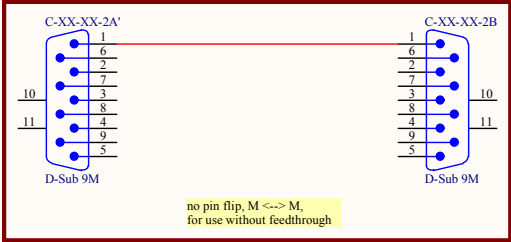


4 Feedthroughs

TM OSEMs



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		
EXA Suspension Cabling - Test Mass OSEMs		
Size	Number	Revision
A3	JGW-D1503617	-v2
Date:	2015/08/08	Sheet 1 of 4
File:	Z:\Work\TM OSEMs\SchDoc	Drawn By:

6 Feedthroughs

IM OSEMs

OSEM

IM OSEM to BF Cable JGW-D1503901 Sheet 02

TR to Flange Signal Cable JGW-D1503901 Sheet 19

Feedthrough

Anti-Feedthrough Adapter Cable

OSEM External Cable

Sat Amp #2 D1402809

A

A

Glenair GMR7590-9P-1BPN
EXA-IM-H2

Glenair MWD2ML-9SS
C-EXA-IM-H1-1A C-EXA-IM-H1-1B

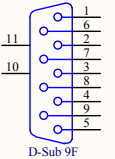
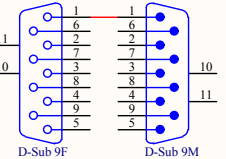
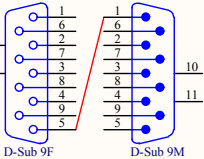
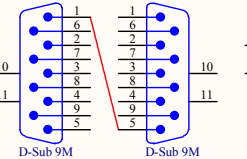
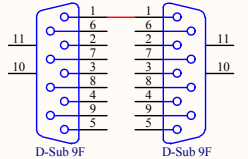
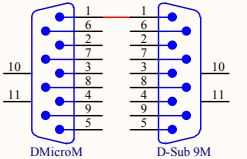
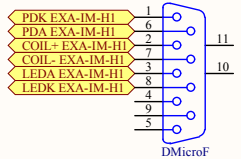
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F-EXA-IM-H1-A F-EXA-IM-H1-B

C-EXA-IM-H1-3A C-EXA-IM-H1-3B

C-EXA-IM-H1-4A C-EXA-IM-H1-4B

J-EXA-SA2-101



B

B

EXA-IM-H3

C-EXA-IM-H2-1A C-EXA-IM-H2-1B

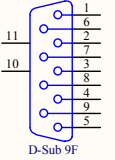
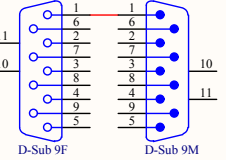
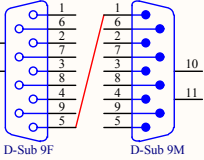
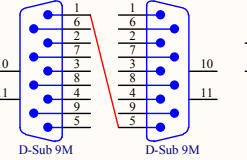
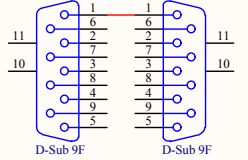
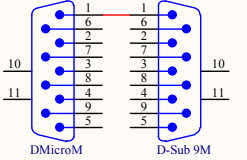
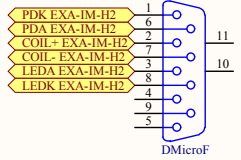
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F-EXA-IM-H2-A F-EXA-IM-H2-B

C-EXA-IM-H2-3A C-EXA-IM-H2-3B

C-EXA-IM-H2-4A C-EXA-IM-H2-4B

J-EXA-SA2-102



C

C

EXA-IM-H4

C-EXA-IM-H3-1A C-EXA-IM-H3-1B

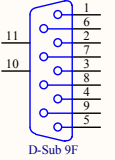
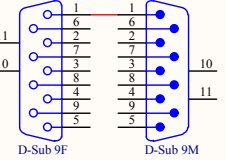
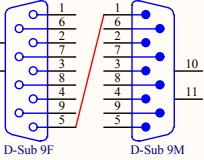
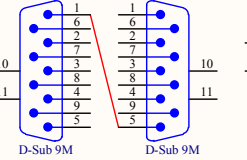
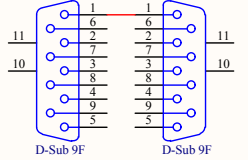
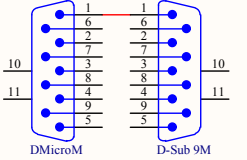
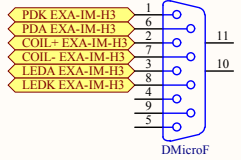
C-EXA-IM-H3-2A C-EXA-IM-H3-2B

