# ULTRA REMOTE DRIVER CABINETS

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ULTRA REMOTE DRIVER CABINETS

PRODUCT OVERVIEW

Details

URDC is a power supply enclosure that houses LED drivers to power the LEDs installed in the air-handling luminaire modules (Ultrasuite, Ultra Laminar Flow Diffuser and Ultra Fan Filter Units) with a remote driver cabinet option.

The remote LED driver cabinets come with pre-wired driver connections. The quantity of the drivers varies with the size of the luminaire system. Below shows the two types of driver cabinet options available.

The driver cabinet is identified with a model code of URDC-X-YY, where X is the type of the driver in the cabinet and YY is the quantity of drivers in the cabinet. Examples of cabinets with model codes URDC-B-06 and URDC-C-06 are shown.

**NOTE:** Enclosure cover is not shown.

**NOTE:** URDC-B-YY comes in standard cabinet size that can mount up to 6 LED drivers.

**NOTE:** URDC-C-YY available in 6 different size: 2-driver, 4-driver, 6-driver, 8-driver, 10-driver and 12-driver cabinets.

The identification label for the URDC-B-06 (cabinet type B with 6 drivers) and URDC-C-12 (cabinet type C with 12 drivers) are shown.

**NOTE:** The wattage of the driver cabinet depends on the quantity of drivers in the cabinet.
ULTRA REMOTE DRIVER CABINETS

INSTALLATION INSTRUCTIONS

Pre-Installation Instructions and Checklist

Read and Save These Instructions

Warning

- To reduce the risk of fire, electrical shock, or injury to persons, observe the following:
  - Installation work and electrical wiring must be done by a qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.

Before you start

- Inspect all cartons and boxes for flaws and shipping damage.
  - If anything is found to be damaged, contact the shipping company and file a freight claim.
- Review job specific submittal drawing for quantity and sizes of the driver cabinets.

Required Tools/Parts

- To be supplied by contractor.
  - (2+) 8 ft. ladders or scaffolding (If required)
  - Cordless drill/impact
  - Field connection wires
  - Damp cloth(s) (for cleaning)
  - Utility knife
  - Chalk line
  - Pliers with wire cutter
  - Tape measure
  - Clamps/locking plier

- Supplied by Price:
  - Job specific submittal drawing showing all sizes and dimensions of module assembly sections
  - Luminaire module sub-assembly sections (refer to job submittal drawing for quantity and sizes)
  - Dimmer switches (refer to job specific submittal drawing for quantity and field wiring connections)
Remote Driver Cabinet Mounting and Installation

**WARNING! SHOCK HAZARD! MAY RESULT IN SERIOUS INJURY OR DEATH.**
**TURN OFF POWER AT CIRCUIT BREAKER BEFORE INSTALLING THE UNIT.**

- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards.
- When cutting or drilling into wall or ceiling do not damage electrical wiring and other hidden utilities.

**Step 1:** Install Ultrasuite (USA) modules in the ceiling, refer to the *Ultrasuite Array installation manual* for instructions.

**Step 2:** Unpack module assembly sections and lay them out on the floor as per the job specific submittal package and determine remote driver cabinet mounting location. Ensure adequate wire length is available to wire to the remote driver cabinet.

**NOTE:** Refer to the wiring diagrams in this manual or the job specific submittal, for the recommended wire gage and length for the required field wiring.
ULTRA REMOTE DRIVER CABINETS

INSTALLATION INSTRUCTIONS

URDC-B-YY (Surface Wall Mount Only)

**NOTE:** Suitable for surface wall mount only.

**NOTE:** URDC-B-YY is provided with ½-inch trade size knockouts for field wiring.

**Step 1:** Open the cabinet cover by removing the four ¼-20 x ½ in. hex head bolts.

**Step 2:** Mount remote driver cabinet(s) to the wall, at the predetermined location, using the six mounting holes in the bottom of the remote driver cabinet. Remote driver cabinet weighs approximately 75lbs, ensure adequate mounting techniques/methods are used. This product must be installed in accordance with applicable installation codes as required.

