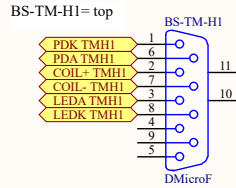


4 Feedthroughs

TM OSEMs

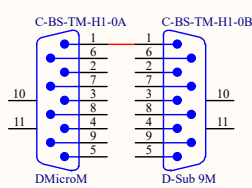
OSEM

Glenair GMR7590-9P-1BPN



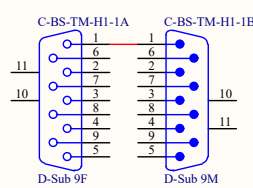
TM OSEM to BF Cable

JGW-D1503901 Sheet 01



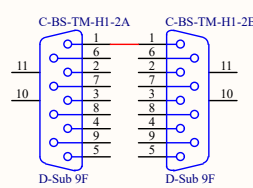
BF to PI Signal Cable

JGW-D1503901 Sheet 08

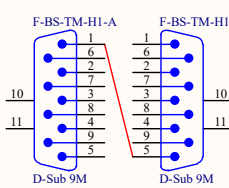


TR-Flange Signal Cable

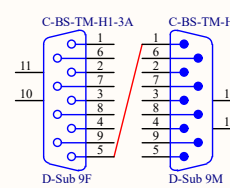
JGW_D1503901 Sheet 19



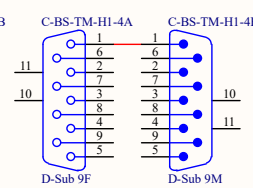
Feedthrough



Anti-Feedthrough Adapter Cable

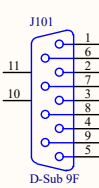


OSEM External Cable

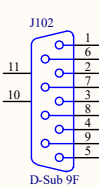
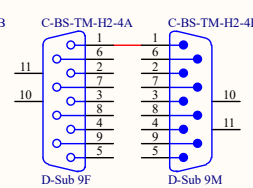
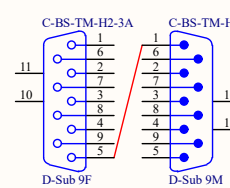
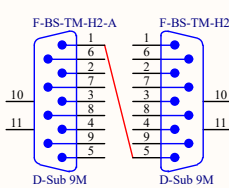
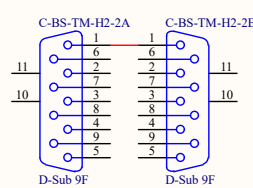
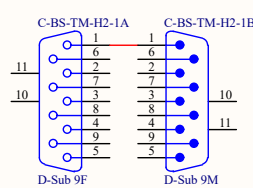
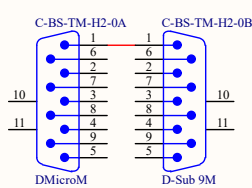
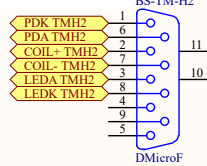


Sat Amp #1

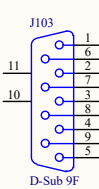
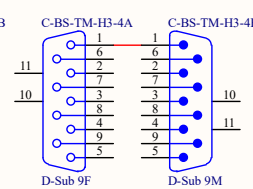
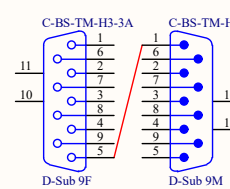
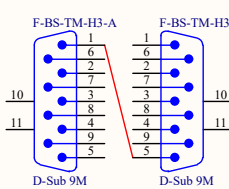
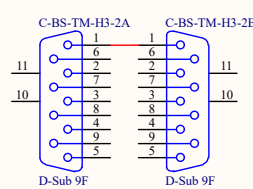
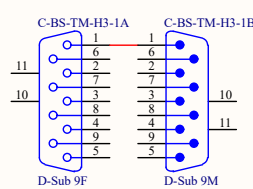
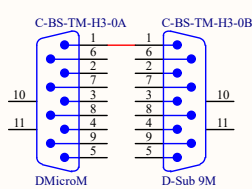
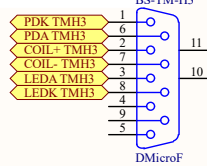
D1402809



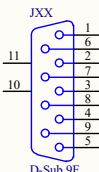
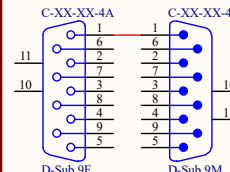
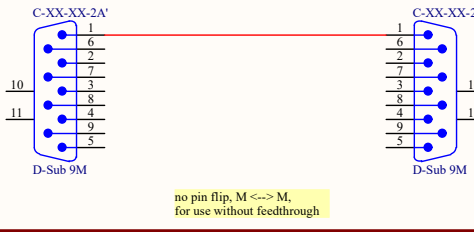
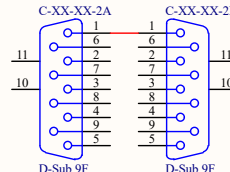
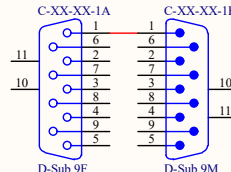
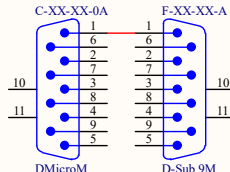
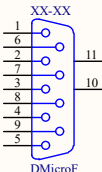
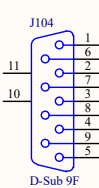
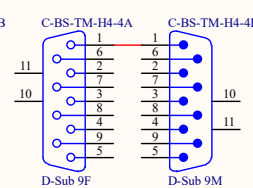
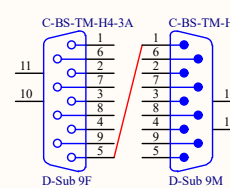
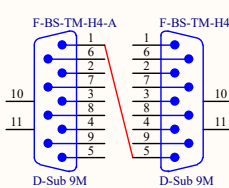
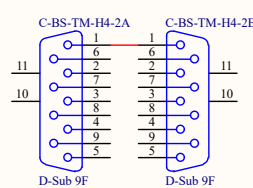
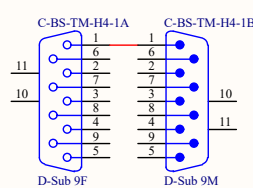
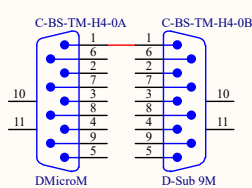
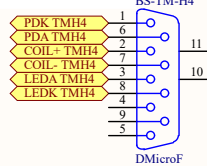
BS-TM-H2 = right



BS-TM-H3 = bottom



BS-TM-H4 = left



no pin flip, M <-> M,
for use without feedthrough

For testing the suspension outside the vacuum tank,
there should be a supply of plain M-M gender changers
to replace the combination of Feedthrough+Anti-Feedthrough adapter cable.

Title BS Suspension Cabling - Test Mass OSEMs		
Size A3	Number JGW-D1503600	Revision -v8
Date: 2016/04/12	Sheet 1 of 14	
File: _l01 TM OSEMs.SchDoc	Drawn By:	

6 Feedthroughs

IM OSEMs

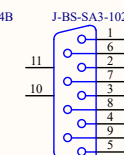
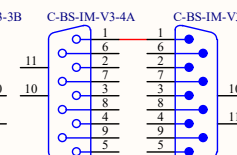
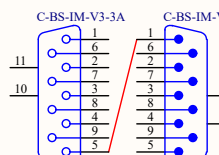
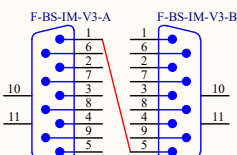
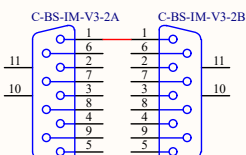
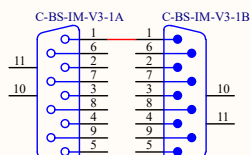
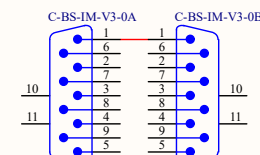
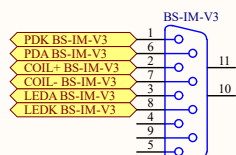
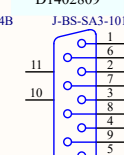
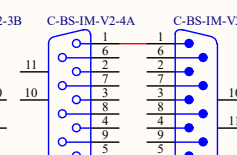
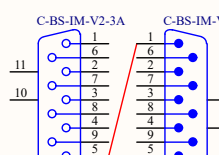
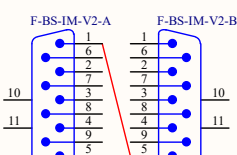
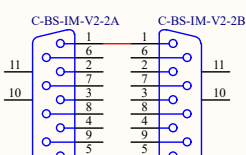
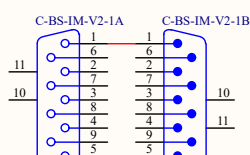
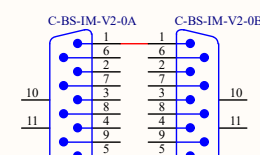
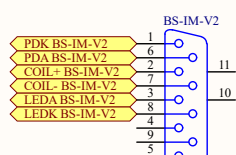
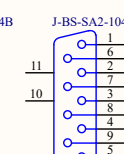
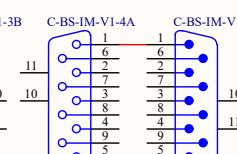
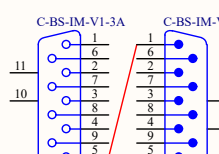
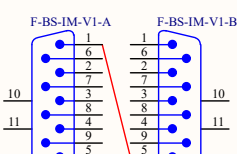
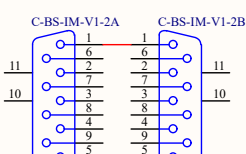
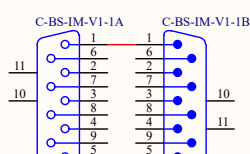
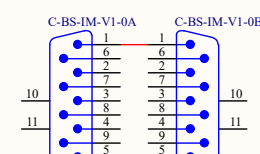
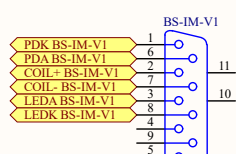
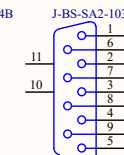
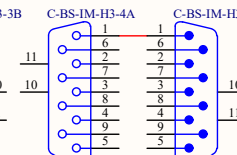
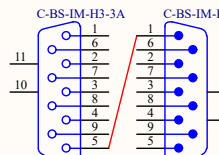
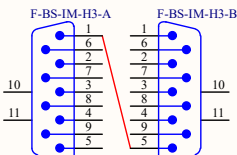
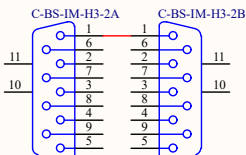
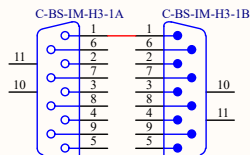
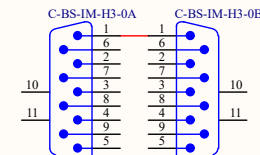
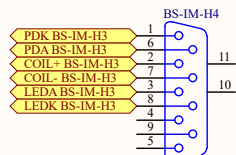
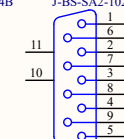
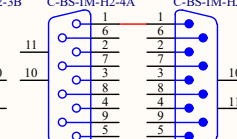
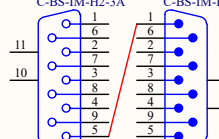
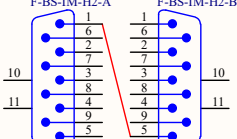
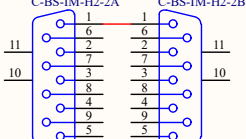
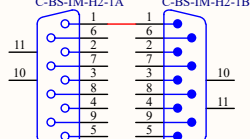
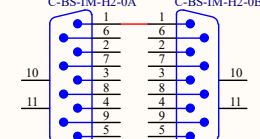
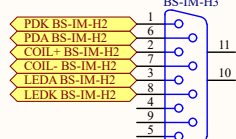
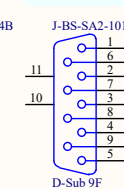
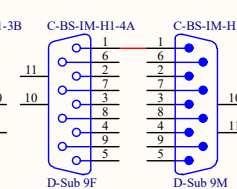
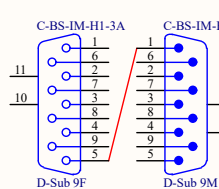
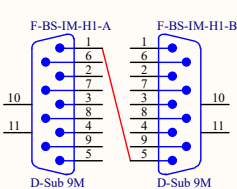
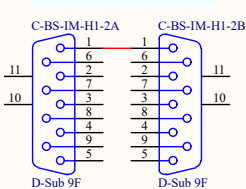
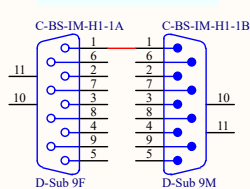
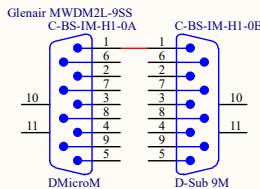
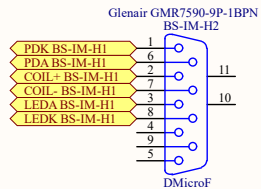
OSEM

IM OSEM to BF Cable
JGW-D1503901 Sheet 02BF to PI Signal Cable
JGW-D1503901 Sheet 08TR-Flange Signal Cable
JGW-D1503901 Sheet 19

Feedthrough

Anti-Feedthrough Adapter Cable

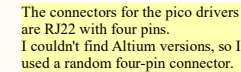
OSEM External Cable

Sat Amp #2
D1402809

J-BS-SA3-103 and J-BS-SA3-104 not used

Title			
BS Suspension Cabling - Intermediate Mass OSEMs			
Size A3	Number JGW-D1503600	Revision -v8	
Date:	2016/04/12	Sheet 2 of 14	
File:	\\..02 IM OSEMs.SchDoc	Drawn By:	

3 Feedthroughs



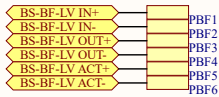
Title BS Suspension Cabling - Bottom and Standard Filter Picos/Steppers			
Size A3	Number JGW-D1503600	Revision -v8	
Date:	2016/04/12	Sheet 4of 14	
File:	\\.\04 BF&SF Picos&Steppers.SchDoc	Drawn By:	

BF and SF LVDT/ACTs

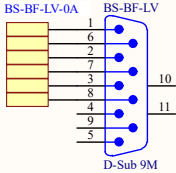
2 Feedthroughs

LVDT/Act

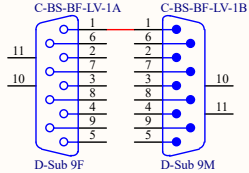
BS-BF-LV



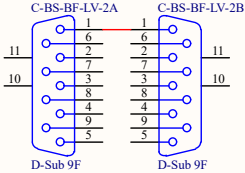
BF&SF LVDT Adapter Cable
JGW-D1503901 Sheet 06



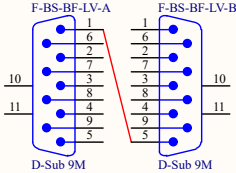
BF-PI Signal Cable
JGW-D1503901 Sheet 08



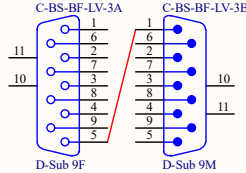
TR-Flange Signal Cable
JGW_D1503901 Sheet 19



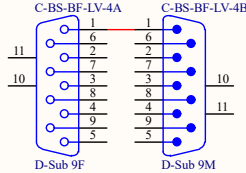
Feedthrough



Feedthrough Adapter Cable

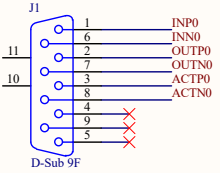


External Cable



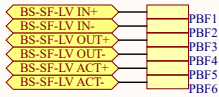
LVDT/ACT Distributor
JGW-D1402124,
Front Panel
JGW-D1402827
Board
JGW-D1402117 #2

Ch 4

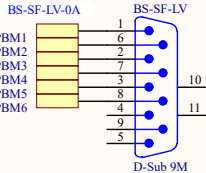


LVDT/Act

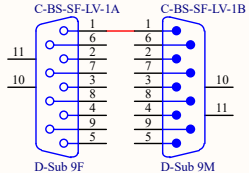
BS-SF-LV



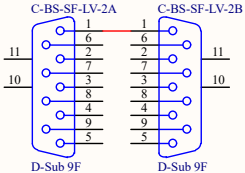
BF&SF LVDT Adapter Cable
JGW-D1503901 Sheet 06



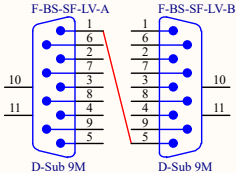
SF-PI Signal Cable
JGW-D1503901 Sheet 09



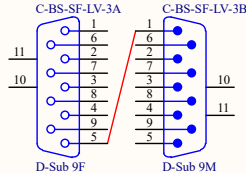
TR-Flange Signal Cable
JGW_D1503901 Sheet 19



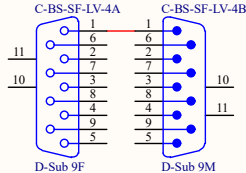
Feedthrough



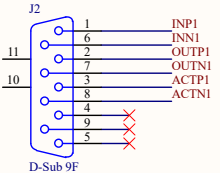
Feedthrough Adapter Cable



External Cable

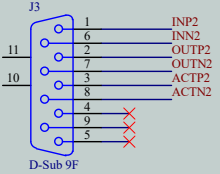


Ch 5

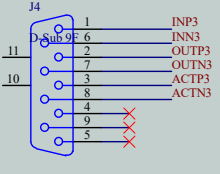


(Unused)

Ch 6



Ch 7



Title BS Suspension Cabling - Bottom and Standard Filter LVDTs		
Size A3	Number JGW-D1503600	Revision -v8
Date: 2016/04/12	Sheet 5 of 14	
File: \\..05 BF&SF LVDTs.SchDoc	Drawn By:	

4 Feedthroughs

Preisolator LVDT/ACTs

OPTIONAL
Signal Cable Extension
JGW_D1503901 Sheet 10

TR-Flange Signal Cable
JGW_D1503901 Sheet 19

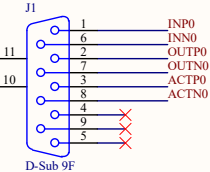
Feedthrough

Anti-Feedthrough Adapter Cable

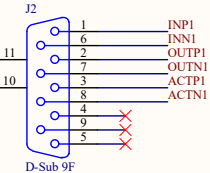
LVDT/ACT External Cable

LVDT/ACT Distributor
JGW-D1402124,
Front Panel
JGW-D1402827
Board
JGW-D1402117 #1

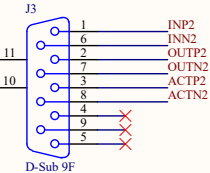
Ch 0



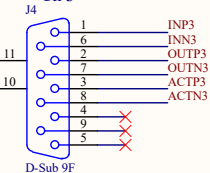
Ch 1



Ch 2



Ch 3



LVDT-COIL

Pin	Function
1	LVDT IN P
2	LVDT OUT P
3	COIL P
4	
5	
6	LVDT IN N
7	LVDT OUT N
8	COIL N
9	

Title BS Suspension Cabling - Preisolator LVDT/Actuators		
Size A3	Number JGW-D1503600	Revision -v8
Date: 2016/04/12	Sheet 6 of 14	
File: _06 PI LVDTs.SchDoc	Drawn By:	

4 Feedthroughs

Preisolator Steppers

TMCM-6110
Stepper Driver #2

Stepper Driver #2
JGW-D1600TBD
Board
TMCM-6110
Serial-Internet Converter
MOXA

Stepper

PI Stepper Adapter
JGW-D1503901 Sheet 24

OPTIONAL

Motor Cable Extension
JGW_D1503901 Sheet 16

TR to Flange Motor Cable
JGW-D1503901 Sheet 20

Feedthrough

Anti-Feedthrough Adapter Cable

Stepper External Cable

Stepper Splitter Cable
Double Motor Version

C-BS-PI-SY/SV-2A

C-BS-PI-SY/SV-2B

F-BS-PI-SY/SV-A

F-BS-PI-SY/SV-B

C-BS-PI-SY/SV-3A

C-BS-PI-SY/SV-3B

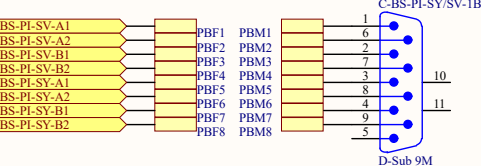
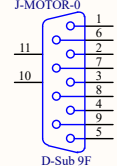
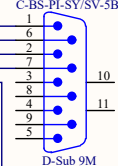
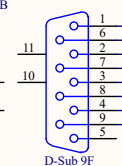
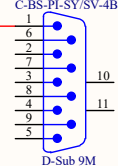
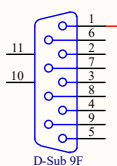
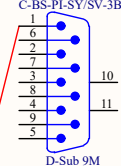
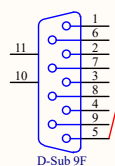
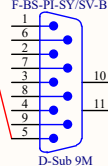
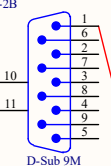
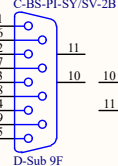
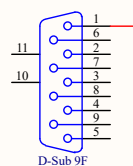
C-BS-PI-SY/SV-4A

C-BS-PI-SY/SV-4B

C-BS-PI-SY/SV-5A

C-BS-PI-SY/SV-5B

J-MOTOR-0



The vertical and yaw steppers have no limit switches and are combined on a single cable that VIS needs to provide.

The horizontal steppers have limit switches and will be wired as indicated by the IP manufacturer.

PI to Flange Motor Cable
JGW-D1503901 Sheet 13

Stepper Splitter Cable
Motor+Switch Version

C-BS-PI-S1-2A

C-BS-PI-S1-2B

F-BS-PI-S1-A

F-BS-PI-S1-B

C-BS-PI-S1-3A

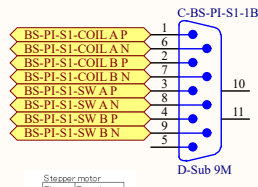
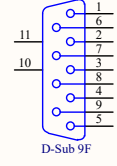
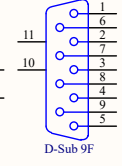
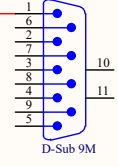
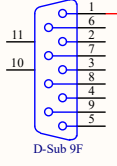
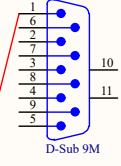
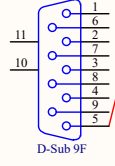
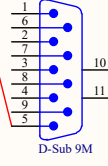
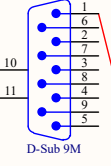
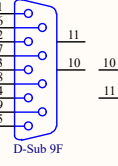
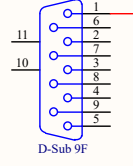
C-BS-PI-S1-3B

C-BS-PI-S1-4A

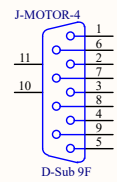
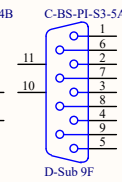
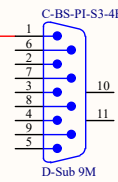
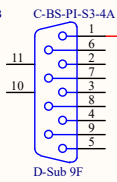
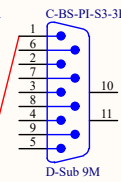
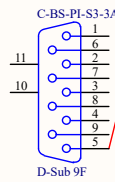
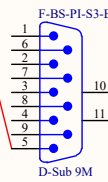
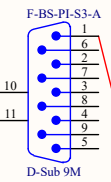
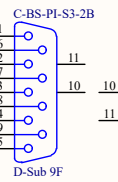
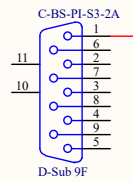
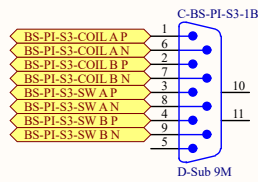
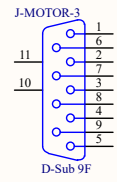
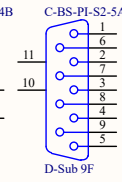
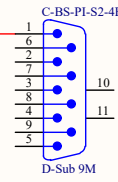
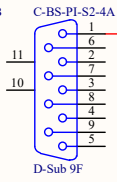
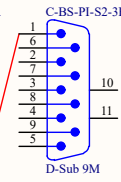
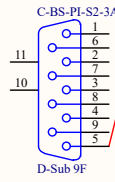
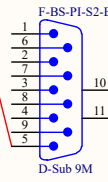
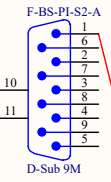
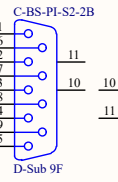
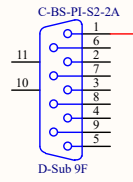
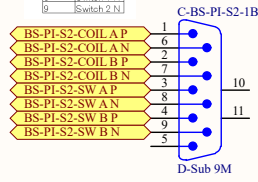
C-BS-PI-S1-4B

C-BS-PI-S1-5A

J-MOTOR-2



Pin	Function
1	COIL A P
2	COIL B P
3	Switch 1 P
4	Switch 2 P
5	
6	COIL A N
7	COIL B N
8	Switch 1 N
9	Switch 2 N



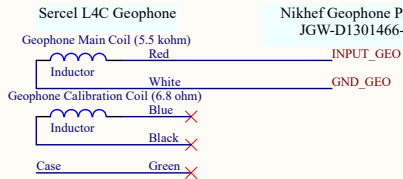
Title		
BS Suspension Cabling - Preisolator Steppers		
Size A3	Number JGW-D1503600	Revision ~v8
Date: 2016/04/12	Sheet 7 of 14	
File: \\..07 PI Steppers.SchDoc	Drawn By:	

3 Feedthroughs

Preisolator Geophones

Geophone Pod Internal Cabling
(same for all three pods):

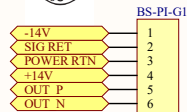
Pod #1: geophone L400002322, preamp 15
Pod #2: geophone L400002321, preamp 12
Pod #3: geophone L400002323, preamp 14



Note: The usual TR to
Flange Signal Cable
(D1503901 Sheet 19)
cannot be used here
because it doesn't have a
conductor on Pin 5!!!

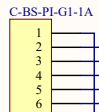


Geophone Pod



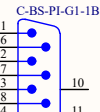
MIL C 26482 10-6 Male

(A)
(B)
(C)
(D)
(E)
(F)

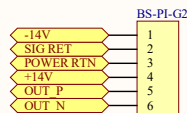


MIL C 26482 10-6 Female

Geophone Adapter Cable
JGW-D1503901 Sheet 07

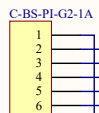


D-Sub 9M

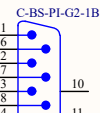


MIL C 26482 10-6 Male

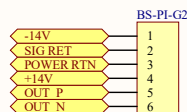
(A)
(B)
(C)
(D)
(E)
(F)



MIL C 26482 10-6 Female

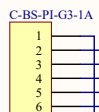


D-Sub 9M

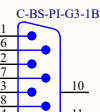


MIL C 26482 10-6 Male

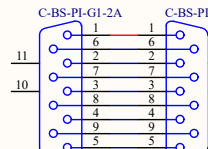
(A)
(B)
(C)
(D)
(E)
(F)



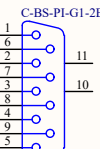
MIL C 26482 10-6 Female



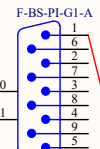
D-Sub 9M



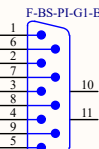
D-Sub 9F



D-Sub 9F

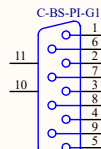


D-Sub 9M

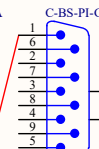


D-Sub 9M

Feedthrough

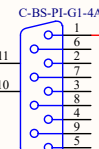


D-Sub 9F

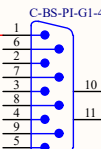


D-Sub 9M

Anti-Feedthrough Adapter Cable

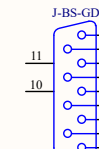


D-Sub 9F



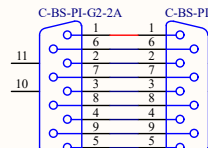
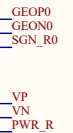
D-Sub 9M

Geophone External Cable

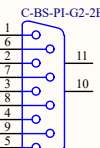


D-Sub 9F

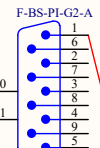
Geophone Distributor
JGW-D1402120



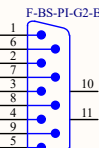
D-Sub 9F



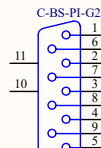
D-Sub 9F



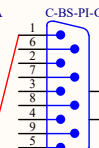
D-Sub 9M



D-Sub 9M

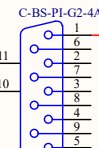


D-Sub 9F

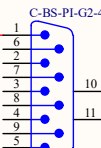


D-Sub 9M

Geophone External Cable

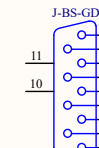


D-Sub 9F

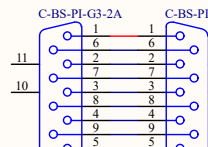


D-Sub 9M

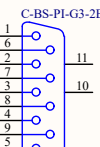
Geophone External Cable



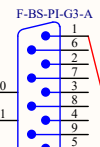
D-Sub 9F



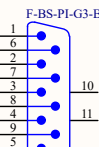
D-Sub 9F



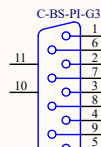
D-Sub 9F



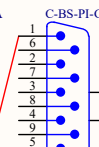
D-Sub 9M



D-Sub 9M

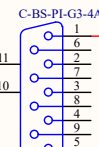


D-Sub 9F

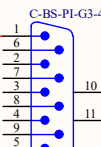


D-Sub 9M

Geophone External Cable

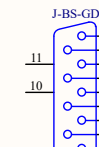


D-Sub 9F

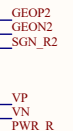


D-Sub 9M

Geophone External Cable



D-Sub 9F

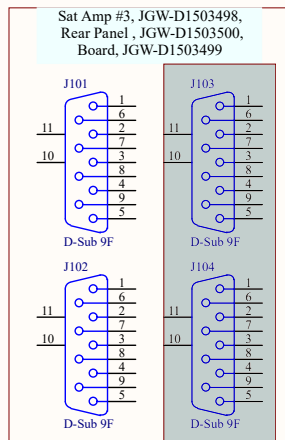
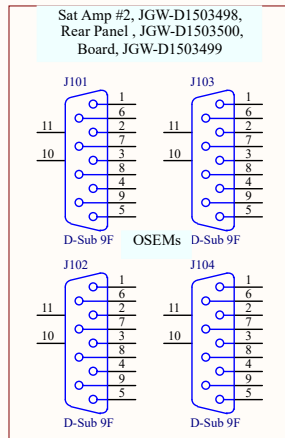
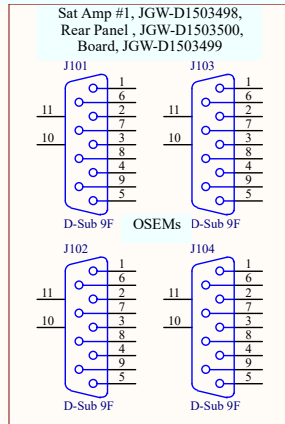


J-BS-GD-4 not used

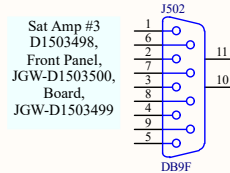
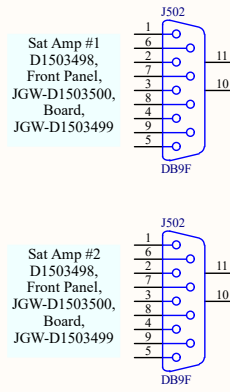
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BS Suspension Cabling - Preisolator Geophones		
Size	Number	Revision
A3	JGW-D1503600	-v8
Date:	2016/04/12	Sheet 8 of 14
File:	\\.\08 PI Geophones.SchDoc	Drawn By:

OSEM Sat Amps and Drivers

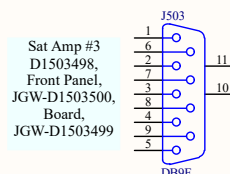
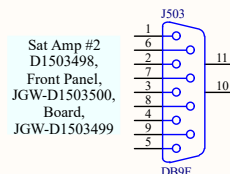
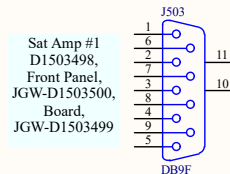
Sat Amp Inputs from OSEMs (see Sheets 1&2)



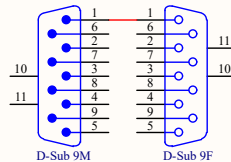
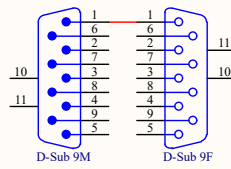
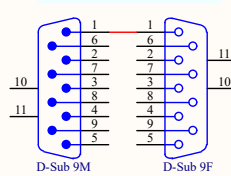
Sat Amp PD Outputs



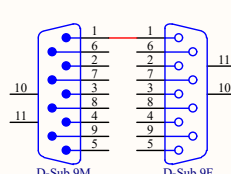
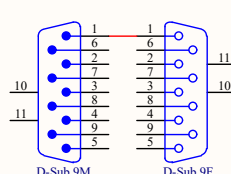
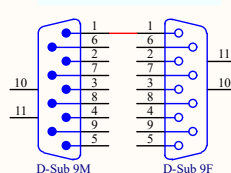
Sat Amp LED Current Monitor Outputs



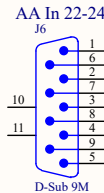
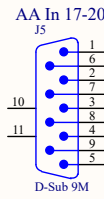
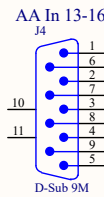
Generic D-Sub 9 Cable M-F



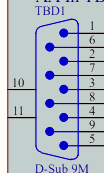
Generic D-Sub 9 Cable M-F



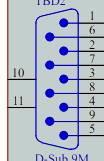
AA Chassis #1 D1100621



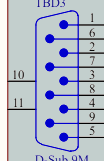
AA In TBD TBD1



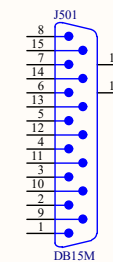
AA In TBD TBD2



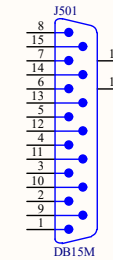
AA In TBD TBD3



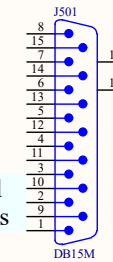
Sat Amp #1
JGW-D1503498,
Front,
JGW-D1503500,
Board,
JGW-D1503499



Sat Amp #2
JGW-D1503498,
Front,
JGW-D1503500,
Board,
JGW-D1503499

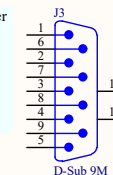


Sat Amp #3
JGW-D1503498,
Front,
JGW-D1503500,
Board,
JGW-D1503499

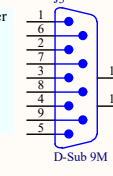


Sat Amp Coil Current Inputs

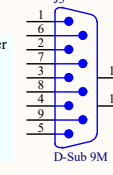
Low Power Coil Driver
#1
JGW-D1503506,
Front Panel,
JGW-D1503508,
Board,
JGW-D1503507



Low Power Coil Driver
#2
JGW-D1503506,
Front Panel,
JGW-D1503508,
Board,
JGW-D1503507

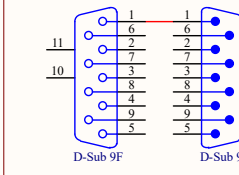
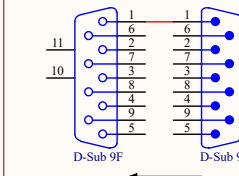
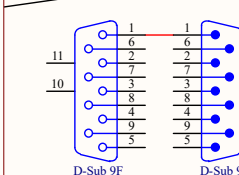
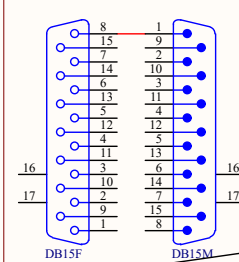
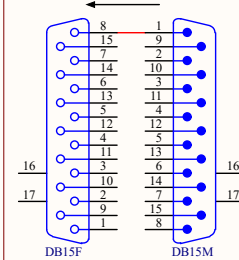
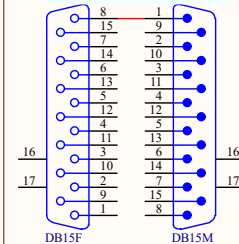


Low Power Coil Driver
#3
JGW-D1503506,
Front Panel,
JGW-D1503508,
Board,
JGW-D1503507

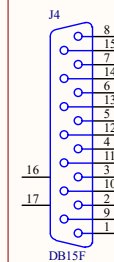


Coil Current Request Inputs

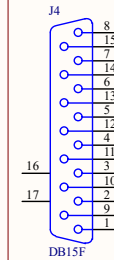
Generic D-Sub 15 Cable M-F



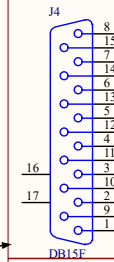
Generic D-Sub 9 Cable M-F



Low Power Coil Driver
#1
JGW-D1503506,
Rear Panel,
JGW-D1503509,
Board,
JGW-D1503507

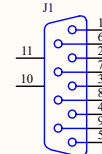


Low Power Coil Driver
#2
JGW-D1503506,
Rear Panel,
JGW-D1503509,
Board,
JGW-D1503507

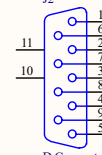


Low Power Coil Driver
#3
JGW-D1503506,
Rear Panel,
JGW-D1503509,
Board,
JGW-D1503507

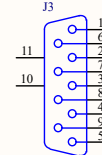
AI Out 1-4



AI Out 5-8



AI Out 9-12



BS Suspension Cabling - OSEM Sat Amps & Drivers

Size	Number	Revision
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Date:	2016/04/12	Sheet 9 of 14
File:	\\.\09 Sat Amps & Coil Drivers.SchDoc	Drawn By:

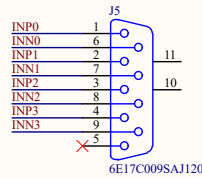
BS&SF LVDT Drivers

Inputs from
BS&SF
LVDTs
(see Sheet 5)

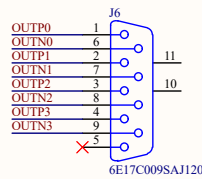
LVDT/ACT Distributor
JGW-D1402124,
Front Panel
JGW-D1402827
Board
JGW-D1402117 #2

LVDT/ACT Distributor
JGW-D1402124,
Rear Panel
JGW-D1402828,
Board
JGW-D1402117 #2

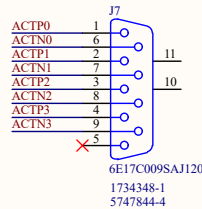
Ch 4-7 LVDT-IN



Ch 4-7 LVDT-OUT



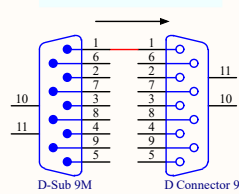
Ch 4-7 ACT



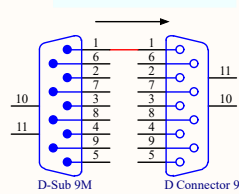
2 inputs
unused

Ch 6
Ch 7

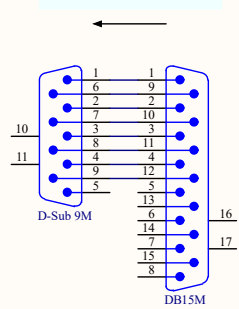
Generic D-Sub 9 Cable M-F



Generic D-Sub 9 Cable M-F



LVDT-Coil Driver Cable

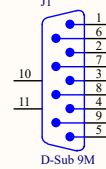
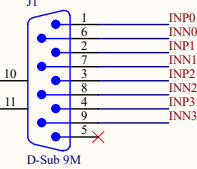


