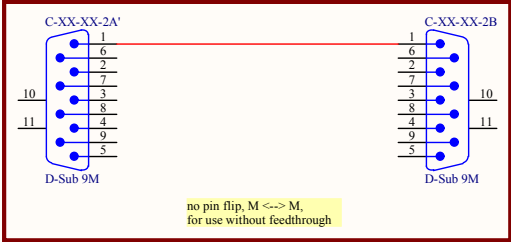


4 Feedthroughs

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	-v1
Date:	2015/08/04	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

BF to Flange Signal Cable JGW-D1503901 Sheet 21

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

C-EXA-IM-H1-2A

C-EXA-IM-H1-2B

F-EXA-IM-H1-A

F-EXA-IM-H1-B

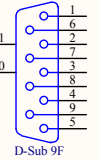
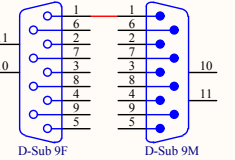
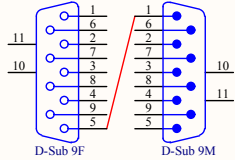
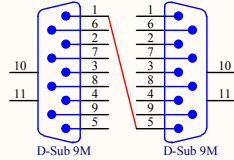
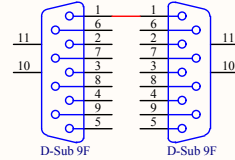
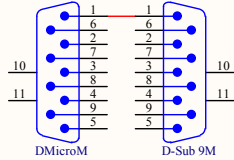
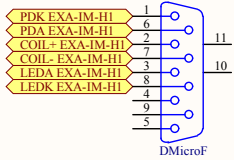
C-EXA-IM-H1-3A

C-EXA-IM-H1-3B

C-EXA-IM-H1-4A

C-EXA-IM-H1-4B

J-EXA-SA2-101



DMicroF

DMicroM

D-Sub 9M

D-Sub 9F

D-Sub 9F

D-Sub 9M

D-Sub 9M

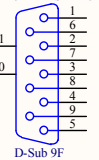
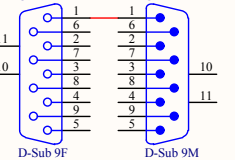
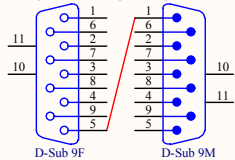
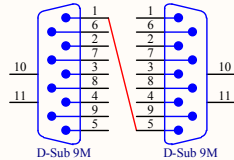
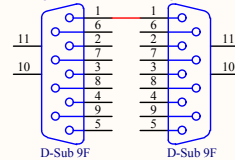
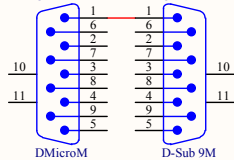
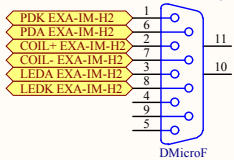
D-Sub 9F

D-Sub 9M

D-Sub 9F

D-Sub 9M

D-Sub 9F



EXA-IM-H3

DMicroF

DMicroM

D-Sub 9M

D-Sub 9M

D-Sub 9M

D-Sub 9M

D-Sub 9F

D-Sub 9M

D-Sub 9F

D-Sub 9M

D-Sub 9F

B

B

EXA-IM-H4

DMicroF

DMicroM

D-Sub 9M

D-Sub 9M

D-Sub 9M

D-Sub 9M

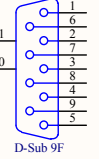
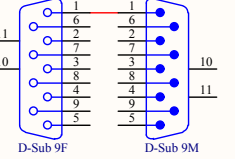
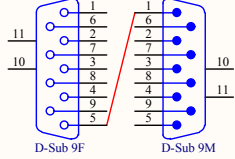
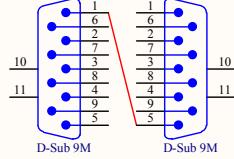
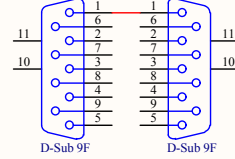
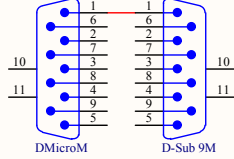
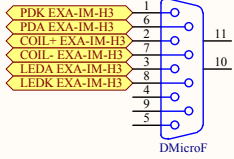
D-Sub 9F