**NOTE:** Remote driver cabinet must be surface mounted on the wall with the louvers facing up and down.

**NOTE:** Louvers or slots in remote driver cabinet must be kept clear to ensure proper airflow through the cabinet. Failure to do so may shorten the life expectancy of the remote drivers.

MOUNTING HOLE LOCATIONS FOR URDC-B-YY (DIMENSIONS IN INCHES) ▼
Step 3: Repeat above steps until all remote driver cabinets have been installed.

**NOTE:** Remote driver cabinets must have a minimum of 6 in. clearance on all sides.

Step 4: Refer to page 9 for the electrical connections for the URDC-B-YY. Refer to the wiring diagrams on pages 11-16 for the recommended wire gage and length for the low voltage field wiring.
ULTRA REMOTE DRIVER CABINETS

INSTALLATION INSTRUCTIONS

URDC-C-YY (Recessed Type IC)

**NOTE:** Suitable for both recessed and surface wall/ceiling mount.

**Step 1:** Open the cover for the URDC-C-YY by removing the ¼-20 x ½ in. hex head bolts.

**Step 2:** Mount the cabinet at the predetermined location using the mounting holes provided.

**NOTE:** Refer to page 7 for the location of the mounting holes. Four mounting holes are provided for a 1 to 6-driver cabinet, and six mounting holes are provided for the 7 to 12-driver cabinet. Remote driver cabinet weighs 20-90lbs depending on the size of the cabinet.

**NOTE:** Ensure adequate mounting techniques/methods are used. This product must be installed in accordance with the applicable installation codes as required.
Table 1 shows the overall dimensions of the cabinet as well as the mounting hole locations.

<table>
<thead>
<tr>
<th>Cabinet Model Code</th>
<th>Dimensions (Inches)</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>URDC-C-02</td>
<td>11 7/16</td>
<td>15 1/2</td>
<td>9 27/32</td>
<td>12 19/32</td>
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<tr>
<td>URDC-C-04</td>
<td>22 9/16</td>
<td>15 1/2</td>
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<tr>
<td>URDC-C-06</td>
<td>33 11/16</td>
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<td>32 3/32</td>
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<tr>
<td>URDC-C-10</td>
<td>55 15/16</td>
<td>15 1/2</td>
<td>21 19/32</td>
<td>12 19/32</td>
</tr>
<tr>
<td>URDC-C-12</td>
<td>67 1/16</td>
<td>15 1/2</td>
<td>32 23/32</td>
<td>12 19/32</td>
</tr>
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</table>

Step 3: Refer to page 8 for the electrical connections for URDC-C-YY. Refer to the wiring diagrams on pages 17 and 18 for the recommended wire gage and length for the low voltage field wiring.
Electrical Connections

WARNING! SHOCK HAZARD. MAY RESULT IN SERIOUS INJURY OR DEATH. TURN OFF POWER AT CIRCUIT BREAKER BEFORE INSTALLING THE UNIT.

- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards.
- When cutting or drilling into wall or ceiling do not damage electrical wiring and other hidden utilities.

**NOTE:** The luminaire is provided with a terminal block connection point for the field wiring to driver cabinets. Low voltage connection points on the luminaire are shown.
Wiring for URDC-B-YY

This section outlines the steps for connecting the luminaire to the URDC-B-YY.

**NOTE:** The wire connection points on the luminaire modules and driver cabinet is provided with identification labels for wiring purposes.

**WIRING IDENTIFICATION LABEL - URDC-B-YY**

**Step 1:** Identify the wiring identification labels on the luminaire modules and the driver cabinet.

**Step 2:** Use the wiring diagram or job specific submittal to determine the required wire gage for the wire connecting the luminaire module to the driver cabinet.

**NOTE:** Using a wire length longer than recommended may cause a voltage drop, thus affecting the LED output.

**Step 3:** Connect the wire between the connection point on the luminaire module and the corresponding connection point on the driver cabinet.