LVDT Driver Chassis
JGW-D1402826,
Front Panel
JGW-D1402827
Input Board #2
JGW-D1301467

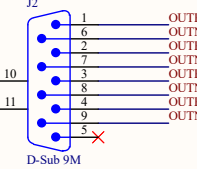
LVDT Driver Chassis
JGW-D1402826,
Front Panel
JGW-D1402827
Main Board
JGW-D1301467

LVDT MAIN (Right)

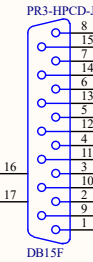
LVDT CARD 2 (Left)



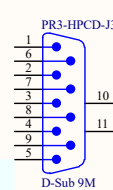
LVDT CARD 2 (Right)



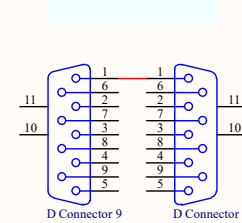
High Power Coil Driver #2
JGW-D1503504,
Rear Panel,
JGW-D1503505,
Monitor Board
JGW-D1503510



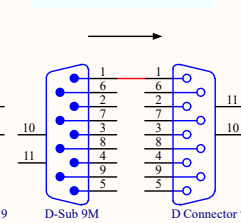
High Power Coil Driver #1
JGW-D1503504,
Front Panel,
JGW-D1503502,
Driver Board
JGW-D1503503



Gender Bender F-F

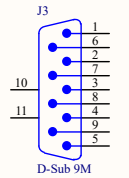


Generic D-Sub 9 Cable M-F



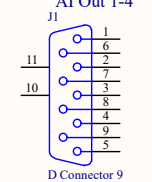
AA Chassis #1
JGW-D1100621

AA In 9-12



AI Chassis #2
D1101521

AI Out 1-4



Signal Generator
10 kHz, 5 V



The LVDT Chassis has provision for an oscillator card, but until such time as the cards are available, an external oscillator will be required

Cable

LVDT Driver Chassis
JGW-D1402826,
Front Panel
JGW-D1402827
Interface Board
JGW-D1402829

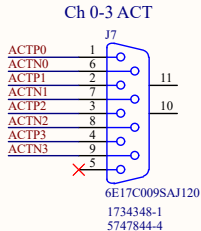
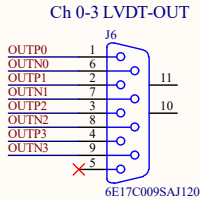
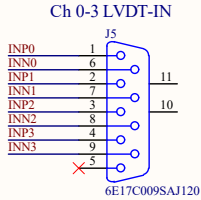
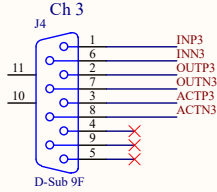
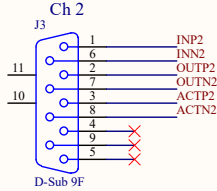
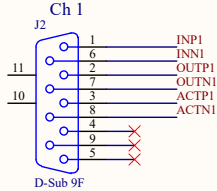
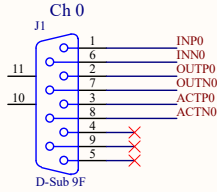


Title BS Suspension Cabling - BS&SF LVDT Drivers		
Size A3	Number JGW-D1503600	Revision -v8
Date: 2016/04/12	Sheet 10	of 14
File: \\.\10 BS&SF LVDT Drive.SchDoc	Drawn By:	

Inputs from PI
LVDTs
(see Sheet 6)

LVDT/ACT Distributor
JGW-D1402124,
Rear Panel
JGW-D1402828,
Board
JGW-D1402117 #1

LVDT/ACT Distributor
JGW-D1402124,
Front Panel
JGW-D1402827
Board
JGW-D1402117 #1

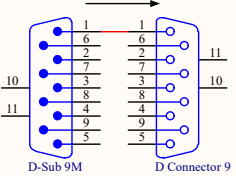


PI LVDT Drivers

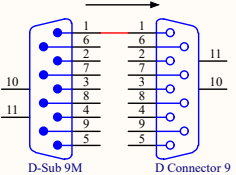
LVDT Driver Chassis
JGW-D1402826,
Front Panel
JGW-D1402827
Input Board #1
JGW-D1301467

LVDT Driver Chassis
JGW-D1402826,
Front Panel
JGW-D1402827
Main Board
JGW-D1301467

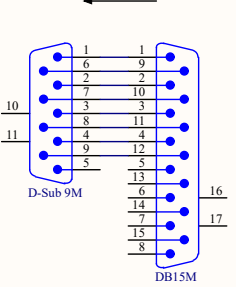
Generic D-Sub 9 Cable M-F



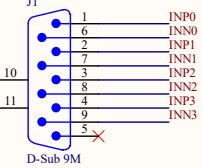
Generic D-Sub 9 Cable M-F



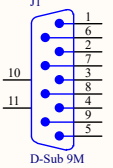
LVDT-Coil Driver Cable



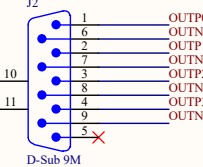
LVDT CARD 1 (Left)



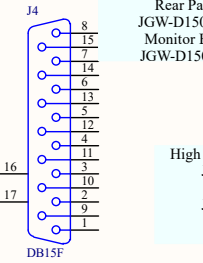
LVDT MAIN (Left)



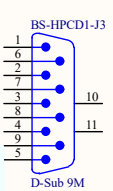
LVDT CARD 1 (Right)



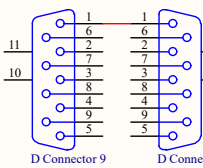
High Power Coil Driver #1
JGW-D1503504,
Rear Panel,
JGW-D1503505,
Monitor Board
JGW-D1503510



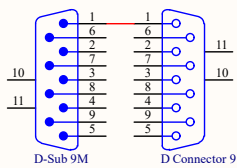
High Power Coil Driver #1
JGW-D1503504,
Front Panel,
JGW-D1503502,
Driver Board
JGW-D1503503



Gender Bender F-F

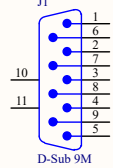


Generic D-Sub 9 Cable M-F



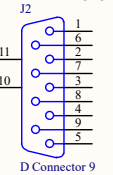
AA Chassis #1
JGW-D1100621

AA In 1-4

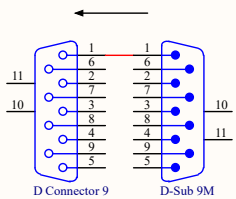


AI Chassis #2
D1101521

AI Out 5-8



Generic D-Sub 9 Cable M-F



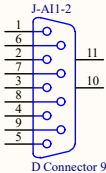
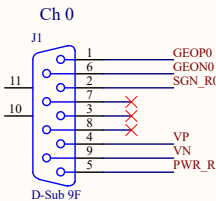
3 Feedthroughs

