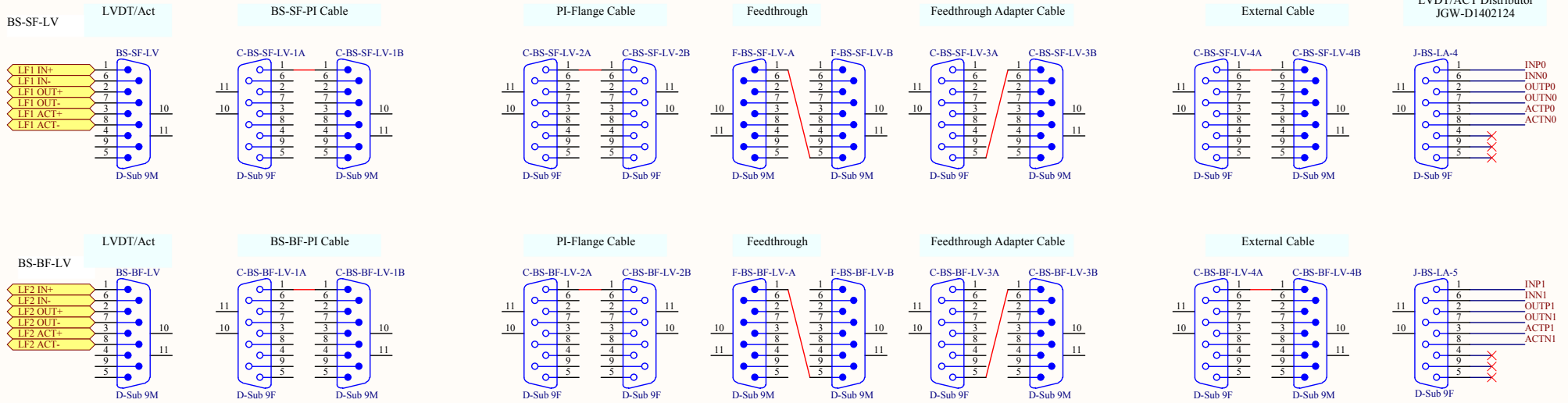


BF and SF LVDT/ACTs

2 Feedthroughs



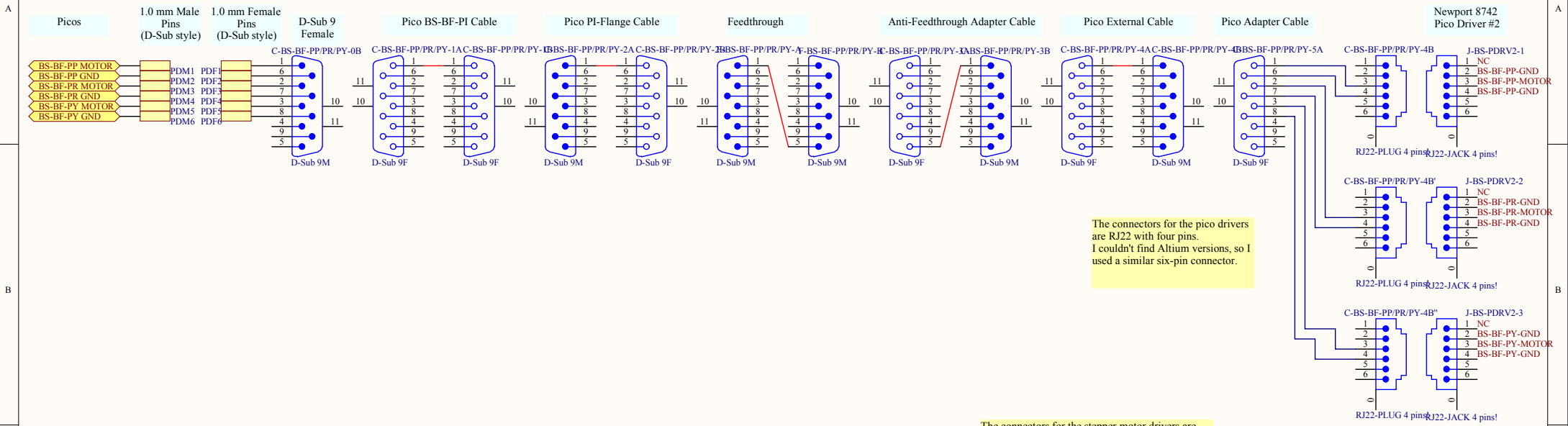
J-BS-LA-6 and J-BS-LA-7 not used

Title			BS Suspension Cabling - Bottom and Standard Filter LVDTs		
Size	Number	Revision			
A3	JGW-D1503600	-v3			
Date:	2015/06/08	Sheet of			
File:	Z:\Work\BF&SF LVDTs.SchDoc	Drawn By:			

BF and SF Picomotors and Steppers

