

# ELECTRICAL INSPECTION BULLETIN

**Bulletin No.** 26-4-0

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## Arc Fault Protection

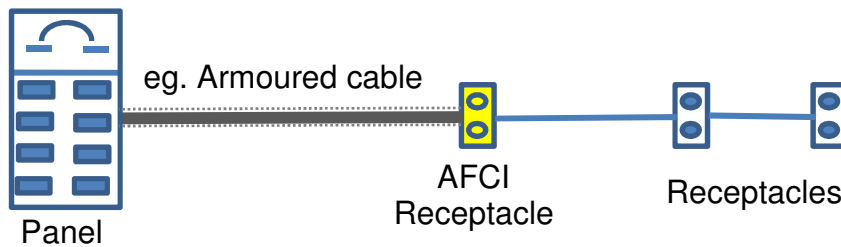
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Clarification to CEC rule 26-722(f) Arc Fault Protection of branch circuits that supply receptacles installed in sleeping facilities of a dwelling unit.

### Directive

*The entire branch circuit is not required to be provided with arc fault protection where*

- (i) an outlet branch circuit type arc-fault circuit interrupter is installed at the first outlet on the branch circuit; and*
- (ii) the wiring method for the portion of the branch circuit between the branch-circuit overcurrent device and the first outlet is comprised of metal raceway, armoured cable, or non-metallic conduit or tubing.*



### Rational

The intent of these new subrules is to provide both series (also called low level) and parallel (also called high level) arc fault protection downstream from the panelboard through the entire branch circuit wiring including the cord sets and power-supply cords connected to the outlets.

Considering the fact that the Outlet branch circuit type arc fault circuit interrupter does not provide upstream parallel arc fault protection, mechanical protection is required for the portion of the branch circuit between the branch circuit overcurrent device and the first outlet. The mechanical protection minimizes the risk of direct contact and damage to the cable that could cause ignition due to an arc, and spread of the flame should ignition occur.

Requirements for Arc Fault Protection					
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