F-EXA-IM-H3-A F-EXA-IM-H3-B

C-EXA-IM-H3-3A C-EXA-IM-H3-3B

C-EXA-IM-H3-4A C-EXA-IM-H3-4B

J-EXA-SA2-103



D

D

EXA-IM-V1

C-EXA-IM-V1-1A C-EXA-IM-V1-1B

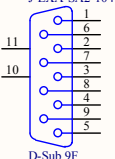
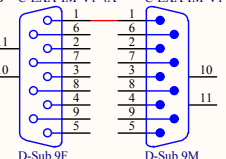
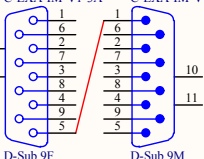
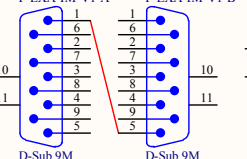
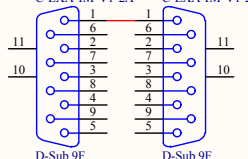
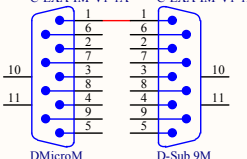
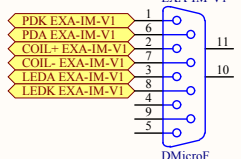
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F-EXA-IM-V1-A F-EXA-IM-V1-B

C-EXA-IM-V1-3A C-EXA-IM-V1-3B

C-EXA-IM-V1-4A C-EXA-IM-V1-4B

J-EXA-SA2-104



Sat Amp #3 D1402809

EXA-IM-V2

C-EXA-IM-V2-1A C-EXA-IM-V2-1B

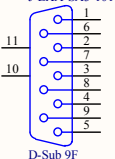
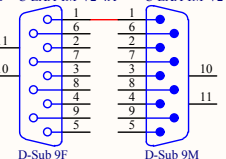
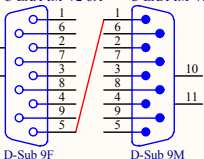
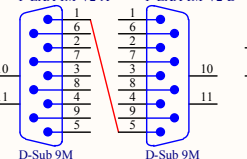
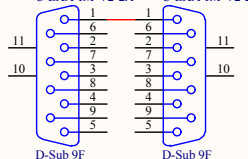
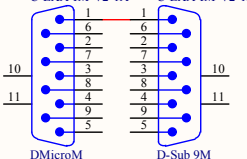
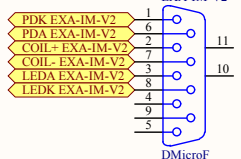
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F-EXA-IM-V2-A F-EXA-IM-V2-B

C-EXA-IM-V2-3A C-EXA-IM-V2-3B

C-EXA-IM-V2-4A C-EXA-IM-V2-4B

J-EXA-SA3-101



EXA-IM-V3

C-EXA-IM-V3-1A C-EXA-IM-V3-1B

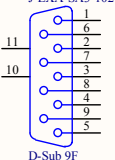
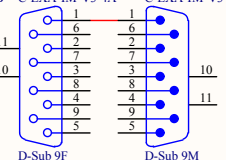
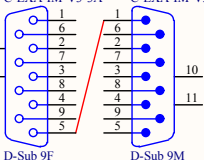
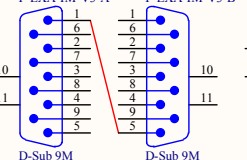
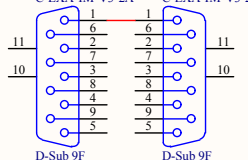
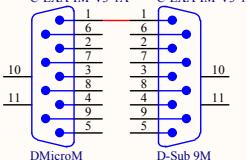
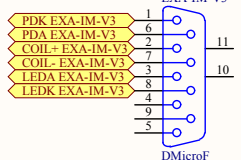
C-EXA-IM-V3-2A C-EXA-IM-V3-2B

