

ELECTRICAL BULLETIN

2018-02

From: David MacLeod, C.E.I., P.Eng.
Provincial Chief Electrical Inspector

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Date: August 15,2018

Subject: **Correction to 2018 Canadian Electrical Code (CEC)**

During the rewrite of section 10 of the 2015 version of the CEC there was an oversight to include the requirements for “Installation of equipment bonding conductors” rule 10-808 into the new code. As this is an important safety requirement this rule needs to be included as part of the 2018 CEC effective immediately.

The following is the rewrite of the CEC 2015 rule 10-808 based on the new wording and rules used in the 2018 CEC and has been assigned a temporary rule number 10-616.

10-616 Installation of bonding conductors

- 1) The bonding conductor shall be permitted to be spliced or tapped ensuring sound electrical continuity and such splices or taps shall be made within a box,
- 2) Where more than one bonding conductor enters a box, all such conductors shall be in good electrical contact with each other by
 - a) securing all bonding conductors under bonding screws; or
 - b) connecting them together with a solderless connector and connecting one conductor only to the box by a bonding screw or a bonding device.
- 3) Where a bonding conductor is run in the same raceway with other conductors of the circuit to which it is connected, it shall be insulated, except that an uninsulated protective bond conductor shall be permitted to be used where the length of the raceway does not exceed 15 m and does not contain more than the equivalent of two quarter bends.
- 4) Where circuit conductors are installed in a raceway, a separate bonding conductor, when required, shall be installed in the same raceway as the circuit conductors.
- 5) Where a separate bonding conductor is run with single-conductor cables, it shall follow the same route as the cables.

The above requirements are effective immediately and are to be included as part of the 2018 CEC adoption and any subsequent design or installation.

Designers and installers should review other applicable rules when applying the above requirements of 10-616 such as, but not limited to;

- a) 2-200 (mechanical damage as applied to cables)
- b) 10-612(6) (disconnection or removal of device)

Consult your local electrical inspector for direction or clarification of any requirements indicated above.

The above bulletin is subject to change or revision at any time by the Provincial Chief Electrical Inspector.

Any issues or concerns regarding this bulletin may be forwarded to the:
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