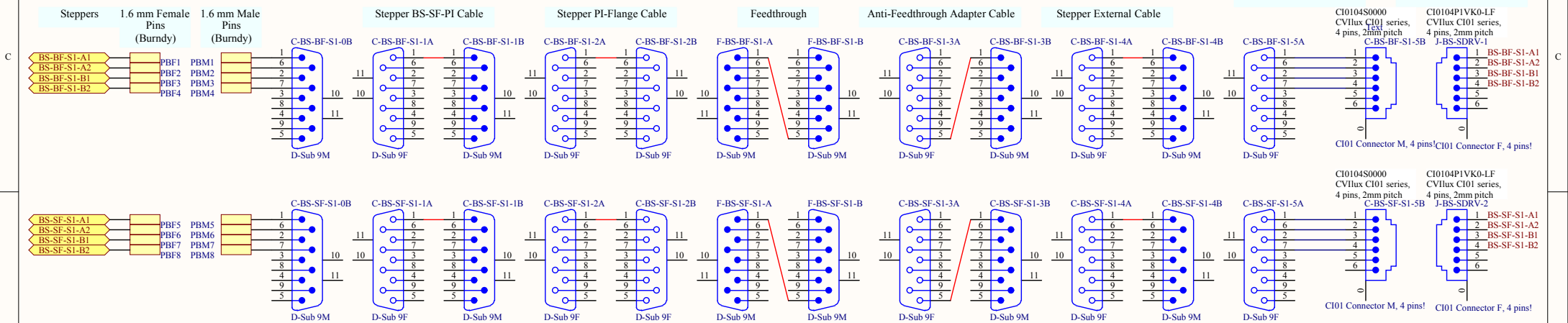
3 Feedthroughs

Pin-1 Black Not Connected
 Pin-2 Red Ground
 Pin-3 Green Motor
 Pin-4 Yellow Ground



The connectors for the stepper motor drivers are CVIlux: CI01045000-A (plug, female), CI0104P1VK0-LF (jack, male) pairs with four pins. I couldn't find Altium versions, so I used a similar six-pin connector.