F-EXA-IM-V3-A F-EXA-IM-V3-B

C-EXA-IM-V3-3A C-EXA-IM-V3-3B

C-EXA-IM-V3-4A C-EXA-IM-V3-4B

J-EXA-SA3-102

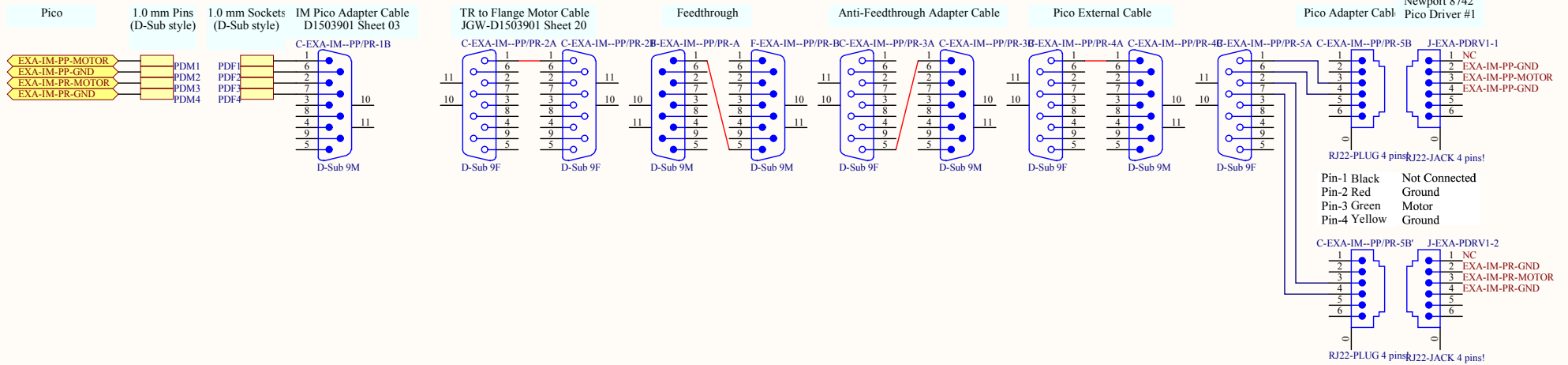


J-EXA-SA3-103 and J-EXA-SA3-104 not used

Title EXA Suspension Cabling - Intermediate Mass OSEMs			
Size A3	Number JGW-D1503617	Revision -v2	
Date: 2015/08/08		Sheet 2of 4	
File: Z:\Work\IM OSEMs.SchDoc		Drawn By:	

1 Feedthrough

IM Picomotors



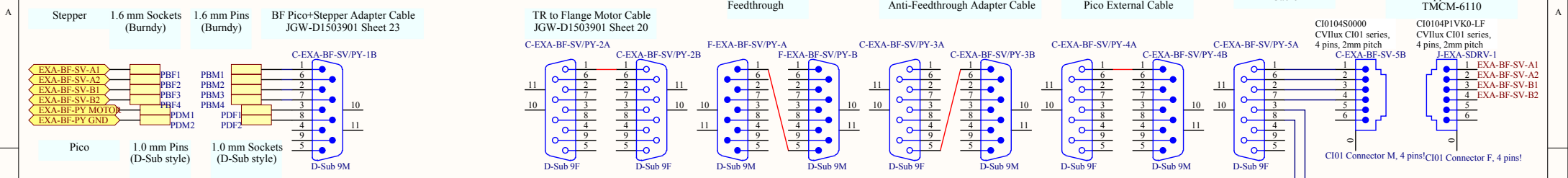
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Size	Number	Revision	
A3	JGW-D1503617	-v2	
Date:	2015/08/08	Sheet 3 of 4	
File:	Z:\Work\IM Picos.SchDoc	Drawn By:	

BF Picomotor/Stepper/LVDT

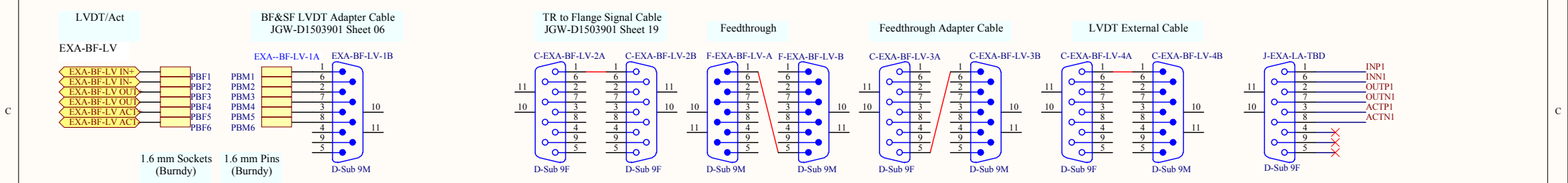
3 Feedthroughs

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	A3	Output	Pin 1 of motor coil A
2	B2	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



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.



Title		
EXA Suspension Cabling - Bottom Filter Pico/Stepper/LVDT		
Size	Number	Revision
A3	JGW-D1503617	-v2
Date:	2015/08/08	Sheet 4 of 4
File:	Z:\Work\BF Picos&Stepper&LVDT	Drawn By: