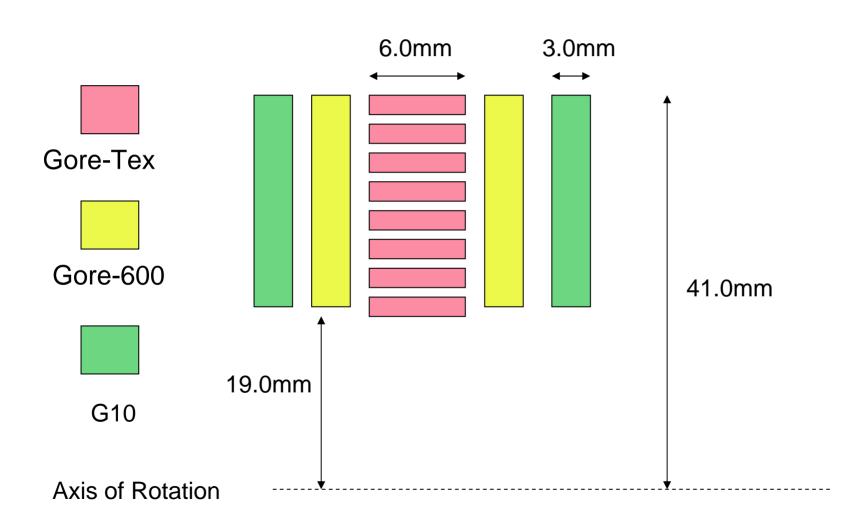
#### Test of Magnet Lead Packing Scheme, H. Kirk (23 May 2007)



# Installing the Gore "Rope"



### Installing on the Solenoid



May 23, 2007

## Cryo Testing Results

- 2.5 x 10<sup>-5</sup> mbar I /s Ambient Background
- No observed leak at 10bar Room Temp
- Initial cooldown, flush: substantial leak
- Further tighten by closing gap 1.3mm
- 1.3 x 10<sup>-3</sup> mbar I /s leak rate
- Shock cooled in LN<sub>2</sub> bath
- 3<sup>rd</sup> cycle cooldown
- 0.8 x 10<sup>-3</sup> mbar I /s leak rate
- → 12 mg/day

# Cryo Testing Results II

- Gap closed to 10mm
- 3.8 x 10<sup>-5</sup> mbar I /s Ambient Background
- Leak rate 10bar Room Temp 3.7 x 10<sup>-4</sup> mbar I /s
- Leak rate 10bar 80<sup>0</sup>K -Substantial
- Further tighten by closing gap to 9.5mm 14Nt-m
- 4 x 10<sup>-5</sup> mbar I /s Ambient Background
- RT 10bar He --2.1 x 10<sup>-4</sup> mbar I /s leak rate
- 80°K 10bar He 1.9 x 10<sup>-2</sup> mbar l/s leak rate
- Further tightening –gap at 9.4mm 16 Nt-m
- Awaiting re-test