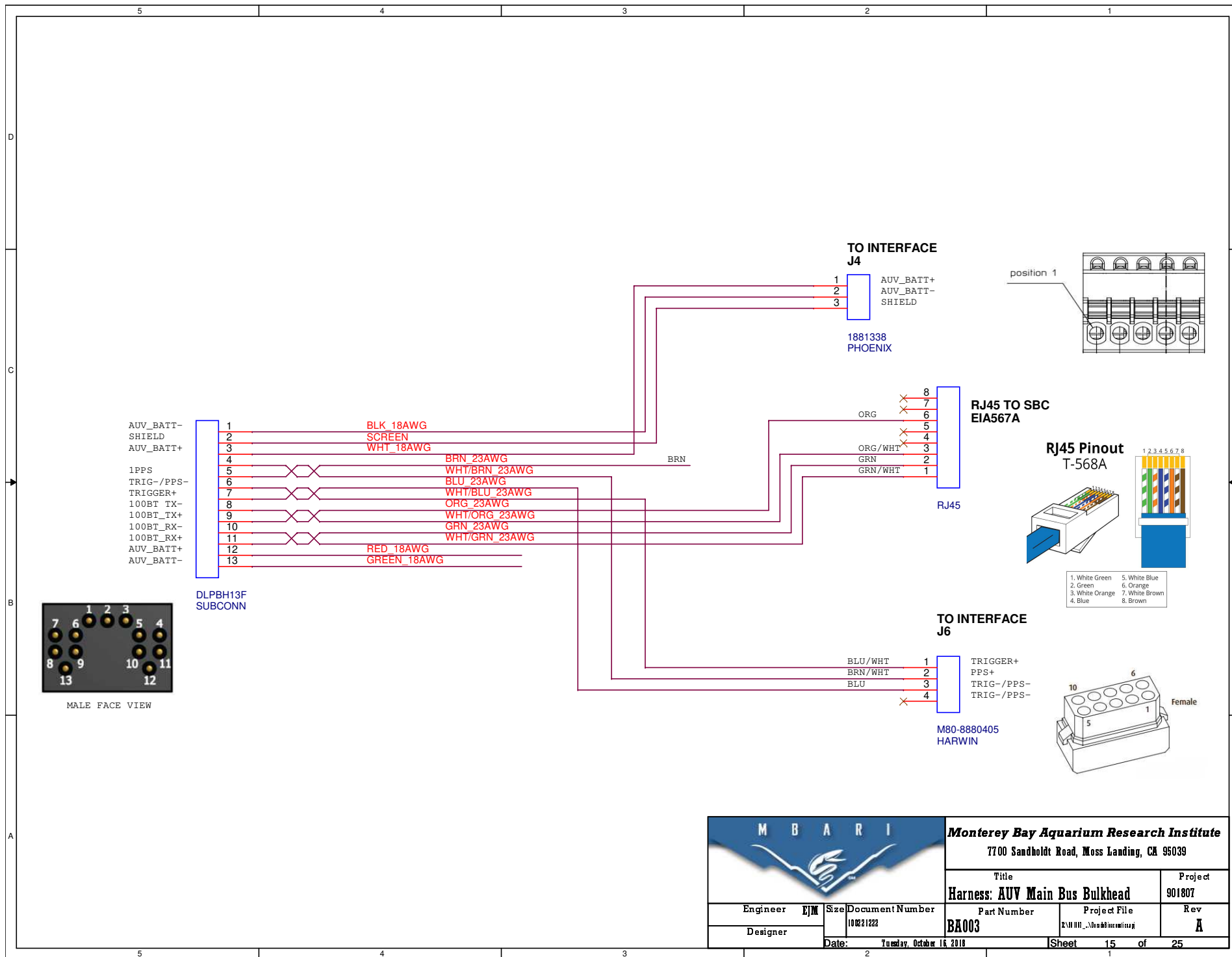
Date: Tuesday, October 16, 2018

BA002

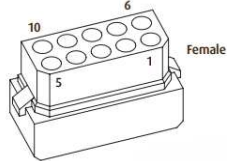
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A

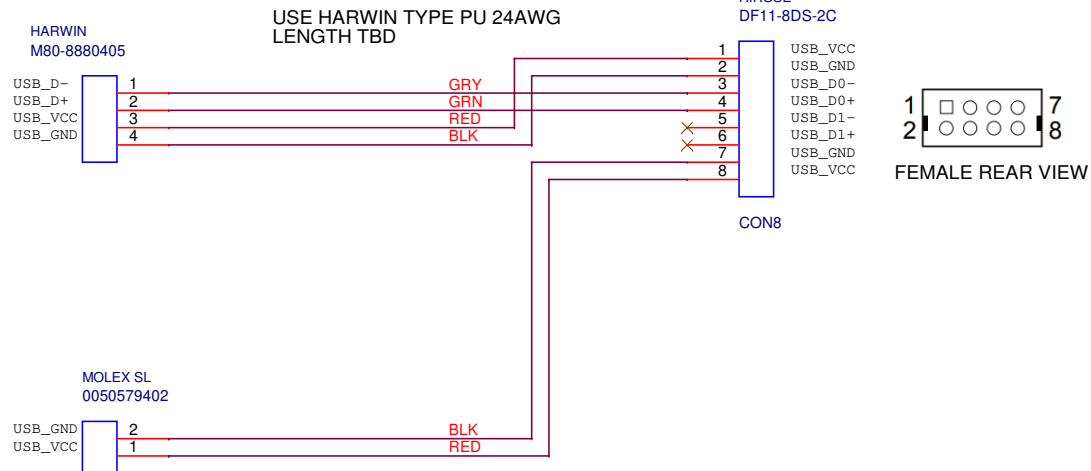
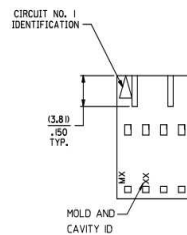
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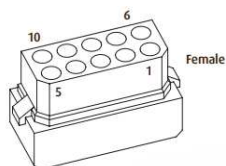
INTERFACE BOARD VCC & COMMUNICATION



CYBERDATA 3-PORT ETHERNET SWITCH POWER



		Monterey Bay Aquarium Research Institute 7700 Sandholdt Road, Moss Landing, CA 95039		
		Title Harness: Interface Board USB		Project 901807
Engineer EJM	Size 100221222	Document Number BA004	Part Number X11111_1111111111111111	Rev A
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ISO_TRIGGER+
ISO_PPS+
ISO_PPS-
ISO_TRIGGER-
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M80-8880405
HARWIN

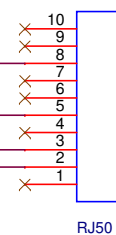
ORG

YEL

BLK

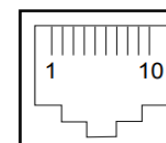
BLK

LENGTH TBD
USE HARWIN TYPE PU
24AWG



RI
RTS
CTS
DTR
DCD
RXD
TXD
GND
GND
DSR

IBASE811F
RJ50 RS232 PORT



SOCKET FACE VIEW



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Title
Harness: Interface RS232 Trigger

Project	901807
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Engineer **EJM**

Size	Document Number
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100221222

Part Number

Project File

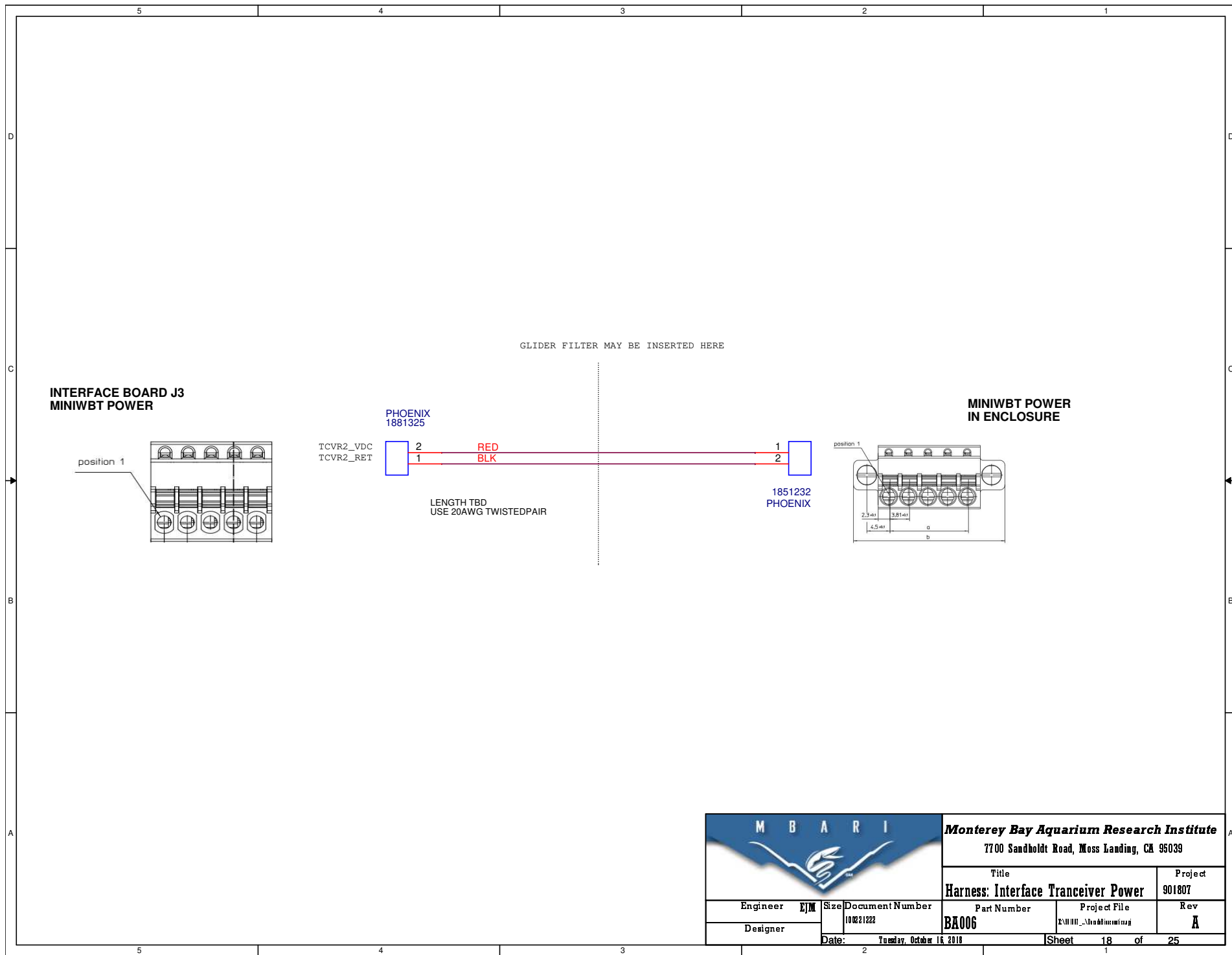
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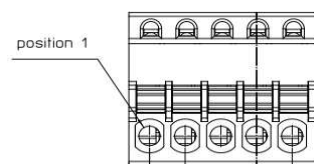
Designer

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A





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TCVR2_VDC
TCVR2_RET
```

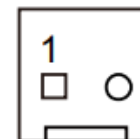
7

RED
BLK

LENGTH TBD
USE 20AWG TWISTEDPAIR

1
2

VHR-2N
.JST



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Title	Harness: Interface SBC Power
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Project
901807

Engineer EJM

Size	Document Number
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	Part Number
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Project File

Rev

Designer

	100221222	BAC
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BA007

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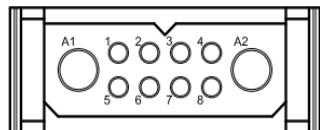
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**POSITRONIC
MIXED DENSITY
PLB10W2M0000**

BATT_CHARGE+
BATT_DISCHARGE+
BATT_DISCHARGE+
SCL
VCC
BATT_DISCHARGE+
BATT_DISABLE
SDA
BATT_RET
BATT_RET

POSITRONIC_PLB10W2



J75

A1
1
2
3
4
5
6
7
8
A2

A1 RED 14 AWG STRANDED
1 BRN 20 AWG STRANDED
2 RED 20 AWG STRANDED
3 ORG 24 AWG STRANDED
4 YEL 24 AWG STRANDED
5 GRN 20 AWG STRANDED
6 BLU 24 AWG STRANDED
7 VIO 24 AWG STRANDED
8 GREY 20 AWG STRANDED
A2 BLACK 14 AWG STRANDED

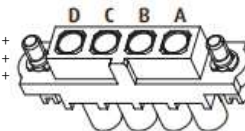
LENGTH TBD

INTERFACE BOARD

J9

1 BATT_CHARGE+
2 BATT_DISCHARGE+
3 BATT_DISCHARGE+
4 BATT_DISCHARGE+
5 BATT_RET
6 BATT_RET

M80-400000F1-06-325-00-000
HARWIN

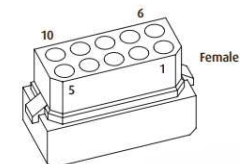


INTERFACE BOARD

J11

1 RESET
2 SCL
3 SDA
4 VCC
5 BATT_DISABLE
6 GND

M80-8890605
HARWIN



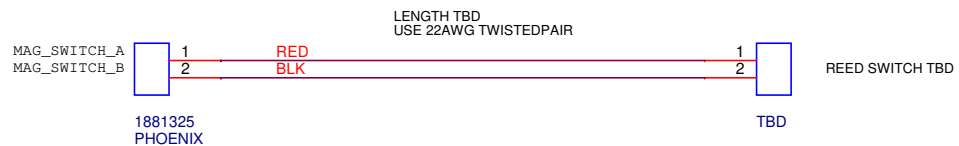
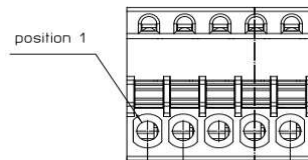
Monterey Bay Aquarium Research Institute

7700 Sandholdt Road, Moss Landing, CA 95039

Title Project
Harness: Interface Board to Battery Pack R01807

Engineer EYM	Size A	Document Number 100221222	Part Number BA008	Project File X:\S01807_... \Doradobioscounters...	Rev 1
Designer <Designer>	Date: Tuesday, October 16, 2018	Sheet 20 of 25			

**INTERFACE BOARD J7
MAG_SW**



		Monterey Bay Aquarium Research Institute 7700 Sandholdt Road, Moss Landing, CA 95039	
		Title Harness: Interface Board to Reed Switch	Project 001807
Engineer EJM	Size A	Document Number 100221222	Part Number BA009
Designer <Designer>	Date Tuesday, October 16, 2018	Project File X:\S01807_...\.Dorad\ba009\cs...	Rev 1
		Sheet 21 of 25	