D-Sub 9M

D-Sub 9F

D-Sub 9M

D-Sub 9F



EXA-IM-V1

DMicroF

DMicroM

D-Sub 9M

D-Sub 9M

D-Sub 9M

D-Sub 9M

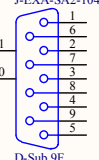
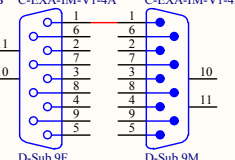
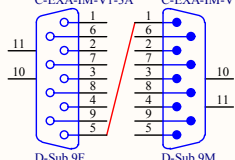
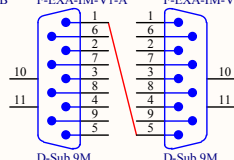
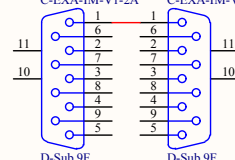
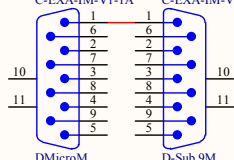
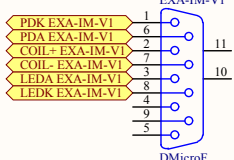
D-Sub 9F

D-Sub 9M

D-Sub 9F

D-Sub 9M

D-Sub 9F



C

C

EXA-IM-V2

DMicroF

DMicroM

D-Sub 9M

D-Sub 9M

D-Sub 9M

D-Sub 9M

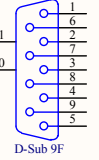
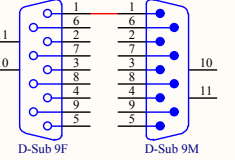
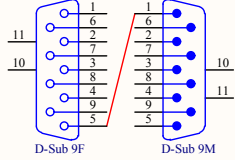
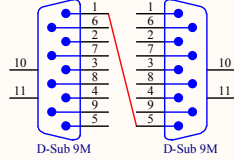
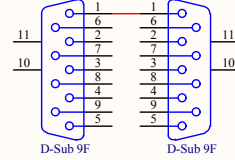
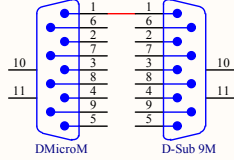
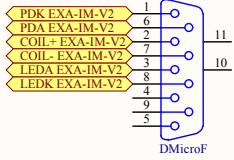
D-Sub 9F

D-Sub 9M

D-Sub 9F

D-Sub 9M

D-Sub 9F



Sat Amp #3 D1402809

EXA-IM-V3

DMicroF

DMicroM

D-Sub 9M

D-Sub 9M

D-Sub 9M

D-Sub 9M

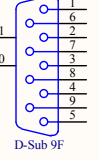
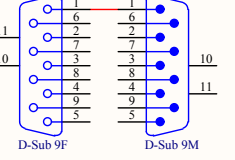
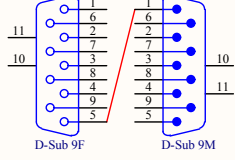
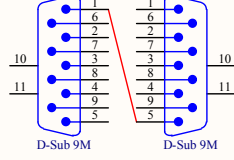
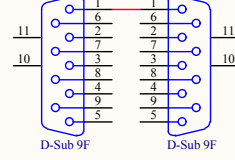
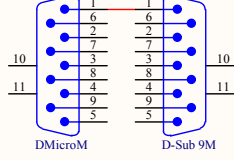
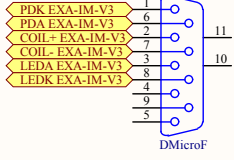
D-Sub 9F

D-Sub 9M

D-Sub 9F

D-Sub 9M

D-Sub 9F



D

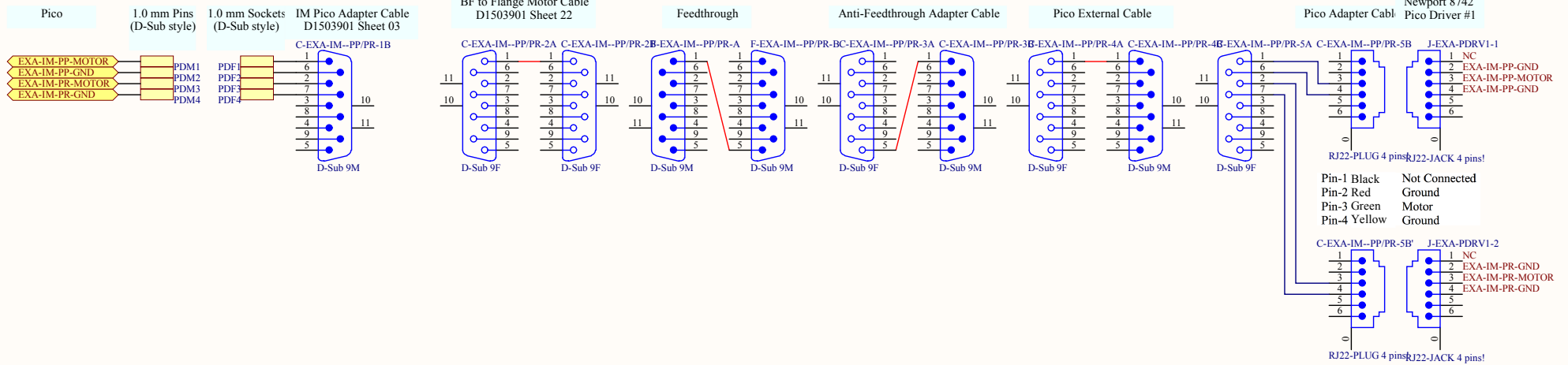
D

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

Title EXA Suspension Cabling - Intermediate Mass OSEMs			
Size A3	Number JGW-D1503617	Revision -v1	
Date: 2015/08/04		Sheet 2of 4	
File: Z:\Work\IM OSEMs.SchDoc		Drawn By:	

1 Feedthrough

IM Picomotors



Title			
EXA Suspension Cabling - Intermediate Mass Picos			
Size	Number	Revision	
A3	JGW-D1503617	-v1	
Date:	2015/08/04	Sheet 3 of 4	
File:	Z:\Work\IM Picos.SchDoc	Drawn By:	

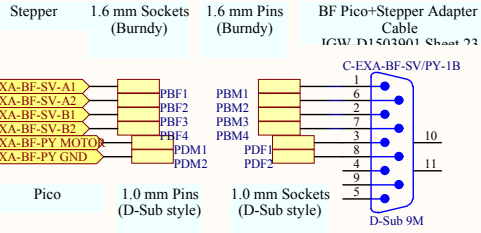
BF Picomotor/Stepper/LVDT

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

3 Feedthroughs

A



BF to Flange Motor Cable
JGW-D1503901 Sheet 22

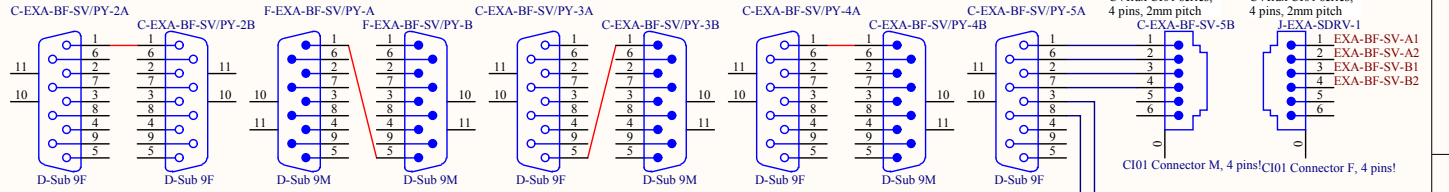
Feedthrough

Anti-Feedthrough Adapter Cable

Pico External Cable

PicoStepper Splitter Cable

Stepper Driver
TMCM-6110



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

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.

B

LVDT/Act

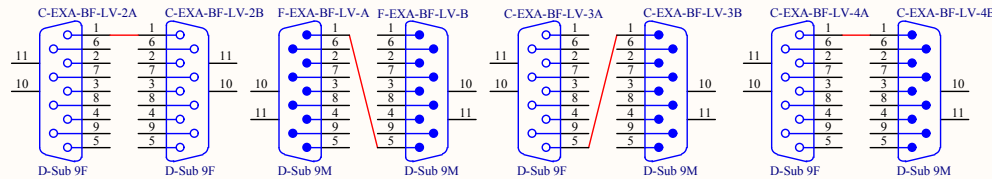
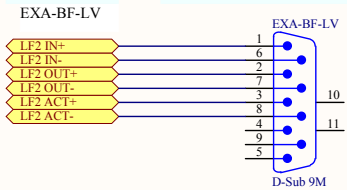
BF&SF LVDT Adapter Cable
JGW-D1503901 Sheet 06

BF to Flange Signal Cable
JGW-D1503901 Sheet 21

Feedthrough

Feedthrough Adapter Cable

LVDT External Cable



C

D

Title			EXA Suspension Cabling - Bottom Filter Pico/Stepper/LVDT
Size	Number	Revision	
A3	JGW-D1503617	-v1	
Date:	2015/08/04	Sheet 4 of 4	
File:	Z:\Work\BF Picos&Stepper&LVDT	Sheet 4 of 4	Drawn By: