

Sidecab Dewar Wire length Definitions

Item	Description	Person	Date
01	<p>SIS Wiring (4 x 5 wire). Re-used MDM connectors.</p> <p>Cable length SIS 230R: 3.0 inches (3 mil Manganin)</p> <p>Cable length SIS 230L: 4 5/8 inches (3 mil Manganin or 5 mil Manganin)</p> <p>Cable length SIS 460L: 6.0 inches (3 mil Manganin or 5 mil Manganin)</p> <p>Cable length SIS 460R: 7 3/8 inches (3 mil Manganin or 5 mil Manganin)</p> <p>See: Coldstage-SISbias_pigtail.pdf</p>	JG/FR	15 June 2010
02	<p>Magnets: 5 mil phosphor bronze (see Sidecab_Internal_Mag_Cable.pdf)</p> <p>230 Magnet Left: Cable length 4 5/8 inches</p> <p>230 Magnet Right: Cable length 4 5/8 inches</p> <p>460 Magnet Left: Cable length 4 3/8 inches</p> <p>460 Magnet Right: Cable length 4 3/8 inches</p> <p>All wires go to a single MDM-15 connector (Sidecab_Internal_Mag_Cable.pdf)</p> <p>The current setup has two 5 mil phosphor bronze wires/magnet (supply/return), e.g. a total of 8 wires. The bundles need to be twisted in the end.</p>	DW/JG/FR	15 June 2010
03	<p>Temperature sensor cable length (Manganin 3 or 5 mil), twisted.</p> <p>See: J203_temperature_15Kbulkhead-MDM15pin_socket_pigtail.pdf</p> <p>T1: cable length (4 wires) 3.5" (to LHe stage)</p> <p>T1: cable length (4 wires) 4.5" (to Mixer block)</p> <p>T1: cable length (4 wires) 7" (to 15K LNA)</p>	JG/FR/DW	15 June 2010
04	<p>LNA & MMIC (see Coldstage-LNAbias_pigtail.pdf)</p> <p>Wiring diagram (4 x 4wire, chassis return?) needs to be provided. Microtech 4 pin and 2mm connector (AI-01). Stranded 32 gauge Cu or Phosphor bronze 15K to 15K, 5 mil dia. Needs to be somewhat flexible cable (same as current quad temp sensor wiring?)</p> <p>Cable length: MIC-1: 3.5 inches</p> <p>Cable length: LNA-1: 3.5 inches</p> <p>Cable length: MIC- 2: 6.25 inches</p> <p>Cable length: LNA-2: 6.25 inches</p>	JK	18 June 2010