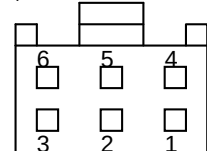
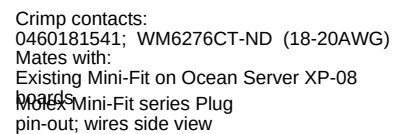
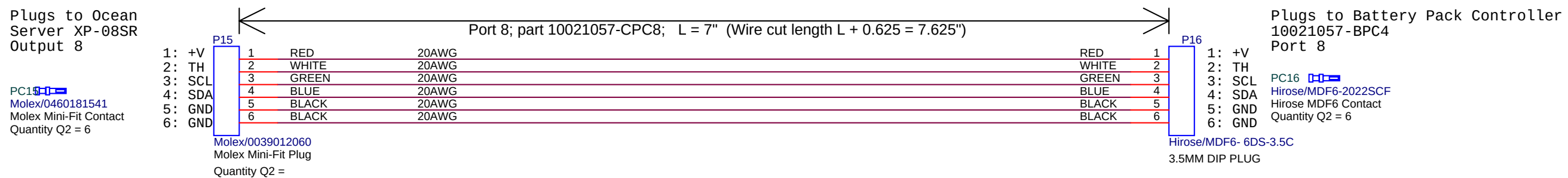
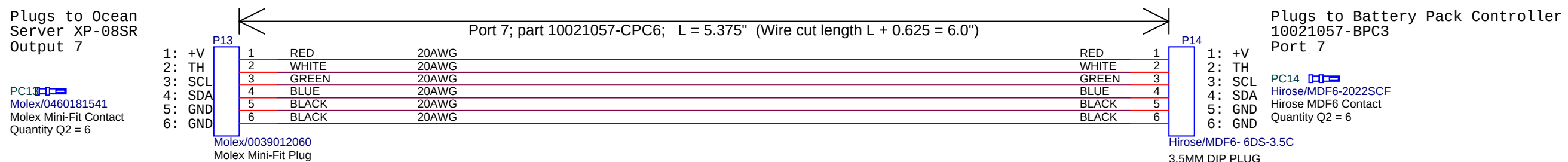
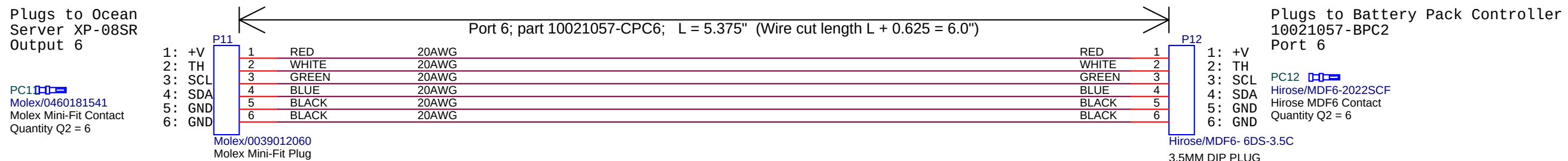
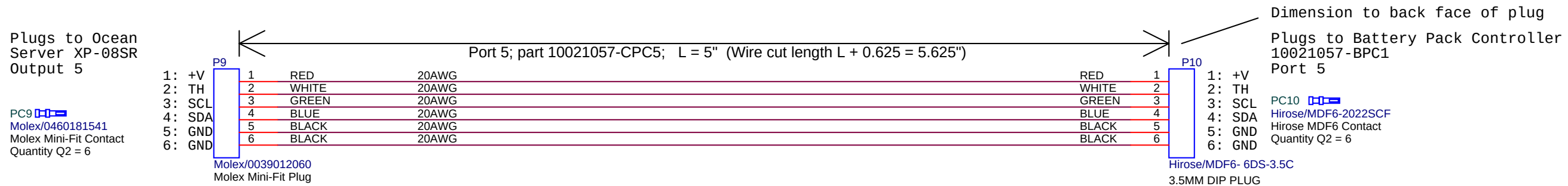
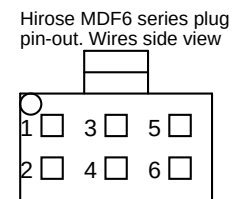
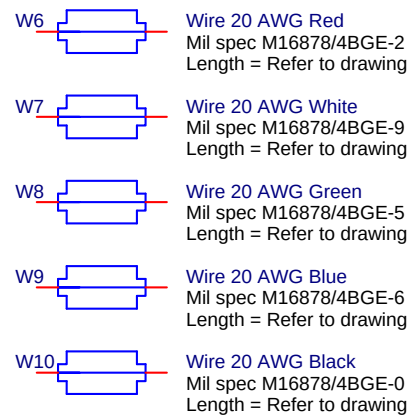




Charge Port Cable for LRAUV Battery Pack Controller; Port 5- Port 8 (page 2 of 2). Eight cables total (P1-P8) is one set for 1 half-pack (2 sets required for vehicle)



Molex Mini-Fit series  
Current Rating @  
30 Deg C max temp rise  
AWG#18 : 7.5A  
AWG#20 : 6A  
AWG#22 : 5A  
AWG#24 : 4A



Crimp contacts:  
MDF6-2022SCF, MDF6-2022SC (20-22AWG)  
MDF6-1618SCF, MDF6-1618SC (18-18AWG)

Mates with Hirose/MDF6- 6DP-3.5DSA(05)

