

Open Joints/Junction Boxes

Open joints refer to a junction of two or more wires that is not contained within a device or junction box. Open joints may cause a fire should something happen at the joint such as a loose connection, this can cause arcing which will result in a buildup of heat.

Electrical joints need to be made within a junction box. The primary function of a junction box is to contain an explosion should a wire come loose and/or the insulation burns off and the exposed wire touches the box. Its other function is to short the circuit (as long as the box is bonded properly) if a joint should come undone.

Should an explosion occur and the box is not covered, the sparks can ignite flammable substances nearby. With a cover properly installed, the explosion is contained within the box.



A junction box helps branch out a circuit to multiple devices. Without the junction box, it would be necessary to run individual wires for each fixture back to the electrical panel.

All images taken by MCC Electric



Open joints that were hidden inside a wall



Open joints in an attic space

If you have any questions, you can contact me at <http://www.mccelectric.ca/contact-mcc> or (506) 651-5168