POSITRONIC Single Density
Right Angle Female
Pins 1-6 on top

J5

BATT- 1
2
3
4
5
6
DISCHG_FUSED 7
8
9
10
AUX2_+ 11
AUX_+ 12

1 black
2 green
3 black
4 green
5
6 black
7 white
8 red
9 white
10 red
11
12 red

black
green
white
red

CONN RECT 12POSITRONIC PLB12F

Wire bundle coming up on port/fwd side of battery

J4

BATT- 1
2
3
4
5
6
CHG_IN 7
8
9
10
11
12

1
2
3
4
5
6
7
8
9
10
11
12

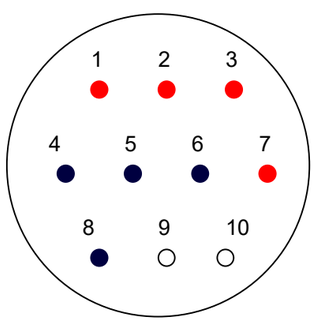
POSITRONIC PLB12M4B0A1 POSITRONIC PLB12F

POSITRONIC Single Density
Right Angle Male
Pins 1-6 on top

SEACON Penetrator Aft

1 Charge+
2 Charge+
3 Charge+
4 Charge-
5 Charge-
6 Charge-
7 Charge+
8 Charge-
9 Sense+
10 Sense-

SEACON MINM-10 CCR



SEACONN-MINM-CCR
MALE FACE VIEW

BUS AFT
Starboard
DLPBH13F

1 black BUS-
2 orange
3 white BUS+
4 brown
5 brown/white 1PPS
6 blue P/T GND
7 blue/white TRIG
8 orange E1+
9 orange/white E1-
10 green E2+
11 green/white E2-
12 red BUS+
13 green BUS-

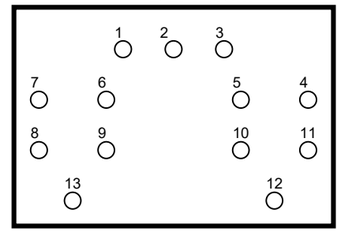
BUS FWD
Port
DLPBH13F

1 black BUS-
2 orange
3 white BUS+
4 brown
5 brown/white 1PPS
6 blue P/T GND
7 blue/white TRIG
8 orange E1+
9 orange/white E1-
10 green E2+
11 green/white E2-
12 red BUS+
13 green BUS-

BUS AUX
Fwd
DLPBH13F

1 black BUS-
2 orange
3 white BUS+
4 brown
5 brown/white 1PPS
6 blue P/T GND
7 blue/white TRIG
8 orange E1+
9 orange/white E1-
10 green E2+
11 green/white E2-
12 red BUS+
13 green BUS-

SUBCON
DLPIL13M



MALE
FACE VIEW

100MBit Ethernet

RJ45
orange/white 1
orange 2
green/white 3
4
5
green 6
7
8

100MBit Ethernet

RJ45
orange/white 1
orange 2
green/white 3
4
5
green 6
7
8

100MBit Ethernet

RJ45
orange/white 1
orange 2
green/white 3
4
5
green 6
7
8

4 br
3 1PPS br/wt
2 GND bl
1 TRIG bl/wt

CGrid SL Female

4 br
3 1PPS br/wt
2 GND bl
1 TRIG bl/wt

CGrid SL Female

4 br
3 1PPS br/wt
2 GND bl
1 TRIG bl/wt

CGrid SL Female

foward/starboard side
MultiUse penetrator

6 blue 6
5 orange 5
4 green 4
3 red 3
2 white 2
1 black 1

CGrid SL Male — SubConn MCBHRA6F

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

Schematic Name: BatteryWiring		
Page Title: 1 Penetrator wiring		Engineer: <Engineer>
Project Name: DMO_AUV	Group Name: <Group>	Designer: Erik Trauschke
System: <System>	Subsystem: <Subsystem>	Last Updated By: <Updated By>
Drawing Number: 100221645	Release: <RevVersion: <Version	Status: <Status> / Size: B
Page Modify Date: Monday, March 28, 2022	Check In Date: <LCID>	Sheet <Page Number>Page Count>

