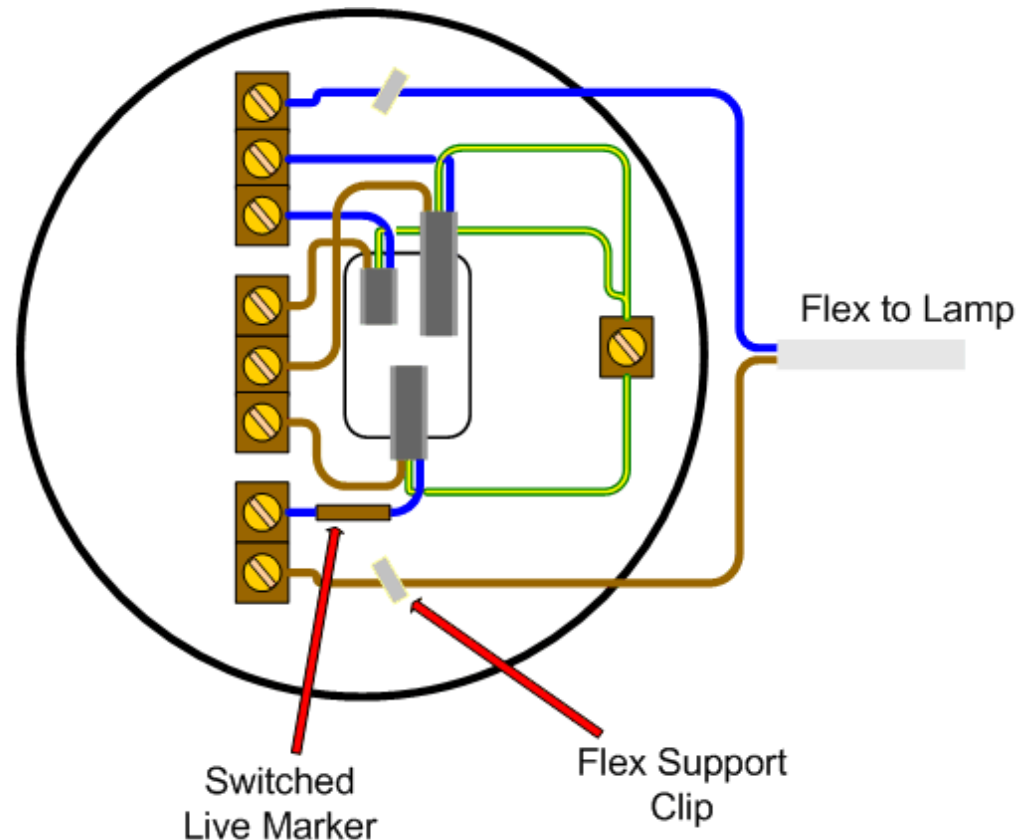


Loop-in Wiring

The power feed **blue** cable may go to either the switch or the bulbholder. If it goes to the bulbholder, this is called loop-in wiring, and the ceiling rose then uses four sets of connections instead of 3, the extra one being a switched live.

