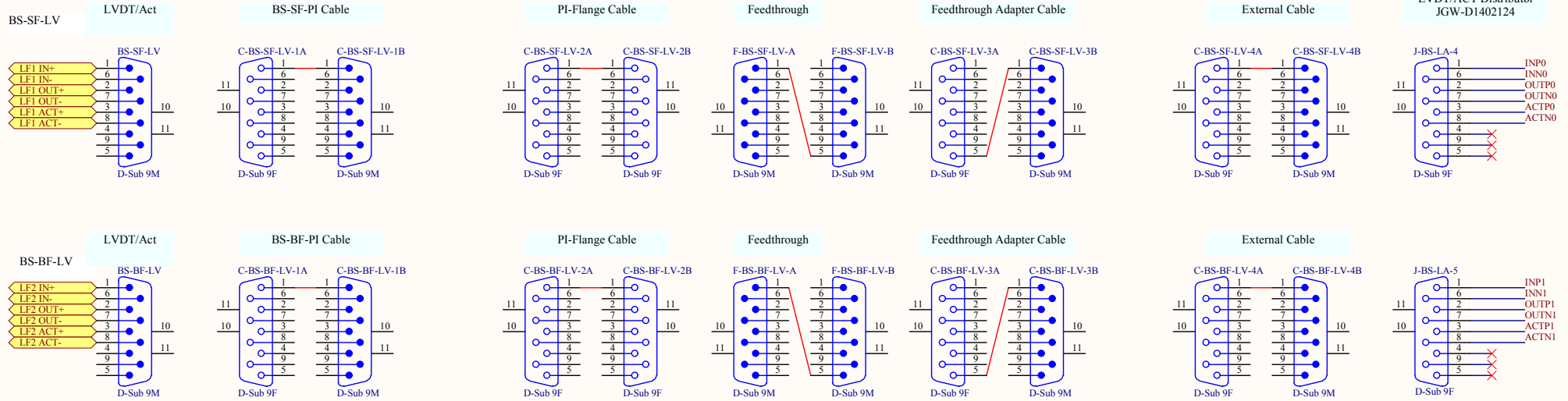


BF and SF LVDT/ACTs

2 Feedthroughs



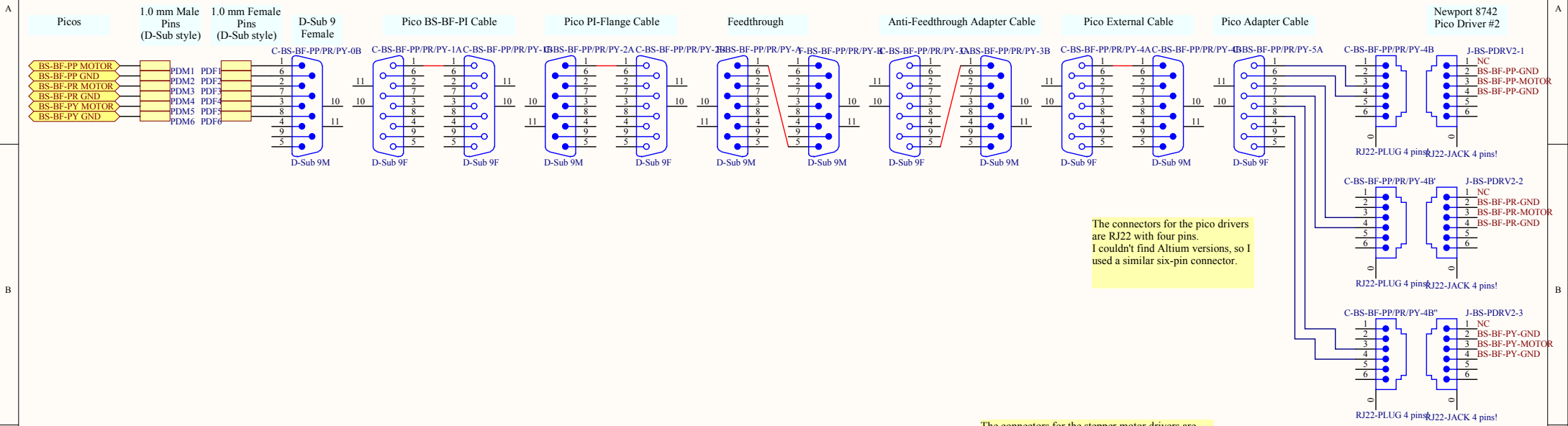
J-BS-LA-6 and J-BS-LA-7 not used

Title			BS Suspension Cabling - Bottom and Standard Filter LVDTs		
Size	Number	Revision			
A3	JGW-D1503382	-v2			
Date:	2015/06/08	Sheet of			
File:	Z:\Work\BF&SF LVDTs.SchDoc	Drawn By:			

