

**TITLE:** ELECTRICAL — CONDUCTOR

**VERSION:** V2.2

**DATE PUBLISHED:** 06/23/22

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**DEFINITION:** An object or type of material that carries electrical current.

**PURPOSE:** To safely allow for the flow of electrical current through the service point, service equipment, or branch wiring.

**COMMON COMPONENTS:** Wire; Electrical conductor; Busbar; Terminal; Wire connection; Cables; Junction box (including switch box, light fixture box, smoke detector box, and receptacle box)

**LOCATION:**

<input checked="" type="checkbox"/>	Unit	Throughout the Unit.
<input checked="" type="checkbox"/>	Inside	Throughout the Inside.
<input checked="" type="checkbox"/>	Outside	Throughout the Outside.

**MORE INFORMATION:** Low voltage wiring (e.g., telephone, doorbell, thermostat) is excluded from this standard.

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**DEFICIENCY 1:** Exposed electrical conductor.

**LOCATION:**  Unit  Inside  Outside

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**DEFICIENCY I — UNIT: EXPOSED ELECTRICAL CONDUCTOR.**

**DEFICIENCY CRITERIA:** Electrical conductor is not enclosed or properly insulated (e.g., damaged sheathing, open port, missing knockout, missing outlet or switch cover, missing breaker or fuse, or missing lightbulb).  
 OR  
 An opening or gap is present and measures greater than ¼ inch.

**HEALTH AND SAFETY DETERMINATION:** Life-Threatening      The Life-Threatening category includes deficiencies that, if evident in the home or on the property, present a high risk of death to resident.

**CORRECTION TIMEFRAME:** 24 hours

**HCV PASS / FAIL:** Fail

**HCV CORRECTION TIMEFRAME:** 24 hours

**INSPECTION PROCESS:**

**OBSERVATION:**

- Visually inspect all electrical conductors and determine if any are not enclosed or properly insulated (e.g., damaged sheathing, open port, missing knockout, missing outlet or switch cover, missing breaker or fuse, or missing lightbulb).
- Visually inspect for any opening or gap.

**REQUEST FOR HELP:** - None

**ACTION:** - If an opening or gap is present, measure the space to determine the size of the opening or gap.

**MORE INFORMATION:**

- Low voltage wiring (e.g., telephone, doorbell, thermostat) should not be evaluated under this standard.
- If a device is designed by the manufacturer to intentionally have a gap or space to support ventilation, then it should not be evaluated under this standard.

- Example conductors to be evaluated under this deficiency include but are not limited to:
  - Knockouts
  - Device cover plates that are missing (i.e., evidence of prior installation, but now are not present or are incomplete)
  - Device cover plates that are damaged (i.e., visibly defective; impacts functionality)
  - Lighting fixtures
  - Hardwire smoke alarms
  - Visible wire nuts on electrical conductors
  - Wiring that is insulated but not protected by sheathing or conduit

**DEFICIENCY I — INSIDE: EXPOSED ELECTRICAL CONDUCTOR.**

**DEFICIENCY CRITERIA:** Electrical conductor is not enclosed or properly insulated (e.g., damaged sheathing, open port, missing knockout, missing outlet or switch cover, missing breaker or fuse, or missing lightbulb).  
 OR  
 An opening or gap is present and measures greater than ¼ inch.

**HEALTH AND SAFETY DETERMINATION:** Life-Threatening      The Life-Threatening category includes deficiencies that, if evident in the home or on the property, present a high risk of death to resident.

**CORRECTION TIMEFRAME:** 24 hours

**HCV PASS / FAIL:** Fail

**HCV CORRECTION TIMEFRAME:** 24 hours

**INSPECTION PROCESS:**

**OBSERVATION:**

- Visually inspect all electrical conductors and determine if any are not enclosed or properly insulated (e.g., damaged sheathing, open port, missing knockout, missing outlet or switch cover, missing breaker or fuse, or missing lightbulb).
- Visually inspect for any opening or gap.

**REQUEST FOR HELP:** - None

**ACTION:** - If an opening or gap is present, measure the space to determine the size of the opening or gap.

**MORE INFORMATION:**

- Low voltage wiring (e.g., telephone, doorbell, thermostat) should not be evaluated under this standard.
- If a device is designed by the manufacturer to intentionally have a gap or space to support ventilation, then it should not be evaluated under this standard.

- Example conductors to be evaluated under this deficiency include but are not limited to:
  - Knockouts
  - Device cover plates that are missing (i.e., evidence of prior installation, but now are not present or are incomplete)
  - Device cover plates that are damaged (i.e., visibly defective; impacts functionality)
  - Lighting fixtures
  - Hardwire smoke alarms
  - Visible wire nuts on electrical conductors
  - Wiring that is insulated but not protected by sheathing or conduit

**DEFICIENCY I — OUTSIDE: EXPOSED ELECTRICAL CONDUCTOR.**

**DEFICIENCY CRITERIA:** Electrical conductor is not enclosed or properly insulated (e.g., damaged sheathing, open port, missing knockout, missing outlet or switch cover, missing breaker or fuse, or missing lightbulb).  
 OR  
 An opening or gap is present and measures greater than ¼ inch.

**HEALTH AND SAFETY DETERMINATION:** Life-Threatening      The Life-Threatening category includes deficiencies that, if evident in the home or on the property, present a high risk of death to resident.

**CORRECTION TIMEFRAME:** 24 hours

**HCV PASS / FAIL:** Fail

**HCV CORRECTION TIMEFRAME:** 24 hours

**INSPECTION PROCESS:**

**OBSERVATION:**

- Visually inspect all electrical conductors and determine if any are not enclosed or properly insulated (e.g., damaged sheathing, open port, missing knockout, missing outlet or switch cover, missing breaker or fuse, or missing lightbulb).
- Visually inspect for any opening or gap.

**REQUEST FOR HELP:** - None

**ACTION:** - If an opening or gap is present, measure the space to determine the size of the opening or gap.

**MORE INFORMATION:**

- Low voltage wiring (e.g., telephone, doorbell, thermostat) should not be evaluated under this standard.
- If a device is designed by the manufacturer to intentionally have a gap or space to support ventilation, then it should not be evaluated under this standard.

- Example conductors to be evaluated under this deficiency include but are not limited to:
  - Service conductors from weather head to electrical panel
  - Knockouts
  - Device cover plates that are missing (i.e., evidence of prior installation, but now are not present or are incomplete)
  - Device cover plates that are damaged (i.e., visibly defective; impacts functionality)
  - Lighting fixtures
  - Hardwire smoke alarms
  - Visible wire nuts on electrical conductors
  - Wiring that is insulated but not protected by sheathing or conduit

**SUMMARY OF CHANGES**

**TITLE:** ELECTRICAL — CONDUCTOR

**VERSION:** V2.2

**DATE PUBLISHED:** 06/23/22

FIELD	CHANGE	VERSION	DATE
----	Abbreviated published version	V2.2	2022-06-23
Name Variants	Removed from published version		
Common Materials	Removed from published version		
Rationale	Removed from published version		
Tools or Equipment	Removed from published version		
<b>Title</b>	<b>Revised title</b>	<b>V2.1</b>	<b>2021-04-02</b>
<b>Definition</b>	<b>Revised definition</b>	<b>V2.1</b>	<b>2021-04-02</b>
<b>Purpose</b>	<b>Revised purpose</b>	<b>V2.1</b>	<b>2021-04-02</b>
<b>Common Components</b>	<b>Revised common components</b>	<b>V2.1</b>	<b>2021-04-02</b>
<b>Location</b>		<b>V2.1</b>	<b>2021-04-02</b>
Unit	Revised explanation		
Inside	Revised explanation		
Outside	Revised explanation		
<b>More Information</b>	<b>Revised response</b>	<b>V2.1</b>	<b>2021-04-02</b>
<b>Deficiency I</b>		<b>V2.1</b>	<b>2021-04-02</b>
Deficiency Criteria	Unit, Inside, & Outside: Revised deficiency criteria		
Rationale	Unit, Inside, & Outside: Revised rationales, types, and explanations		
Inspection Process	Unit, Inside, & Outside: Revised observation, request for help, action, and more information		
Tools or Equipment	Unit, Inside, & Outside: revised and useful tools or equipment		
<b>Title</b>	<b>Copyedits</b>	<b>V2.0</b>	<b>2020-10-28</b>

<b>Definition</b>	<b>Revised definition</b>	<b>V2.0</b>	<b>2020-10-28</b>
<b>Name Variants</b>	<b>Copyedits</b>	<b>V2.0</b>	<b>2020-10-28</b>
<b>Common Components</b>	<b>Copyedits</b>	<b>V2.0</b>	<b>2020-10-28</b>
<b>Deficiency I</b>		<b>V2.0</b>	<b>2020-10-28</b>
Title	Revised title		
Deficiency Criteria	Revised deficiency criteria		
Health and Safety Determination	Added standardized description		
HCV Pass / Fail	Field added; response input as "Fail"		
Rationale	Revised rationale categories, types, and explanations		
Inspection Process	Revised observation and more information		
<b>Overall Formatting</b>	<b>Complete rework of document format and layout</b>	<b>VI.3</b>	<b>2020-07-31</b>
<b>Definition</b>	<b>Revised definition</b>	<b>VI.3</b>	<b>2020-07-31</b>
<b>Purpose</b>	<b>Field added</b>	<b>VI.3</b>	<b>2020-07-31</b>
<b>Name Variants</b>	<b>Revised name variants</b>	<b>VI.3</b>	<b>2020-07-31</b>
<b>Common Materials</b>	<b>Revised common materials</b>	<b>VI.3</b>	<b>2020-07-31</b>
<b>Common Components</b>	<b>Revised common components</b>	<b>VI.3</b>	<b>2020-07-31</b>
<b>Location</b>	<b>Revised inspectable locations</b>	<b>VI.3</b>	<b>2020-07-31</b>
<b>More Information</b>	<b>Field added</b>	<b>VI.3</b>	<b>2020-07-31</b>
<b>Deficiency I</b>	<b>Separated by inspectable locations — Unit, Inside, and Outside</b>	<b>VI.3</b>	<b>2020-07-31</b>
Title	Revised title; added inspectable locations		
Deficiency Criteria	Revised deficiency criteria		
Health and Safety Determination	Revised to "Life-Threatening" determination; added standardized description		
Correction Timeframe	Field added; response input as "24 hours"		
HCV — Correction Timeframe	Field added; response input as "24 hours"		
Rationale	Revised rationale categories, types, and explanations; added standardized codes and descriptions		
Inspection Process	Revised observation, request for help, action, and more information		

Tools or Equipment	Field added to deficiency		
Title	All titles updated	VI-I	2019-11-26
Definition	Updated	VI-I	2019-11-26
Name Variants	Updated	VI-I	2019-11-26
Most Common Components	Updated	VI-I	2019-11-26
Tools for Location and Inspection	Updated	VI-I	2019-11-26
Common Locations	Updated	VI-I	2019-11-26
How to Locate	Updated	VI-I	2019-11-26
Deficiency I	Updated	VI-I	2019-11-26
Rationale	Updated		
How to Inspect	Updated		
Inspection Process and Procedures	Updated		