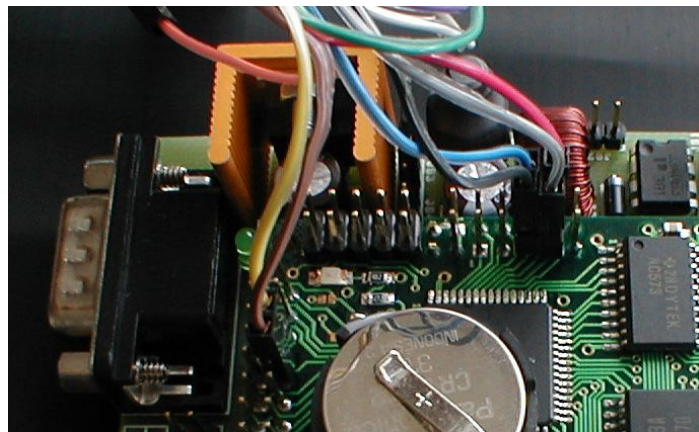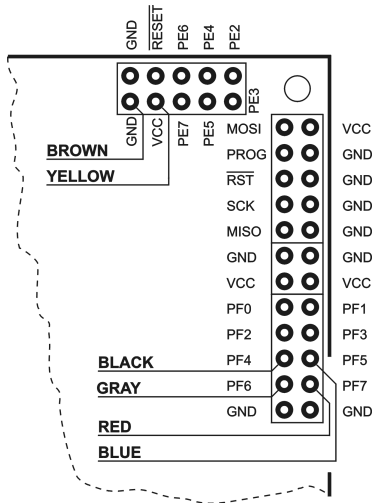## Connecting the AVR JTAG MICRO ICE to the Little E3D2 board

The JTAG interface on ATmega128 microcontroller uses totally four leads on PORTF. They are PORTF4 - PORTF7. Because the Little E3D2 board doesn't have dedicated JTAG port, the AVR JTAG MICRO ICE (marked as mICE in the following text) is connected to the Little E3D2 by special cable. The connection consist of totally 6 wires, four of them are data wires while two remaining are used for powering the mICE. Wires are connected as follows:

BLACK	PF4
BLUE	PF5
GREY	PF6
RED	PF7
BROWN	GND
YELLOW	VCC

Note: Please be very careful when connecting the mICE to the Little E3D2 board as wrong connection can damage the mICE and/or the Little E3D2. Always make sure that power is off and always make sure that the BROWN wire is connected to ground and the YELLOW wire is connected to VCC (and not in opposite) when connecting these two devices together.

AVR JTAG MICRO ICE CONNECTOR PIN DESCRIPTION

TCK	1	2	GND
TDO	3	4	Vtref
TMS	5	6	
Vsup	7	8	
TDI	9	10	GND

AVR JTAG MICRO ICE LED DIODES

GREEN = Power
RED = Activity