

Signal Feedthrough Progress Report

ATLAS LAr Week
13 November 98

- Pin Carriers
- Prototype Progress



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Pin Carrier Order for Prototypes at Victoria

• Glasseal

- 15 out of 20 received
- all leak tested at room temperature
 - one found with a 10^{-9} mbar l/s leak
 - dented, probably during transport
- 6 (other) were temperature cycled times
 - two were found with level 10^{-9} mbar l/s leak
 - stable

• Pacific Coast Technologies

- 10 out of 10 received
- all leak tested at room temperature
 - one found with a “slow” leak of 10^{-9} mbar l/s
- 6 (other) were temperature cycled times
 - no leaks

• Reminder on Costs

• Glasseal

- 448 pins: US\$ 1455 each for 20 + US\$ 40 for Au
- 512 pins: US\$ 1621 each for 20 + US\$ 47 for Au
- 448 pins: US\$ 593 each for 500
- 512 pins: US\$ 659 each for 500

• PCT

- 448 pins: US\$ 3872 each for 10 + US\$ 1400 for Au
- 512 pins: US\$ 3961 each for 10 + US\$ 1400 for Au
- 448 pins: US\$ 1997 each for 500 + US\$ 200 for Au
- 512 pins: US\$ 2027 each for 500 + US\$ 200 for Au

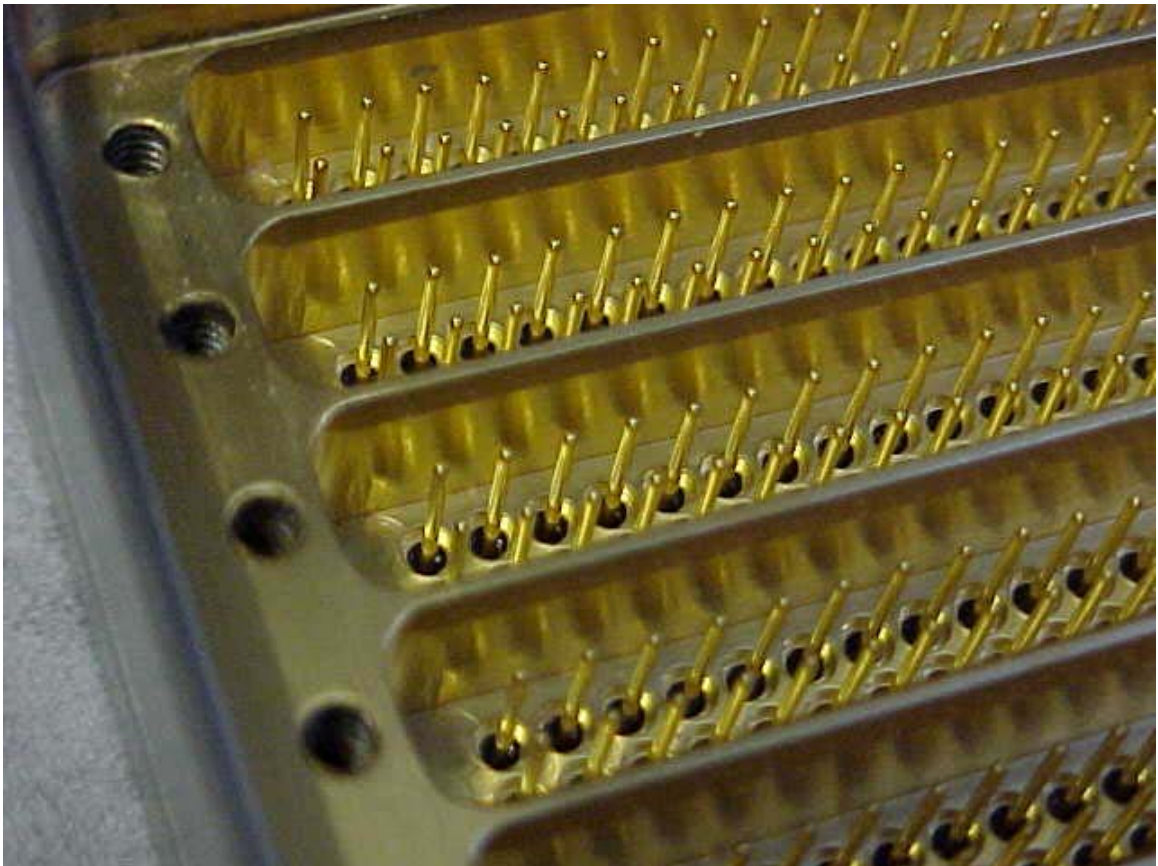
Mechanical Parts Order for Prototypes at Victoria

- Flanges
 - 3 ambient and 3 cold flanges received
- Cold boxes (Funnels)
 - tubes received
 - cold boxes manufacture proceeding
- Bellows
 - 3 expected any day now
- Bolt rings
 - manufactured in house

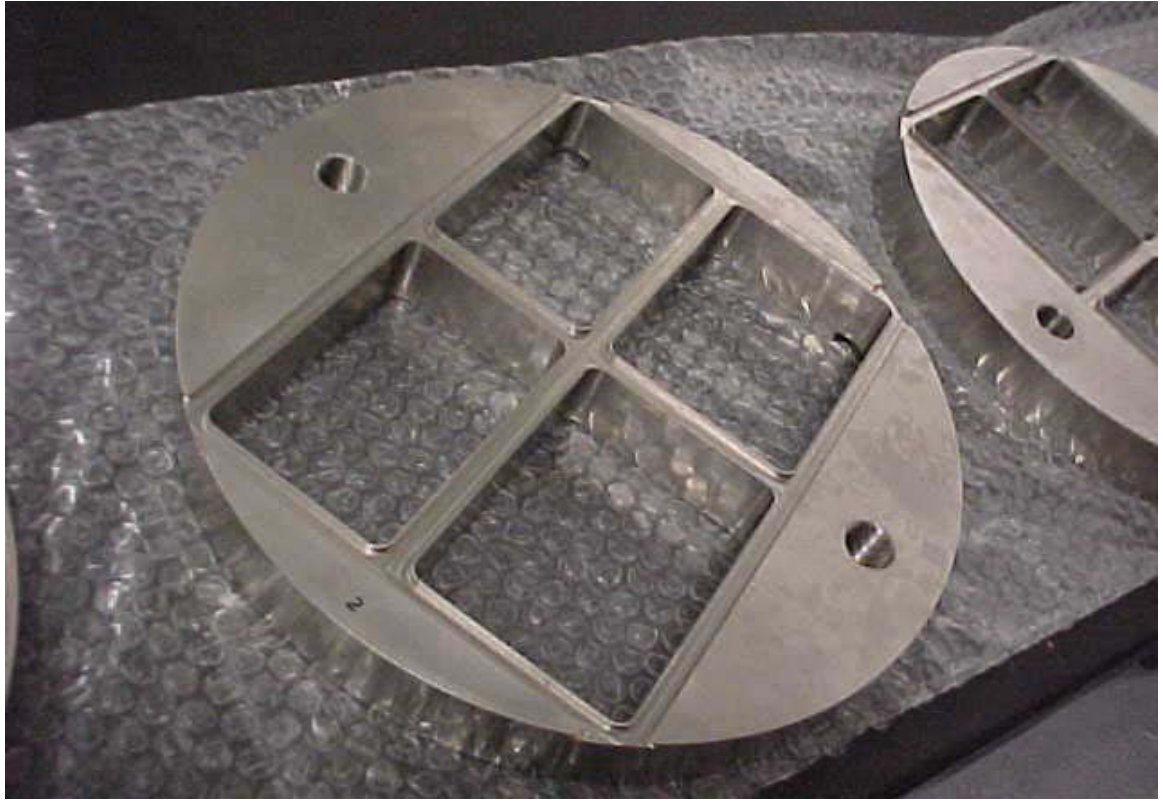
Endcap Signal Feedthrough Project



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Canadian Responsibilities

- Design
- Fabrication
 - Signal Pigtails purchased from Orsay
 - “Convention” being written
 - Low Voltage Pigtails purchased from MPI
- Commissioning
- Transport
- Assistance during installation:
 - Cover the cost of an orbital cutter
 - Assistance during welding on the cryostat
 - Assistance for leak testing during installation
 - DC Electrical tests during the installation