**NOTE:** It is recommended to label the wire at both ends for troubleshooting purposes.

**Step 4:** Wire the high voltage side of the driver cabinet according to the wiring diagrams shown on pages 11-16 of this manual.

**NOTE:** Wiring should be carried out by a certified electrician in accordance to meet all applicable codes and standards.
ULTRA REMOTE DRIVER CABINETS

INSTALLATION INSTRUCTIONS

Wiring for URDC-C-YY

This section outlines the steps for connecting the luminaire to the URDC-C-YY.

**NOTE:** The wire connection points on the luminaire modules and driver cabinet is provided with identification labels for wiring purposes.

**Step 1:** Identify the wiring identification labels on the luminaire modules and the driver cabinet.

**Step 2:** Use the wiring diagram/submittal to determine the required wire gage for the wire connecting the luminaire module to the driver cabinet.

**NOTE:** Using a wire length longer than recommended may cause a voltage drop, thus affecting the LED output.

**Step 3:** Connect the wire between the connection point on the luminaire module and the corresponding connection point on the driver cabinet.

**NOTE:** It is recommended to label the wire at both ends for troubleshooting purposes.

**Step 4:** Connect the 0-10V signal wires (from dimmer switch or any other 0-10V supply source) to the driver cabinet as shown in the wiring diagrams.

**NOTE:** 0-10V control signal wiring should not exceed 500ft. Do not use wire smaller than 20AWG.

**NOTE:** WHEN LIMITED ENERGY CABLE IS USED FOR THE DC OUTPUTS AND DIMMING INPUT, IT SHALL BE RELIABLY ROUTED AWAY FROM ANY NON-CLASS 2 FACTORY INSTALLED WIRING BY AT LEAST ¼” BY THE USE OF TIE-WRAPS, CABLE CLAMPS OR SIMILAR MEANS.

**Step 5:** Wire the high voltage side of the driver cabinet according to the wiring diagrams shown on pages 17 and 18 of this manual.

**NOTE:** Wiring should be carried out by a certified electrician in accordance to meet all applicable codes and standards.

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**WIRING IDENTIFICATION LABEL - URDC-C-06 ▼**

![Diagram of wiring identification labels with annotations indicating holes and knockouts provided for low voltage and high voltage wiring.]
ULTRA REMOTE DRIVER CABINETS

WIRING DIAGRAMS

Driver Cabinet Wiring Diagrams

WIRING DIAGRAM FOR URDC-B-01

LEGEND
G - GROUND
N - NEUTRAL
DH - DIMMED HOT
L - SWITCHED HOT
(+) - LED +
(-) - LED -
HVTB - HIGH VOLT TERMINAL BLOCK
LVTB - LOW VOLT TERMINAL BLOCK

WIRING NOTES
1. USE COPPER 75 C MIN. RATED WIRE FOR FIELD CONNECTION SUPPLY.
2. USE COPPER 80 C MIN. RATED PLENUM RATED WIRE FOR LOW VOLTAGE FIELD CONNECTION.
   (SEE TABLE BELOW FOR RECOMMENDED WIRE GAGE AND LENGTHS)

<table>
<thead>
<tr>
<th>WIRE GAGE</th>
<th>LENGTH (FT)</th>
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<tbody>
<tr>
<td>18 AWG</td>
<td>15 FT</td>
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<td>16 AWG</td>
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<td>8 AWG</td>
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</table>

LINE LEGEND
——— FACTORY ELECTRICAL WIRING
—- FIELD ELECTRICAL WIRING

24 VDC LOW VOLTAGE TO DIFFUSER/LED MODULE JUNCTION BOX

FROM DIMMER SWITCH

120-277
LINE/CONTROL

DRIVER 1

HVTB

1 2

G N DH L

(-)
(+)
(-)
(+)

Driver 1

LEGEND
G - GROUND
N - NEUTRAL
DH - DIMMED HOT
L - SWITCHED HOT
(+) - LED +
(-) - LED -
HVTB - HIGH VOLT TERMINAL BLOCK
LVTB - LOW VOLT TERMINAL BLOCK