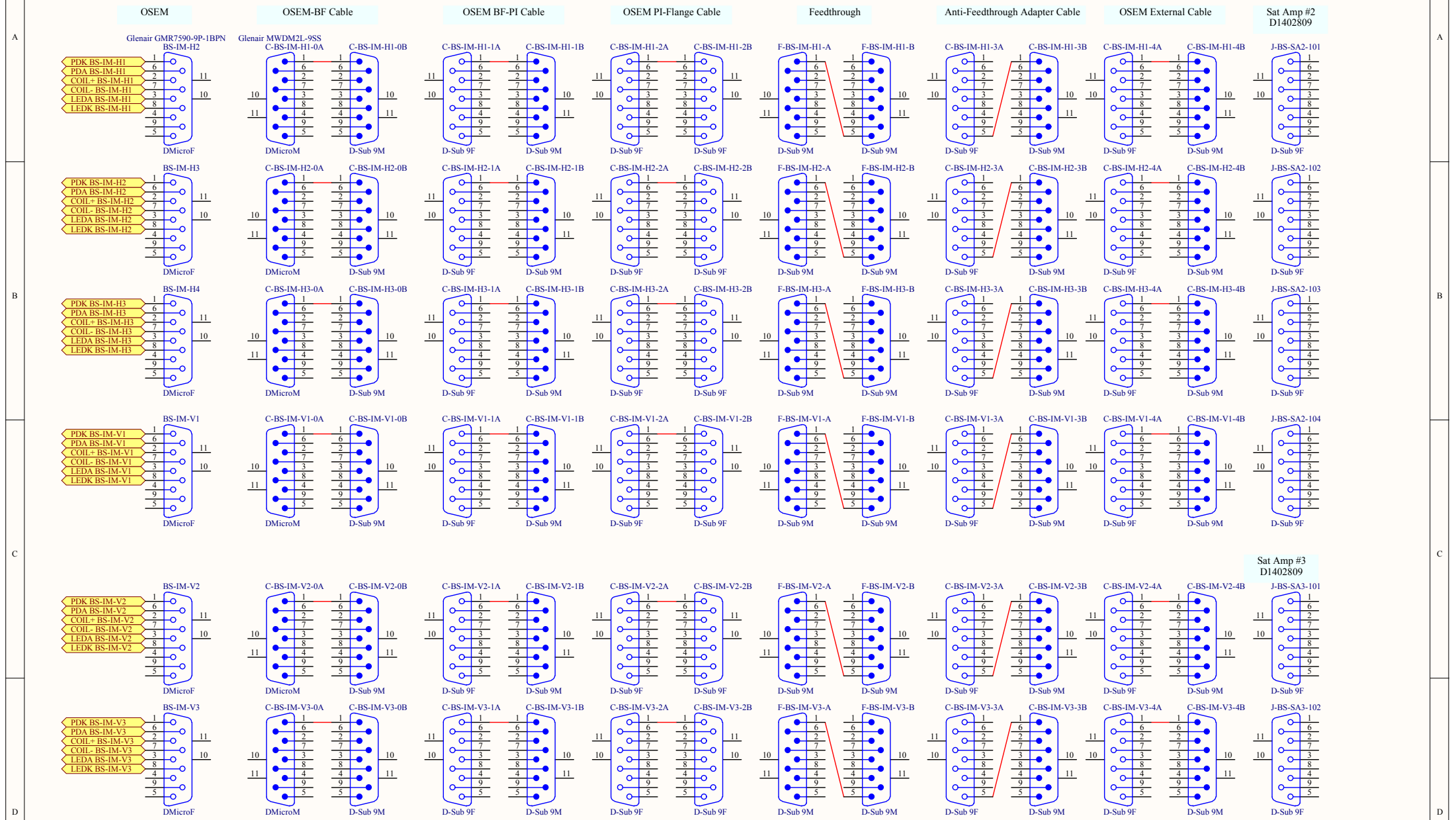
Pin	Label	Direction	Description
1	A1	Output	Pin 1 of motor coil A
2	A2	Output	Pin 2 of motor coil A
3	B1	Output	Pin 1 of motor coil B
4	B2	Output	Pin 2 of motor coil B



Title BS Suspension Cabling - Bottom and Standard Filter Picos/Steppers			
Size A3	Number JGW-D1503600	Revision -v3	
Date 2015/06/08	Sheet of 10		Drawn By:
File: Z:\Work\BF&SF Picos&Steppers.SchDoc			

6 Feedthroughs

IM OSEMs



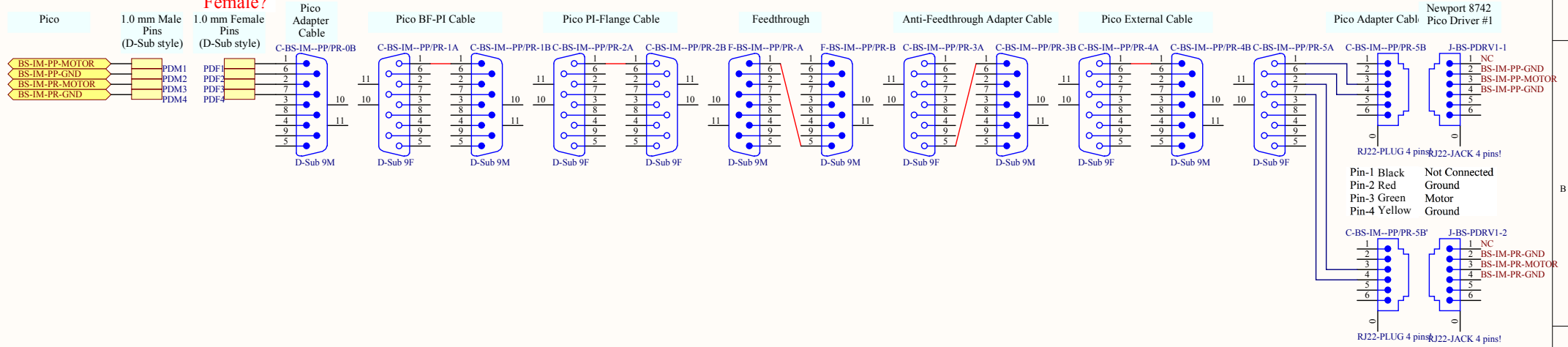
J-BS-SA3-103 and J-BS-SA3-104 not used

Title BS Suspension Cabling - Intermediate Mass OSEMs			
Size A3	Number JGW-D1503600	Revision -v3	
Date:	2015/06/08	Sheet of	
File:	Z:\Work\IM OSEMs.SchDoc	Drawn By:	

1 Feedthrough

IM Picomotors

Maybe
D-Sub
Female?



Title BS Suspension Cabling - Intermediate Mass Picos			
Size A3	Number JGW-D1503600	Revision -v3	
Date: 2015/06/08	Sheet of 1	Drawn By:	
File: Z:\Work\IM Picos.SchDoc			

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



Geophone Pod

Geophone Adapter Cable

Geophone-PI Cable

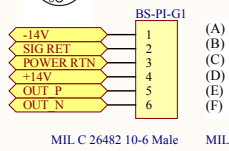
BS-PI-Flange Cable

Feedthrough

Anti-Feedthrough Adapter Cable

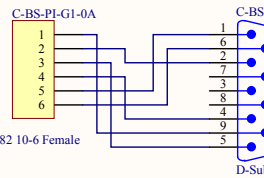
Geophone External Cable

Geophone Distributor
JGW-D1402120

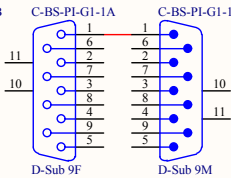


(A)
(B)
(C)
(D)
(E)
(F)

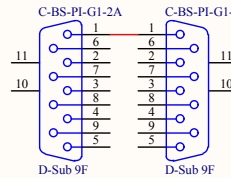
MIL C 26482 10-6 Female



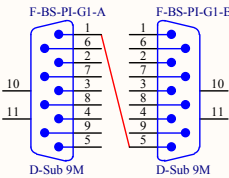
D-Sub 9M



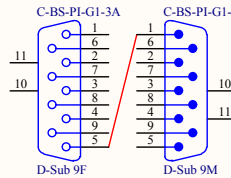
D-Sub 9M



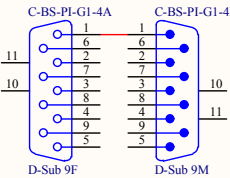
D-Sub 9M



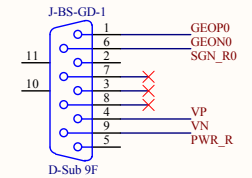
D-Sub 9M



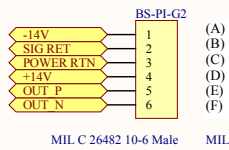
D-Sub 9M



D-Sub 9M

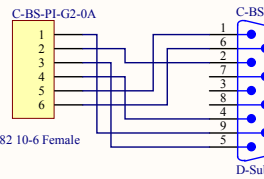


D-Sub 9M

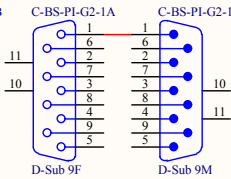


(A)
(B)
(C)
(D)
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(F)