BF and SF Picomotors and Steppers

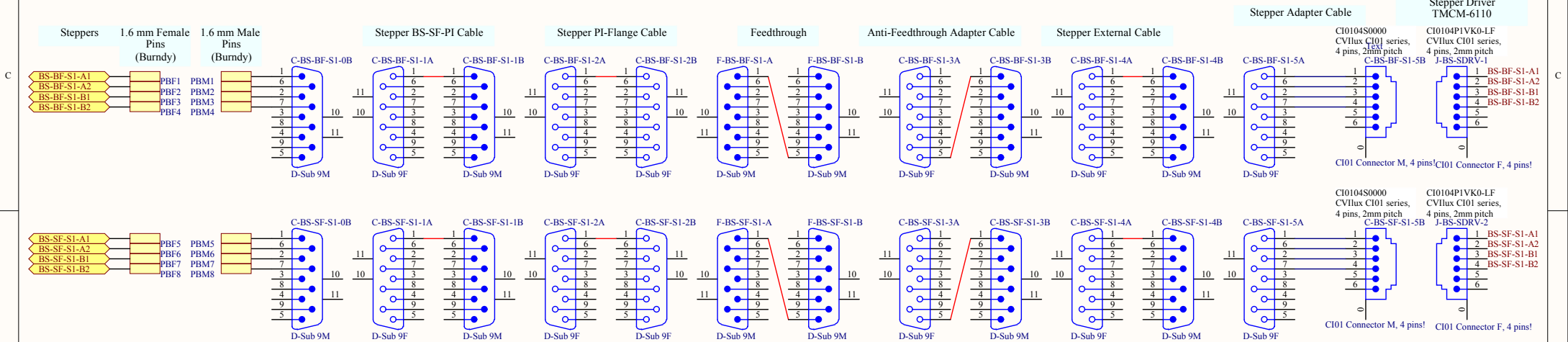
3 Feedthroughs

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



Stepper Adapter Cable

CI0104S0000
CVIlux CI01 series,
4 pins, 2mm pitch

CI0104P1VK0-LF
CVIlux CI01 series,
4 pins, 2mm pitch

CI01 Connector M, 4 pins!
CI01 Connector F, 4 pins!

Stepper Driver

CI0104S0000
CVIlux CI01 series,
4 pins, 2mm pitch

CI0104P1VK0-LF
CVIlux CI01 series,
4 pins, 2mm pitch

CI01 Connector M, 4 pins!
CI01 Connector F, 4 pins!

Title BS Suspension Cabling - Bottom and Standard Filter Picos/Steppers			
Size A3	Number JGW-D1503382	Revision -v2	
Date 2015/06/08	Sheet of 10		Drawn By:
File: Z:\Work\BF&SF Picos&Steppers.SchDoc			

