Gore-Tex
Gore-600
G10

Axis of Rotation

6.0mm
3.0mm

19.0mm
41.0mm

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^{-5} mbar l /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^{-3} mbar l /s leak rate
• Shock cooled in LN_{2} bath
• 3^{rd} cycle cooldown
• 0.8 x 10^{-3} mbar l /s leak rate ➔ 12 mg/day
Cryo Testing Results II

- Gap closed to 10mm
- $3.8 \times 10^{-5}$ mbar l/s Ambient Background
- Leak rate 10bar Room Temp $3.7 \times 10^{-4}$ mbar l/s
- Leak rate 10bar $80^0\text{K}$ -Substantial
- Further tighten by closing gap to 9.5mm 14Nt-m
- $4 \times 10^{-5}$ mbar l/s Ambient Background
- RT 10bar He --2.1 $\times 10^{-4}$ mbar l/s leak rate
- $80^0\text{K}$ 10bar He – 1.9 $\times 10^{-2}$ mbar l/s leak rate
- Further tightening –gap at 9.4mm 16 Nt-m
- Awaiting re-test