Hirose MDF6 series Current Rating:  
AWG#16 : 7A  
AWG#18 : 6A  
AWG#20 : 5A  
AWG#22 : 4A

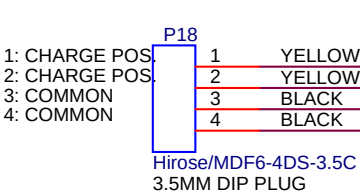
Notes:  
P: Plugs  
PC: Plug contacts

|                                                                                          |                                     |                                                                                                    |                 |
|------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------|-----------------|
|     |                                     | <b>Monterey Bay Aquarium Research Institute</b><br><b>7700 Sandholdt Rd, Moss landing CA 95076</b> |                 |
| <b>Engineer</b><br>Klimov                                                                |                                     | <b>Page Title</b><br><b>Charge Port Cable P5-P8</b>                                                |                 |
| 831-775-1914                                                                             |                                     | <b>Project:</b><br>901400                                                                          |                 |
| <b>Size</b><br>B                                                                         | <b>Doc. or Part Number</b><br><Doc> | <b>File Name (auto)</b><br>10021057-HALF-PACK-HARNESSES                                            | <b>Rev</b><br>* |
| <b>Page Modify Date (auto):</b>                                                          |                                     | Wednesday, July 01, 2015                                                                           | <b>Sheet:</b>   |
| <b>Design Modify Date (auto):</b>                                                        |                                     | Wednesday, July 01, 2015                                                                           | 2 of 3          |
| <b>Full path (auto):</b>                                                                 |                                     |                                                                                                    |                 |
| RA\WINGS\PROJECT.EE.DWGS\BATTERYPACK2013\10021057-APACK\10021057-HALF-PACK-HARNESSES.DSN |                                     |                                                                                                    |                 |

Charge Distribution Cable for LRAUV Battery Pack Controller; 2x per set

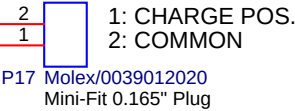
Plugs to Battery Pack Controller  
10021057-BPC1

PC18   
Hirose/MDF6-2022SCF  
Hirose MDF6 Contact  
Quantity Q2 = 4



10021057-CDC1 Length 3.5"

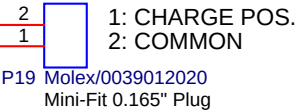
YELLOW 2  
BLACK 1



PC17   
Molex/0460181541  
Molex Mini-Fit Contact  
Quantity Q2 = 2

Plugs to Ocean  
Server XP-08SR  
charge ports left side

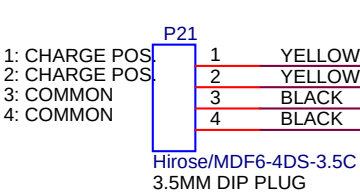
YELLOW 2  
BLACK 1



PC19   
Molex/0460181541  
Molex Mini-Fit Contact  
Quantity Q2 = 2

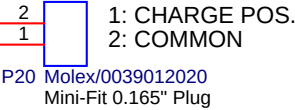
Plugs to Battery Pack Controller  
10021057-BPC2

PC21   
Hirose/MDF6-2022SCF  
Hirose MDF6 Contact  
Quantity Q2 = 4



10021057-CDC2 Length 13.0"

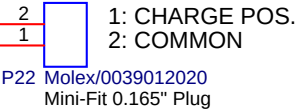
YELLOW 2  
BLACK 1



PC20   
Molex/0460181541  
Molex Mini-Fit Contact  
Quantity Q2 = 2

Plugs to Ocean  
Server XP-08SR  
charge ports right side

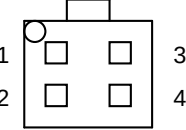
YELLOW 2  
BLACK 1



PC22   
Molex/0460181541  
Molex Mini-Fit Contact  
Quantity Q2 = 2

Crimp contacts:  
MDF6-2022SCF, MDF6-2022SC (20-22AWG)  
MDF6-1618SCF, MDF6-1618SC (18-18AWG)  
Mates with Hirose/MDF6- 4DP-3.5DSA(05)

Hirose MDF6 series plug  
pin-out. Wires side view

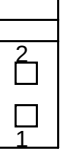


Wire 20 AWG Yellow  
Mil spec M16878/4BGE-4  
Length = Refer to drawing



Wire 20 AWG Black  
Mil spec M16878/4BGE-0  
Length = Refer to drawing

Molex Mini-Fit series Plug  
pin-out; wires side view



Crimp contacts:  
0460181541; WM6276CT-ND (18-20AWG)  
Mates with:  
Existing Mini-Fit on Ocean Server XP-08 boards

Molex Mini-Fit series Current Rating  
30 Deg C max temp rise  
AWG#18 : 7.5A  
AWG#20 : 6A  
AWG#22 : 5A  
AWG#24 : 4A



Monterey Bay Aquarium Research Institute  
7700 Sandholdt Rd, Moss landing CA 95076

Engineer  
Klimov 831-775-1914

Page Title  
**Charge Distribution Cables** Project:  
901400

Size B Doc. or Part Number  
<Doc>

File Name (auto)  
10021057-HALF-PACK-HARNESSES Rev  
\*

Page Modify Date (auto):  
Design Modify Date (auto):  
Full path (auto):

Wednesday, July 01, 2015 Sheet:  
Wednesday, July 01, 2015 3 of 3