

In the last few years, the DC performance of a large number of sub- and full-size NbTi as well as Nb₃Sn cable-in-conduit (CIC) conductors was tested in the SULTAN facility of CRPP. The “potential” DC performance of various CIC conductors was estimated from the measured strand data. In the presentation, the DC performance of CIC conductors, measured in SULTAN, is compared with this “potential” DC performance. The DC performance of NbTi sub- and full size CIC conductors has been found to be in good agreement with the “potential” conductor performance. For Nb₃Sn CIC conductors, the situation is more complex because of the strain sensitivity of the critical current. Evidence for strand damage, caused by the large Lorentz forces, has been found in Nb₃Sn sub-size conductors. Finally, a summary of the results of the tests of the ITER-TF Nb₃Sn conductors is provided. Again the measured DC performance is compared to the "potential" performance.