6 Feedthroughs

IM OSEMs

OSEM

OSEM-BF Cable

OSEM BF-PI Cable

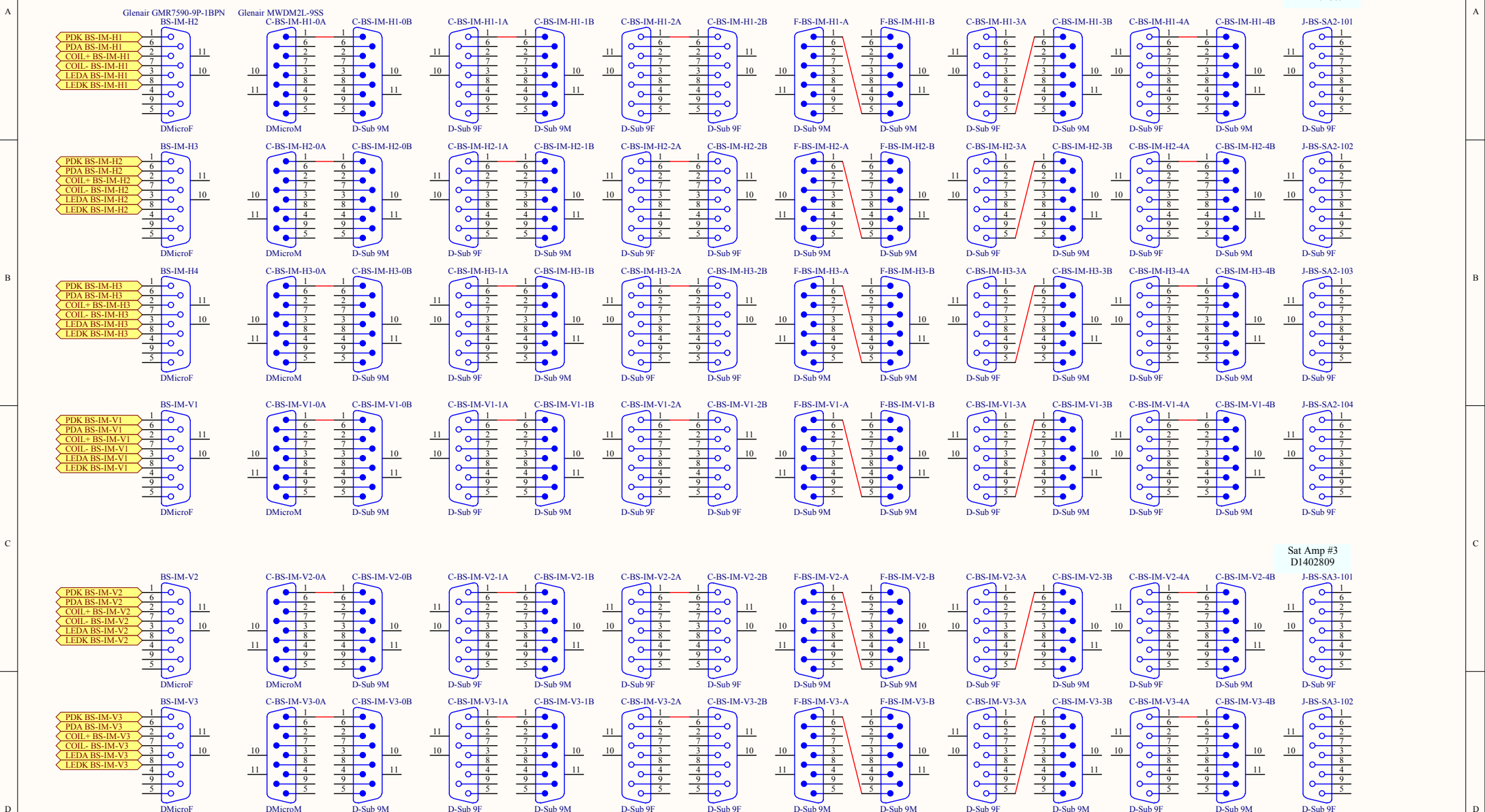
OSEM PI-Flange Cable

Feedthrough

Anti-Feedthrough Adapter Cable

OSEM External Cable

Sat Amp #2 D1402809



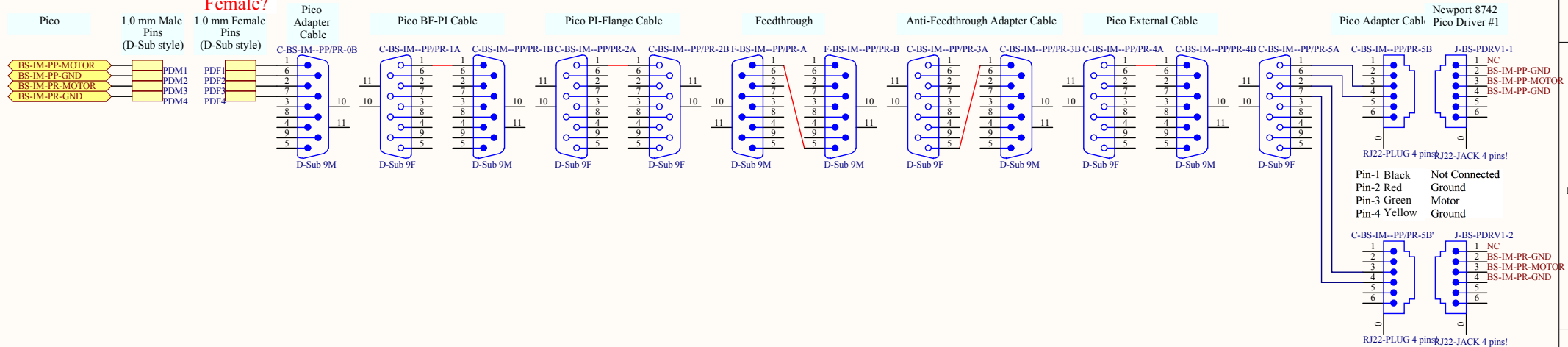
J-BS-SA3-103 and J-BS-SA3-104 not used

Title BS Suspension Cabling - Intermediate Mass OSEMs			
Size A3	Number JGW-D1503382	Revision -v2	
Date:	2015/06/08	Sheet of	
File:	Z:\Work\IM OSEMs.SchDoc	Drawn By:	

1 Feedthrough

IM Picomotors

