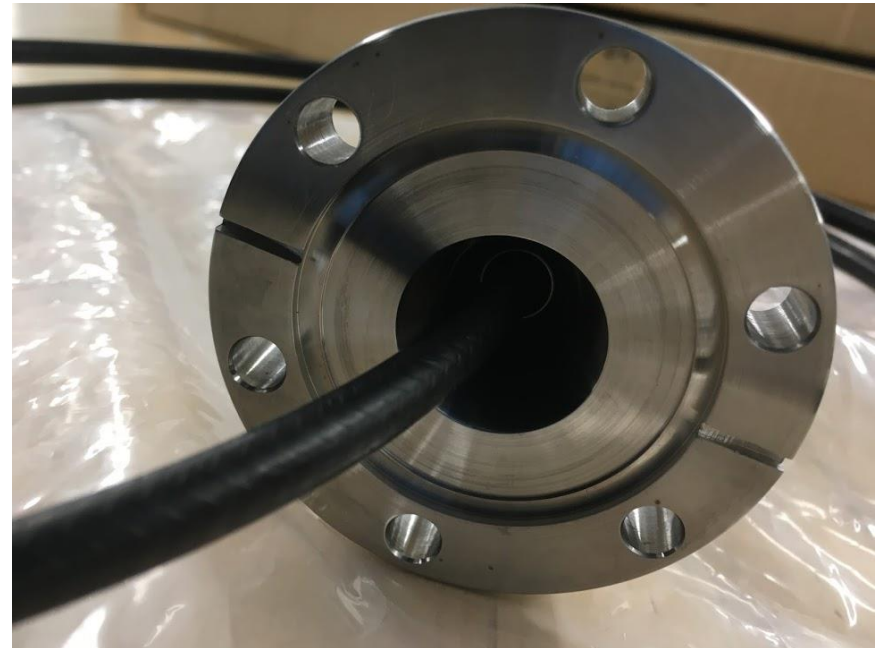
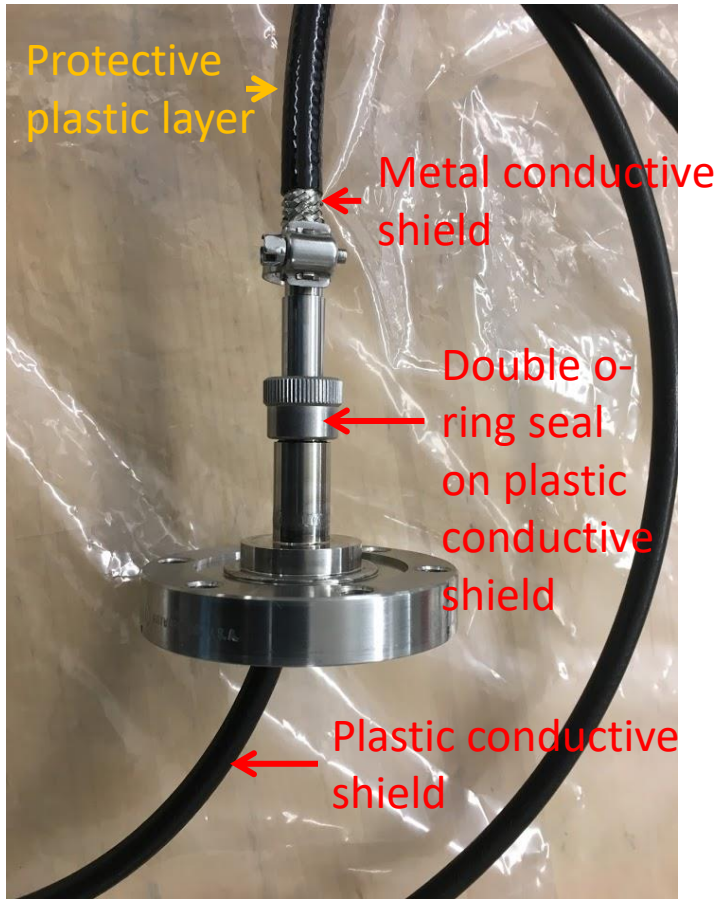


Dielectric Sciences Cable FT

Shaun Alsum

Cable design - feedthrough



Cable design - termination



Screw penetrates part-way into heat shrink

Termination connecting inner conductor to resistive heat shrink

Resistive heat shrink

Custom spring connecting heat shrink to grounded plastic shield.



Testing

- Tested in Xenon Gas
- At 3.2 bara, broke down at 22 kV twice, then at 15 kV.
- At 2 bara broke down at ~15 kV
- At 1 bara, broke down at ~11 kV
- Always breaks down between spring and metal termination