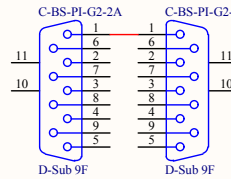
MIL C 26482 10-6 Female



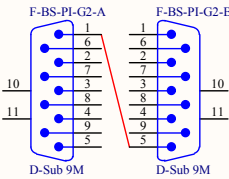
D-Sub 9M



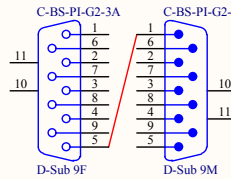
D-Sub 9M



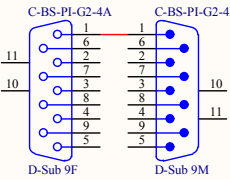
D-Sub 9M



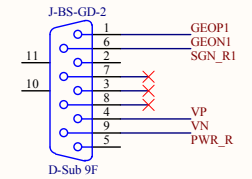
D-Sub 9M



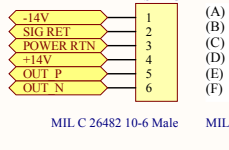
D-Sub 9M



D-Sub 9M

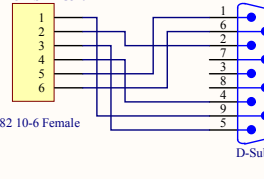


D-Sub 9M

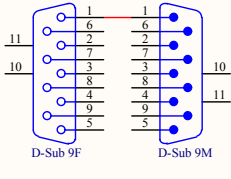


(A)
(B)
(C)
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(F)