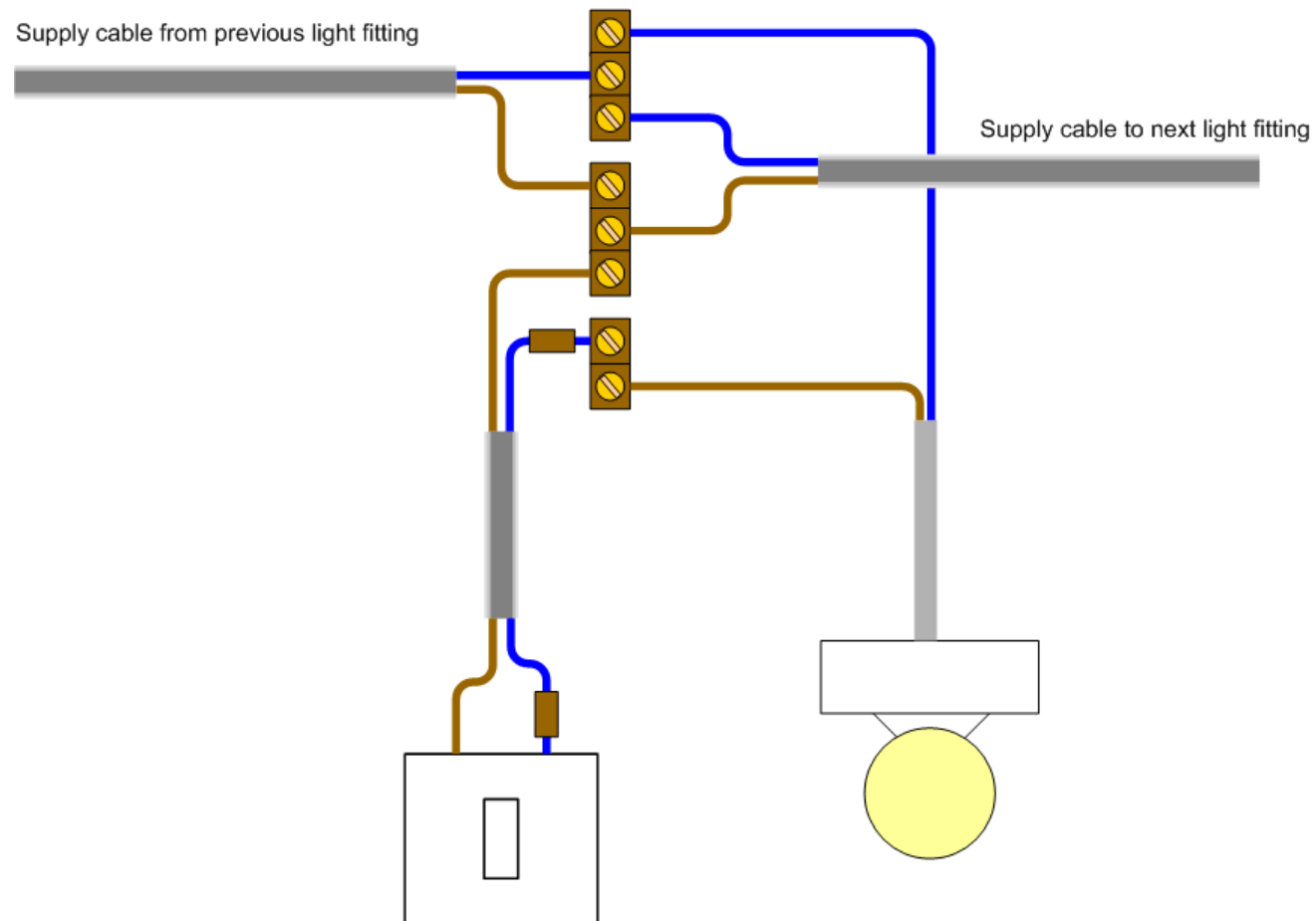
With loop-in wiring, the **blue** cable from the ceiling rose to the switch has 3 conductors, namely **earth**, unswitched live and switched live. **Regs** conformance requires that brown sleeving be fitted over the neutral coloured conductor at each end of the switch **blue** cable since it is being used as a live.

A typical view inside a ceiling rose:



Which is a little easier to understand in schematic form:

Simplified "Loop In" wiring (earth omitted for clarity)



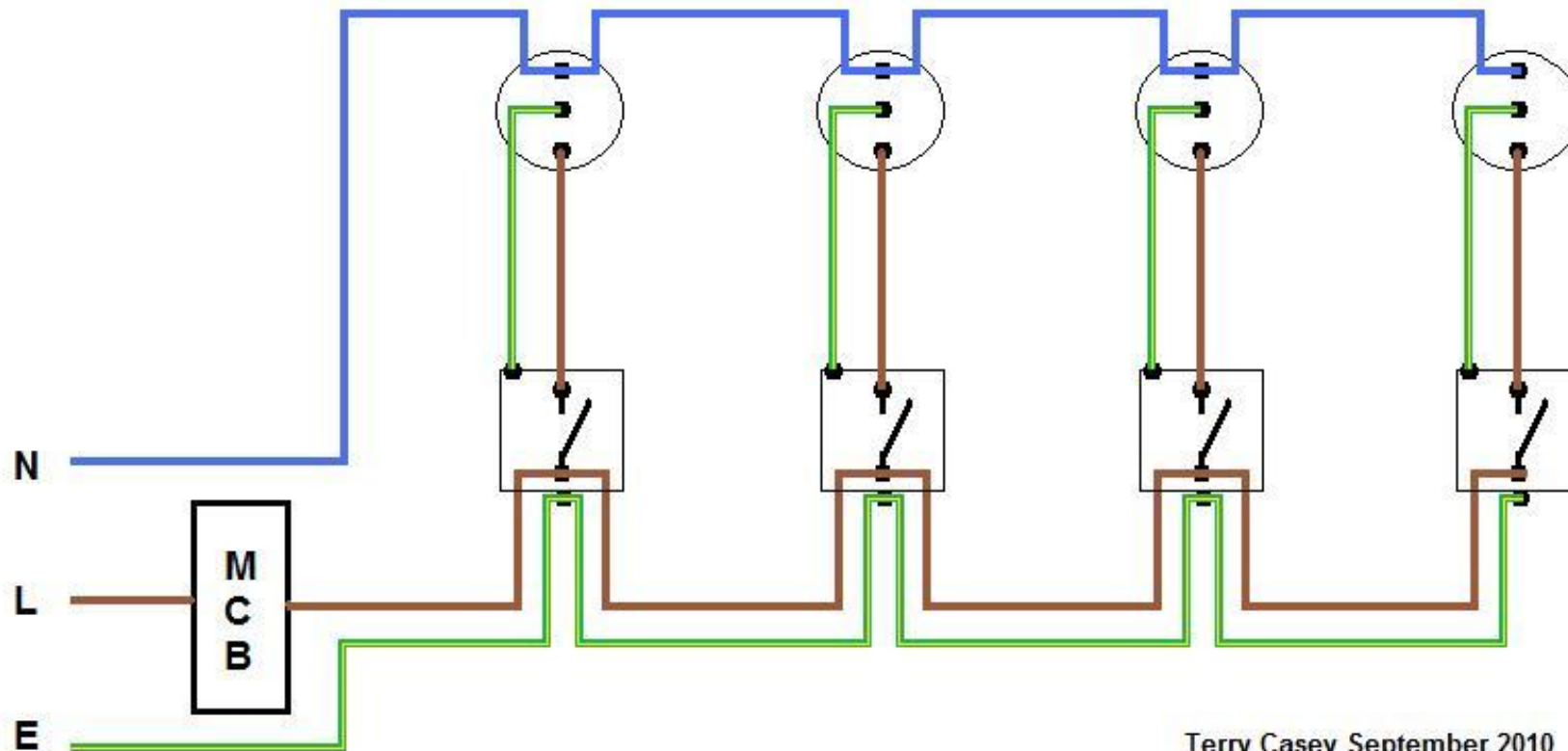
Single & Earth

A less commonly met system of wiring lighting circuits.

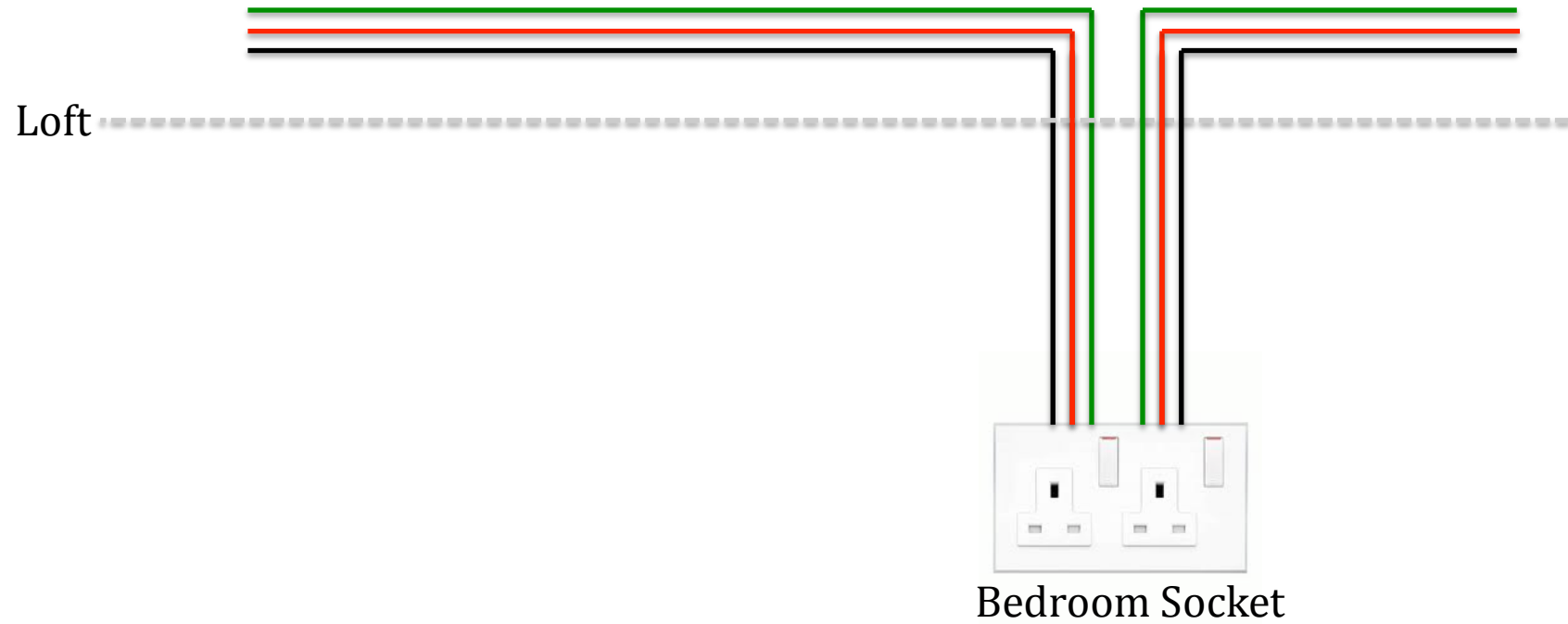
The permanent lives and switched lives of the circuit use the single core and earth cable (type 6241Y).

This run starts from the MCB and loops between the lightswitches to provide a permanent live and earth to the lightswitches. Another length of 6241Y is then used from the lightswitch to the light fitting to provide a switched live and earth at the light fitting.

The neutral cable is a double sheathed cable (6181Y with a blue inner sheath) that runs from the CU neutral busbar and from light fitting to light fitting (there will only be one neutral at the end of the circuit).



Existing Wiring



Modified Wiring