Geophone Readout

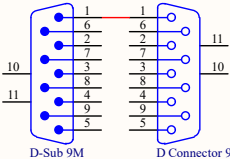
Inputs from PI
Geophones
(see Sheet 8)

Geophone Distributor
D1402120
Front Panel
D1402122
Board
D1402121

Geophone Distributor
D1402120
Rear Panel
D1402123
Board
D1402121

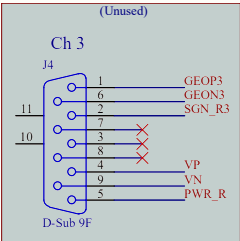
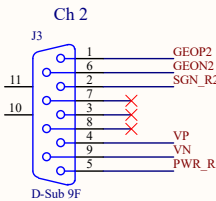
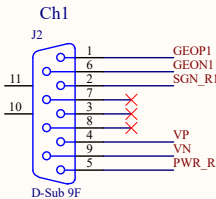
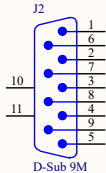


Generic D-Sub 9 Cable M-F



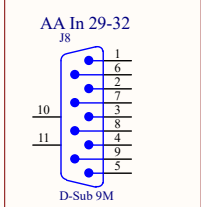
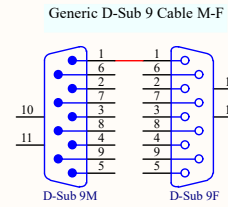
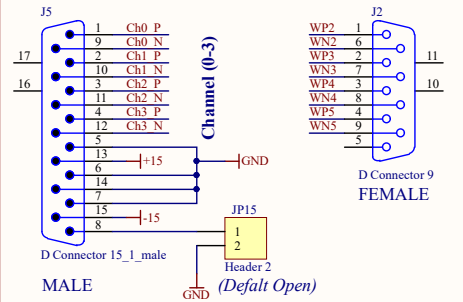
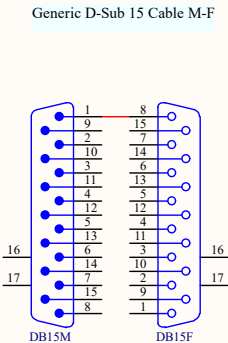
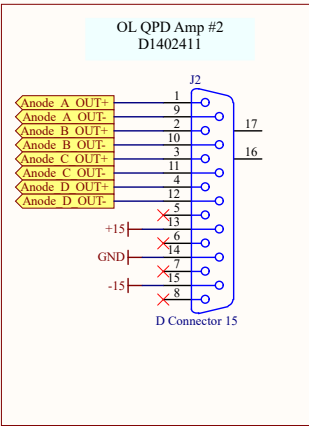
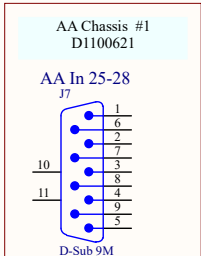
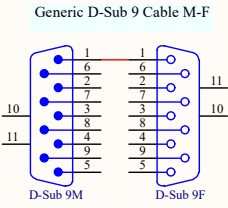
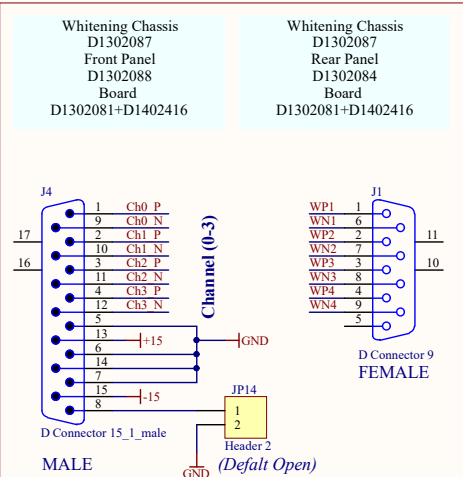
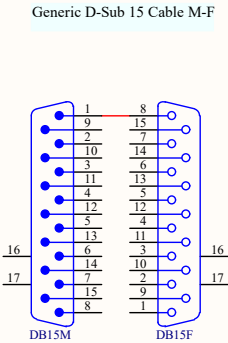
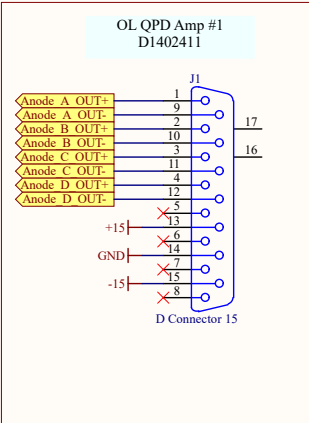
AA Chassis #1
JGW-D1100621

AA In 5-8

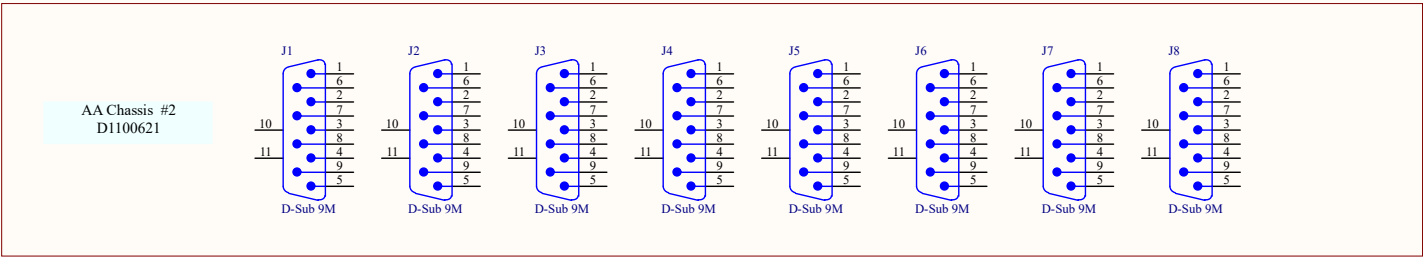


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Size	Number	Revision		
A3	JGW-D1503600	13	-v8	
Date:	2016/04/12	Sheet	of	14
File:	\\v.113 Geophone Readout.SchDoc	Drawn By:		

OpLev Etc



SECOND AA CHASSIS FOR TEST, SEISMOMETERS, ETC!!!



Title BS Suspension Cabling - OpLev Etc		
Size A3	Number JGW-D1503600	Revision -v8
Date: 2016/04/12	Sheet 14	of 14
File: \\.\14 OpLev Etc.SchDoc	Drawn By:	