

An electronic detonator (1) designed to be connected by means of two conducting wires (a, b) to an associated control system (20), the conducting wires (a, b) comprising a charged plastic material and exhibiting a first resistance. The electronic detonator (1) comprises supervision means (11) and resistive means (12) disposed between the two conducting wires (a, b), the resistive means (12) exhibiting a second resistance, the second value of resistance being determined by the supervision means (11) in such a way that the sum of the values of the first resistance and of the second resistance is a predetermined value.