A 300 T/M Nb₃Sn Quadrupole for the LHC **Insertions**, <u>G. AMBROSIO</u>, G. BELLOMO L. ROSSI, INFN-LASA and Physics Dept. of the University of Milan - The NbTi quadrupoles for the LHC insertions have a design gradient of 250 T/m at 1.8 K with a 70 mm aperture [1]. In the frame of the **CERN-INFN** collaboration for the LHC superconducting magnets we are exploring the use of the Nb_3Sn technology for second generation quadrupoles for the low b insertions of the LHC. A conceptual design of a Nb₃Sn quadrupole operating at 1.8 K with 300 T/m gradient and 70 mm aperture is Cable performance, magnetic design, presented. winding technique, mechanical structure and magnet protection are discussed in detail.