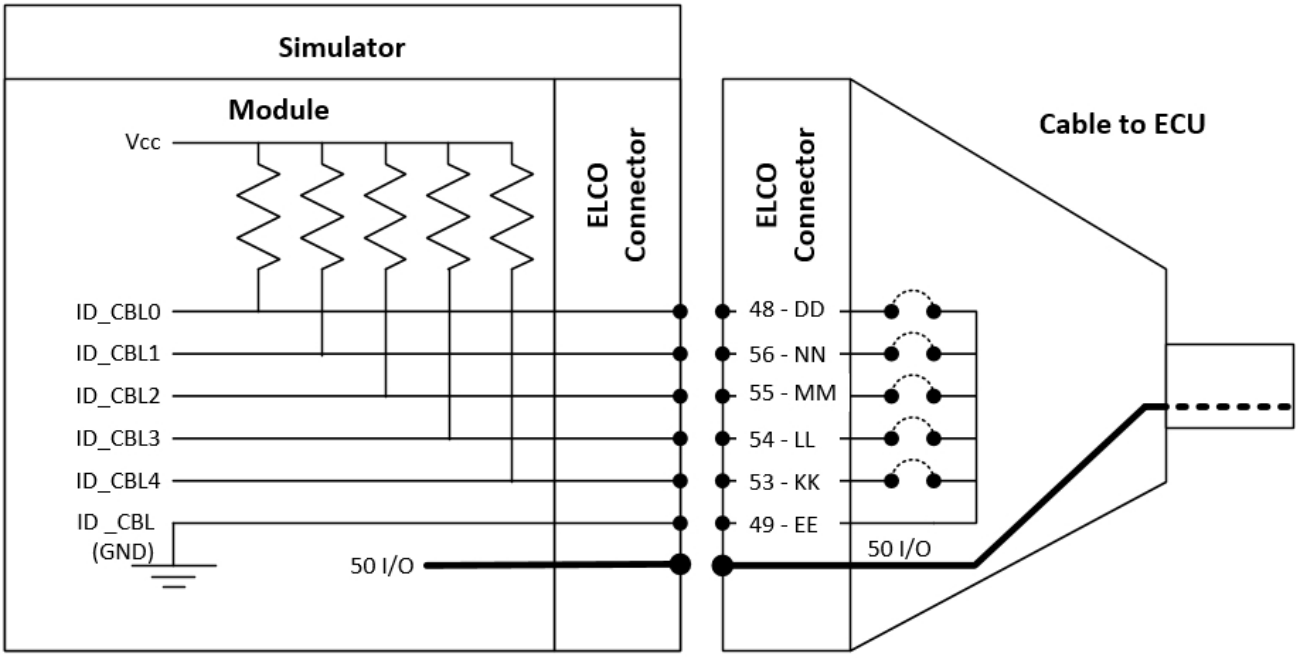
Cable Identification

At the ELCO connector, six input signals are used by the Real Time Unit to identify which harness connector is attached to the module. The five signals ID_CBL0 :4 are pulled up to 5V through a 100K Ohms. The sixth signal is GND.



When the harness connector is plugged to the ELCO-56 connector, it grounds the appropriate signals. The FPGA interprets the signal values in a 6-bit Cable ID value and relays this value to the simulation model. The value is also displayed on the run-time panel of the module.

User interface information :

- the value of the Cable ID detected is displayed in the right pane of the run-time panel of the module
- *(under development) A checkbox in the configuration panel of each module allows to enforce Cable ID validation towards an expected value. If the Cable ID detected does not match the expected Cable ID, the module I/Os are disabled. If an error is detected, it can be acknowledged from the run-time panel.*