D2200341 H1 HAM6 OMC grounding v1

Blue=DCPD signal ground, Light green=shield ground, Dark green=DCPD case.
Red and magenta are connections that aren't supposed to be there.

2B1
SMA-SMA
2B2
SMA-SMA
D4 flange

DB25-DB25
pin13
pin1
F1
D2000592 DCPD preamp
(isolated from ISI by
a PEEK spacer)
DB9-DB9
D2100599 DB9-2xMM
Confirmed built to spec
pin6
pin3
pin9
J2
J3
D1300371, D1300372
DCPD-MM assy
Connection found only in the first assy,
alog 65081
OMC DCPD case

DB25-DB25
pin13
pin1
F2
DB25-MM, D1300376
alog 47149 shows that
strands of the shield are
touching the MM shell.
MM-2xPZT assy.
4 pins of MM are used for 2 twisted pairs, no shield.
Each twisted pair drives one PZT.
No shell connection according to D1300589.

D1300374, D1300375
QPD-MM assy 1 and 2.
No pin is connected to the shield nor the shell.
Shield is supposed to be floating. In reality,
alog 47149 means that the shield and MM
shell might be connected though this is not
a problem for DCPD path.

DB25-DB25
pin13
pin1
F3
DB25-2xMM, D1300373
alog 47149 seems to
suggest that one or both of
the MM shells might be
connected to the shield, just
like PZT cable.

D6 flange

See D1002877 for flange layout.

Metal OMC Structure Bracket

Cable brackets at the
top of OMCS cage

OMC breadboard