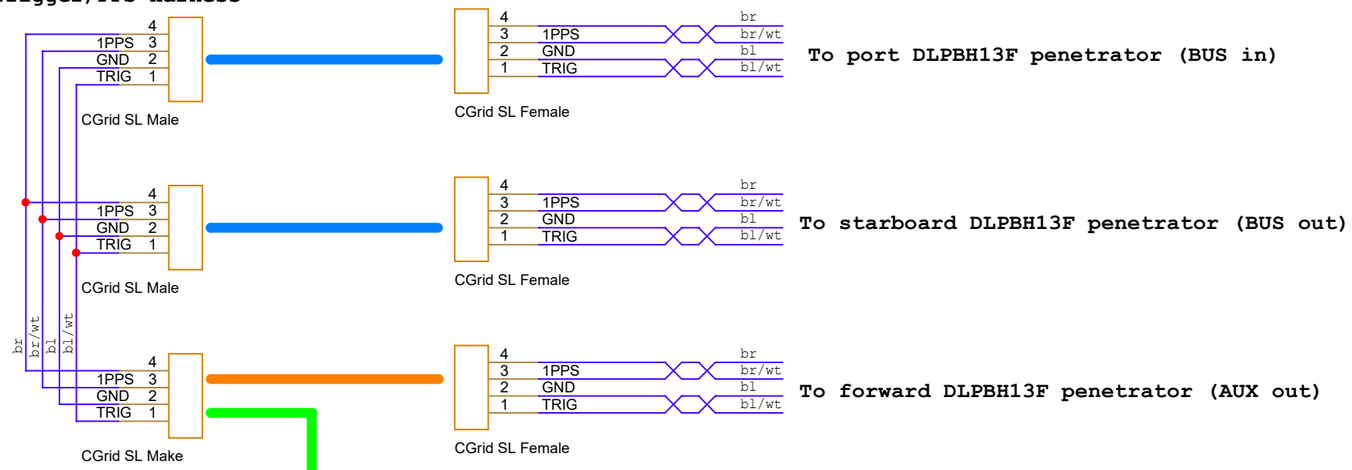
Always connected

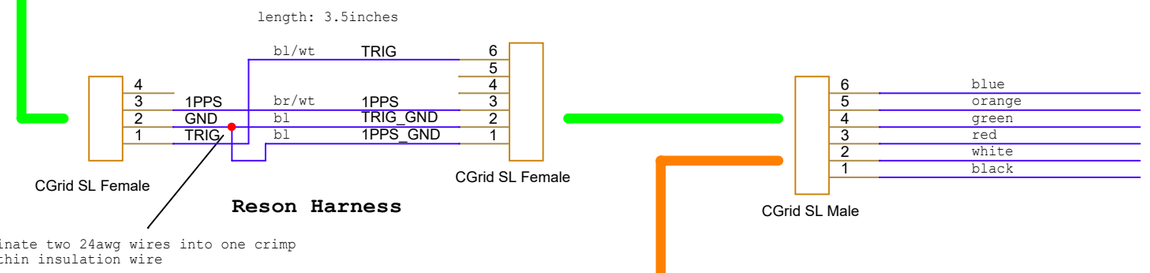
Connected in FWD battery
(Edgetech on AUX port, SVP on MultiUse port)

Connected in AFT battery
(Reson T-50 host on AUX port,
T-50 Aux on MultiUse port)

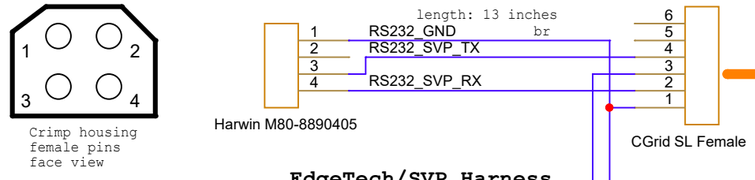
Choose either configuration,
(green or orange), not both

Trigger/PPS Harness



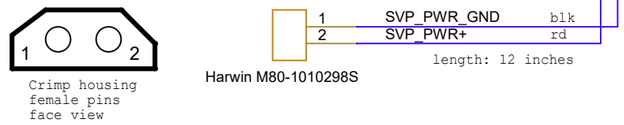


To 41cell board J32



EdgeTech/SVP Harness

To EOM104 Daughter Card J4



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Research Institute
7700 Sandholdt Road, Moss Landing, CA 95039

Schematic Name: BatteryWiring		
Page Title: 2 harness config		Engineer: <Engineer>
Project Name: DMO_AUV	Group Name: <Group>	Designer: Erik Trauschke
System: <System>	Subsystem: <Subsystem>	Last Updated By: <Updated By>
Drawing Number: 100221645	Release: <RevVersion: <Version>	Status: <Status> / Size: B
Page Modify Date: Monday, March 28, 2022	Check In Date: <LCID>	Sheet <Page Number> of <Page Count>

Battery 41cell board
Dwg 10021176

HARWIN_M80_7530445
VERT SMT
FACE VIEW, MALE PINS
MT4 MT3 MT2 MT1

J31
GND
RX
TX
COM0

J32
GND
RX
TX
COM3 SVP

J30
ENET_TX+
ENET_TX-
ENET_RX+
ENET_RX-
Ethernet Ethernet

to EdgeTech/SVP Harness
(see Page 2)

To forward
penetrator

RJ45 ETH1
RJ45 ETH2

EOM104 Switch daughter card
Dwg 10020932_E1

ETH4 RJ45
To port
penetrator

ETH3 RJ45
To starboard
penetrator

HARWIN_M80_8420242
mt2 mt1 mt3 mt4

J20
wire loop
to enable

HARWIN_M80_8510642
R/A TH
FACE VIEW, MALE PINS

J21
GND
DSCHG+
12V_OFF_N
GND
DSCHG+
EOM_SPARE
EOM104 HARWIN M80-8890605

J22
HARWIN_M80_8510442

12V
J4
J8
J9
to EdgeTech/SVP Harness
(see Page 2)

HARWIN_M80_8510642
VERT SMT
FACE VIEW, MALE PINS

J26
D_3V3
RED_LED_C
BLU_LED_C
GRN_LED_C
LED HARWIN M80-8890605
RED
BLUE
GRN
A
D1

HARWIN_M80_8420242
R/A TH
mt2 mt1 mt3 mt4

J19
REED1
REED2
Magnet

MAGNET OUT ENABLES
Reed Switch
CGrid SL CGrid SL

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Research Institute
7700 Sandholdt Road, Moss Landing, CA 95039

Schematic Name: BatteryWiring			
Page Title: 3 Board connections			Engineer: Erik Trauschke
Project Name: DMO_AUV	Group Name: <Group>		Designer: Erik Trauschke
System: Dorado 55pack battery	Subsystem: <Subsystem>		Last Updated By: <Updated By>
Drawing Number: 100221645	Release: A	Version: 1	Status: <Status> / Size: B
Page Modify Date: Thursday, January 06, 2022	Check In Date: <LCID>		Sheet <Page Number> of <Page Count>