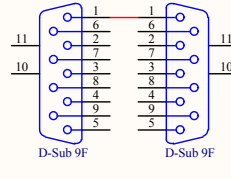
MIL C 26482 10-6 Female



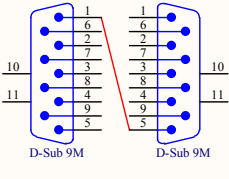
D-Sub 9M



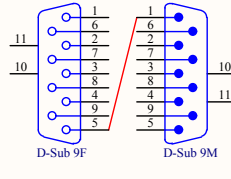
D-Sub 9M



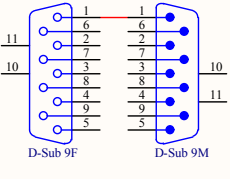
D-Sub 9M



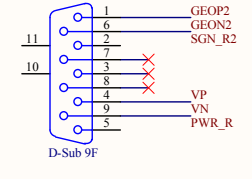
D-Sub 9M



D-Sub 9M



D-Sub 9M



D-Sub 9M

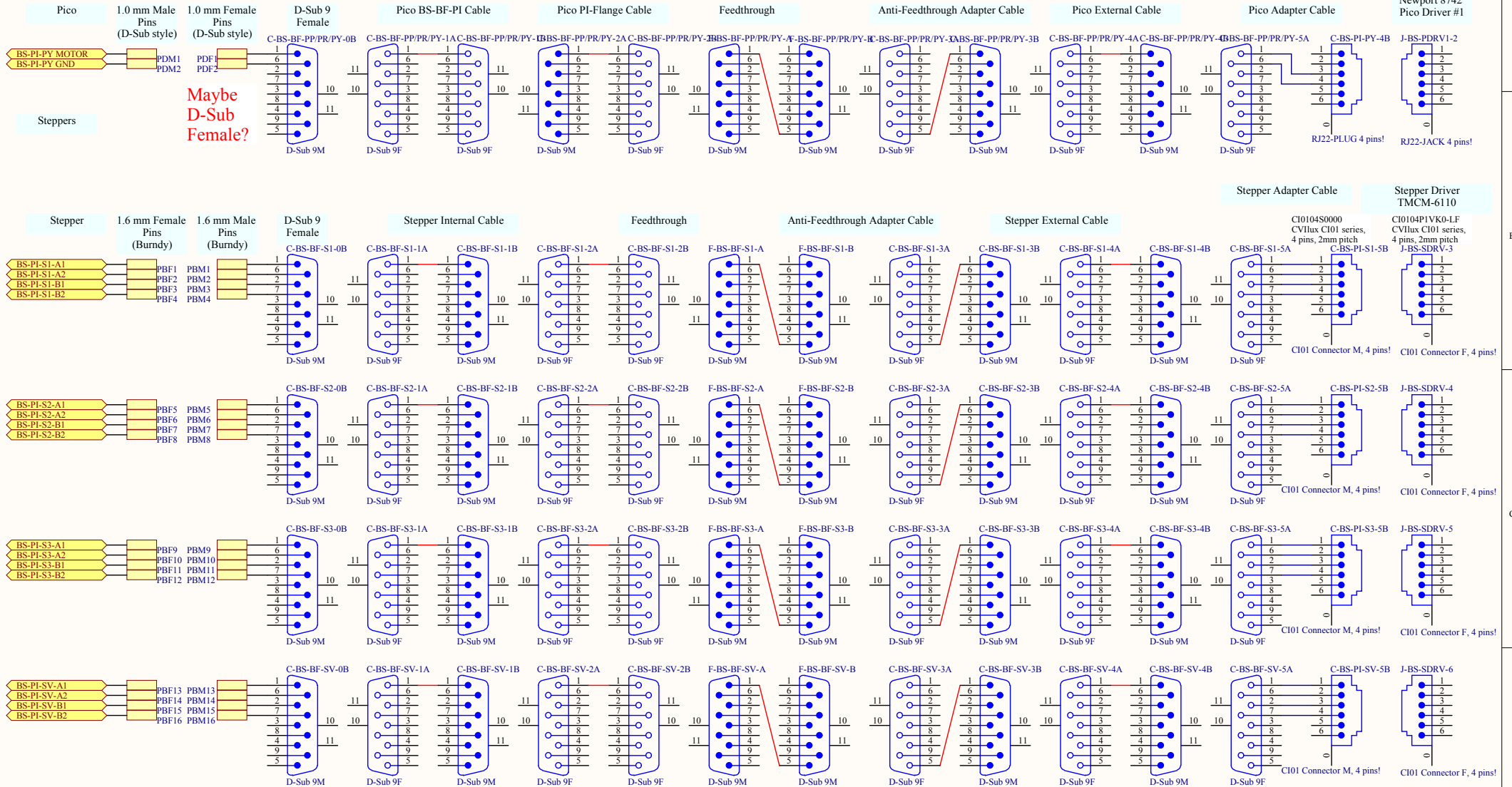
J-BS-GD-4 not used

Title			
BS Suspension Cabling - Preisolator Geophones			
Size	Number	Revision	
A3	JGW-D1503600	-v3	
Date:	2015/06/08	Sheet of	
File:	Z:\Work\PI Geophones.SchDoc	Drawn By:	

5 Feedthroughs

Preisolator Steppers/Pico

The connectors for the stepper motor drivers are CVIlux: C101045000-A (plug, female), C10104P1VK0-LF (jack, male) pairs with four pins. I couldn't find Altium versions, so I used a similar six-pin connector.



The connectors for the pico drivers are RJ22 with four pins. I couldn't find Altium versions, so I used a similar six-pin connector.

Pin-1 Black
Pin-2 Red
Pin-3 Green
Pin-4 Yellow
Not Connected Ground
Motor Ground

Title			
BS Suspension Cabling - Preisolator Steppers and Picomotor			
Size	Number	Revision	
A3	JGW-D1503600	-v3	
Date:	2015/06/08	Sheet of	
File:	Z:\Work\PI Picos&Steppers.SchDoc	Drawn By:	

4 Feedthroughs

TM OSEMs



5 <-> 1 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 -v3
Date: 2015/06/08	Sheet of	
File: Z:\Work\TM OSEMs\SchDoc	Drawn By:	