Maybe
D-Sub
Female?



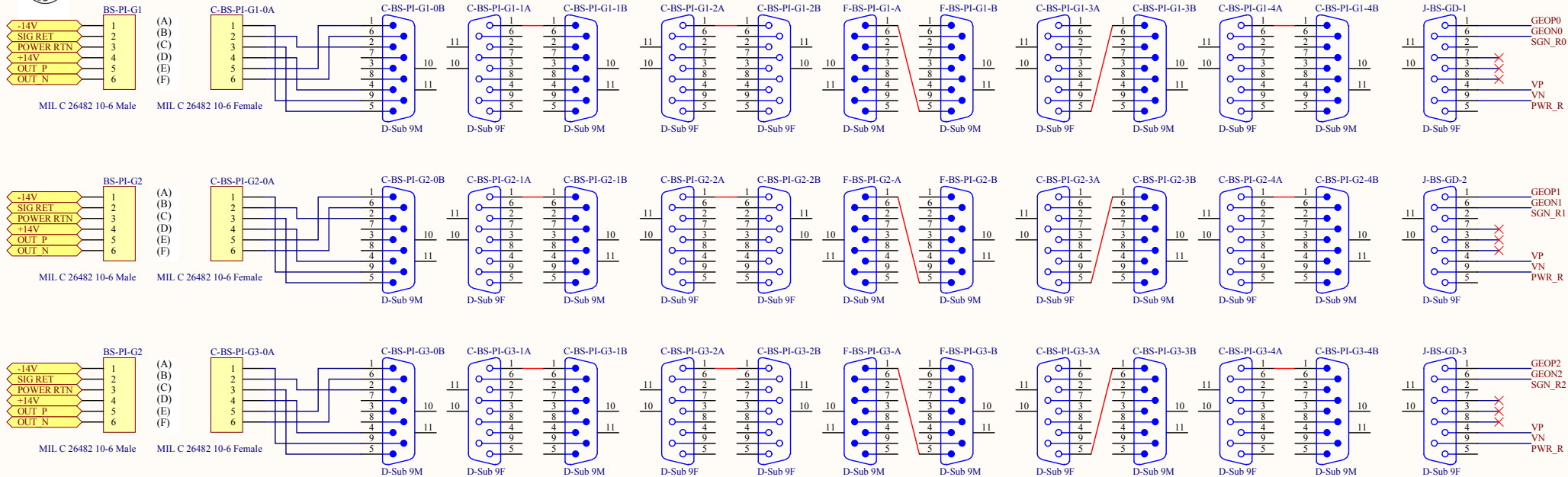
Title BS Suspension Cabling - Intermediate Mass Picos			
Size A3	Number JGW-D1503382	Revision -v2	
Date: 2015/06/08	Sheet of 1	Sheet of 1	Drawn By:
File: Z:\Work\IM Picos.SchDoc			

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



J-BS-GD-4 not used

Title			
BS Suspension Cabling - Preisolator Geophones			
Size	Number	Revision	
A3	JGW-D1503382	-v2	
Date:	2015/06/08	Sheet of	
File:	Z:\Work\PI Geophones.SchDoc	Drawn By:	

4 Feedthroughs

Preisolator LVDT/ACTs

LVDT/ACT

LVDT/ACT-PI Cable

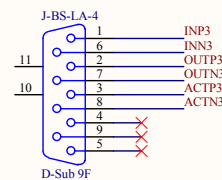
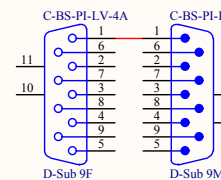
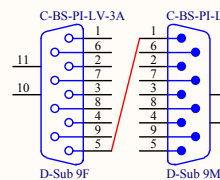
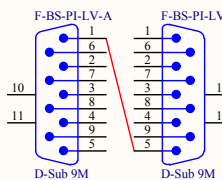
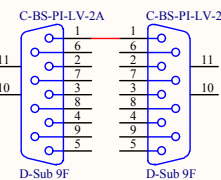
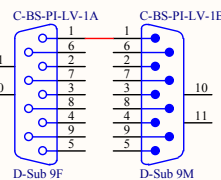
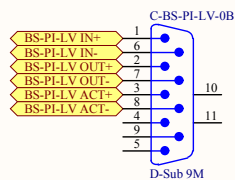
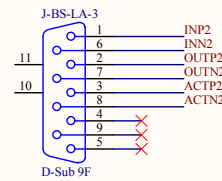
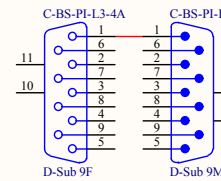
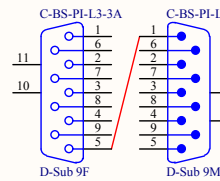
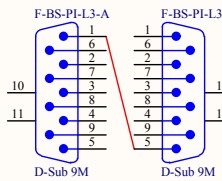
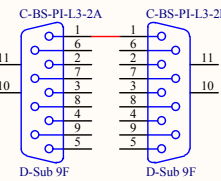
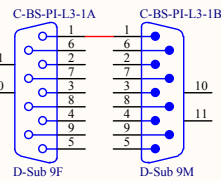
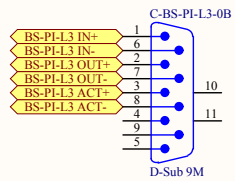
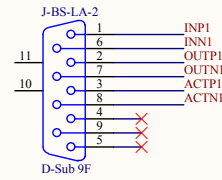
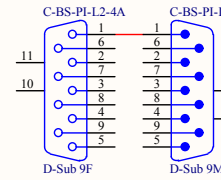
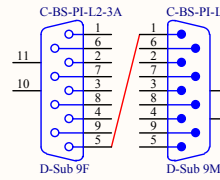
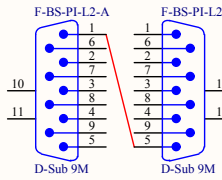
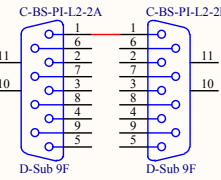
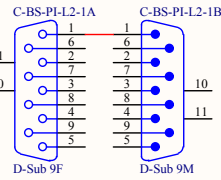
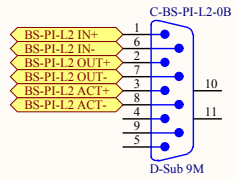
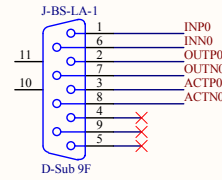
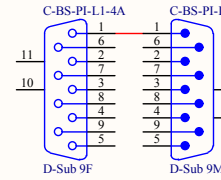
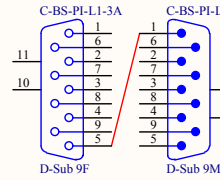
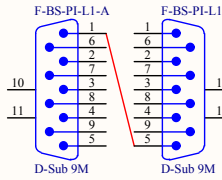
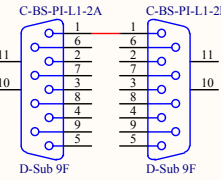
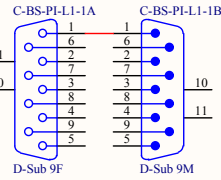
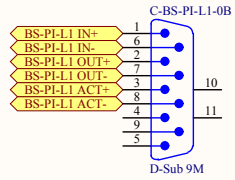
BS-PI-Flange Cable

Feedthrough

Anti-Feedthrough Adapter Cable

LVDT/ACT External Cable

LVDT/ACT Distributor
JGW D1402124

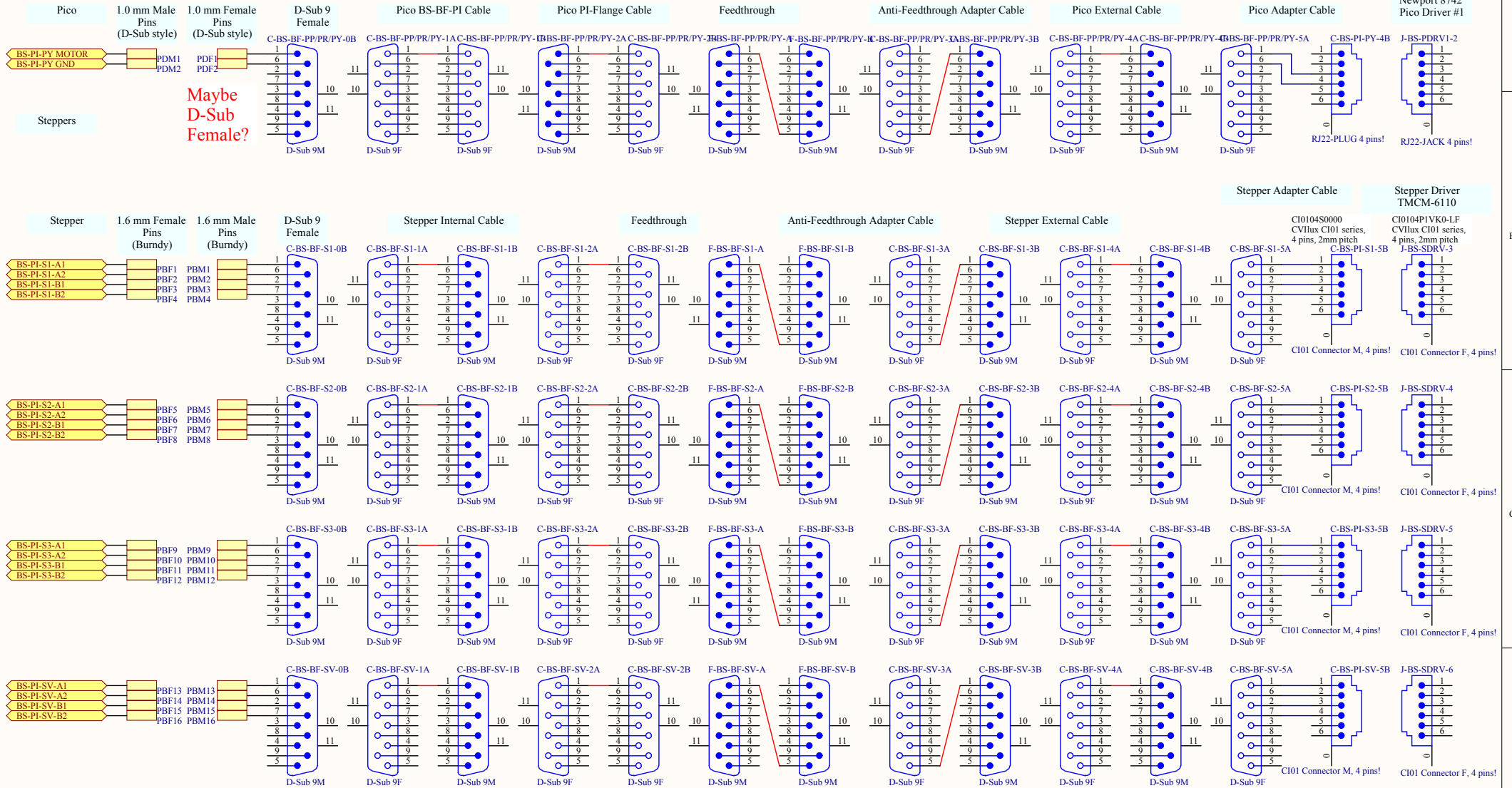


Title			
BS Suspension Cabling - Preisolator LVDT/Actuators			
Size	Number	Revision	
A3	JGW-D1503382	-v2	
Date:	2015/06/08	Sheet of	
File:	Z:\Work\PI LVDTs.SchDoc	Drawn By:	

5 Feedthroughs

Preisolator Steppers/Pico

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.



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-D1503382	-v2
Date:	2015/06/08	Sheet of
File:	Z:\Work\PI Picos&Steppers.SchDoc	Drawn By:

4 Feedthroughs

TM OSEMs



S <-> 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-D1503382	Revision -v2
Date: 2015/06/08	Sheet of	
File: Z:\Work\TM OSEMs\SchDoc	Drawn By:	