WIRING NOTES
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LINE LEGEND
——— FACTORY ELECTRICAL WIRING
—- FIELD ELECTRICAL WIRING

24 VDC LOW VOLTAGE TO DIFFUSER/LED MODULE JUNCTION BOX

FROM DIMMER SWITCH

120-277
LINE/CONTROL

DRIVER 1

HVTB

1 2

G N DH L

(-)
(+)
(-)
(+)

Driver 1

LEGEND
G - GROUND
N - NEUTRAL
DH - DIMMED HOT
L - SWITCHED HOT
(+) - LED +
(-) - LED -
HVTB - HIGH VOLT TERMINAL BLOCK
LVTB - LOW VOLT TERMINAL BLOCK

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ULTRA REMOTE DRIVER CABINETS

WIRING DIAGRAMS

WIRING DIAGRAM FOR URDC-B-02

LEGEND
G - GROUND
N - NEUTRAL
DH - DIMMED HOT
L - SWITCHED HOT
($) - LED +
($) - LED -
HVTB - HIGH VOLT TERMINAL BLOCK
LVTB - LOW VOLT TERMINAL BLOCK

WIRING NOTES
1. USE COPPER 75°C MIN. RATED WIRE FOR FIELD CONNECTION SUPPLY.
2. USE COPPER 80°C MIN. RATED PLENUM RATED WIRE FOR LOW VOLTAGE FIELD CONNECTION.
(SEE TABLE BELOW FOR RECOMMENDED WIRE GAGE AND LENGTHS)

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<td>180 FT</td>
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**ULTRA REMOTE DRIVER CABINETS**

**WIRING DIAGRAMS**

**WIRING DIAGRAM FOR URDC-B-03**

---

**LEGEND**
- G - GROUND
- N - NEUTRAL
- DH - DIMMED HOT
- L - SWITCHED HOT
- (+) - LED +
- (-) - LED -
- HVTB - HIGH VOLT TERMINAL BLOCK
- LVTB - LOW VOLT TERMINAL BLOCK

**WIRING NOTES**
1. USE COPPER 75°C MIN. RATED WIRE FOR FIELD CONNECTION SUPPLY.
2. USE COPPER 80°C MIN. RATED PLENUM RATED WIRE FOR LOW VOLTAGE FIELD CONNECTION.

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**LINE LEGEND**
- --- - FACTORY ELECTRICAL WIRING
- --- - FIELD ELECTRICAL WIRING

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**WIRING DIAGRAM FOR URDC-B-03**

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**Print Date: 2018-09-07**

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**Network File Location:**
T:\Critical Environments\USA\Manufacturing Details\Standard\269685.dft

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**Description**
- FROM DIMMER SWITCH
- 24 VDC LOW VOLTAGE TO DIFFUSER/LED MODULE JUNCTION BOX
ULTRA REMOTE DRIVER CABINETS
WIRING DIAGRAMS

WIRING DIAGRAM FOR URDC-B-04

LEGEND
G - GROUND
N - NEUTRAL
DH - DIMMED HOT
L - SWITCHED HOT
H - LED +
L - LED -
HVTB - HIGH VOLT TERMINAL BLOCK
LVTB - LOW VOLT TERMINAL BLOCK

WIRING NOTES
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<tr>
<td>10 AWG</td>
<td>115 FT</td>
</tr>
<tr>
<td>8 AWG</td>
<td>180 FT</td>
</tr>
</tbody>
</table>

LINE LEGEND
FACTORY ELECTRICAL WIRING
——— FIELD ELECTRICAL WIRING

24 VDC LOW VOLTAGE TO DIFFUSER/LED MODULE JUNCTION BOX

FROM DIMMER SWITCH

120-277~ FROM DIMMER SWITCH

18 AWG 15 FT
ULTRA REMOTE DRIVER CABINETS

WIRING DIAGRAMS

WIRING DIAGRAM FOR URDC-B-05

LEGEND
G - GROUND
N - NEUTRAL
DH - DIMMED HOT
L - SWITCHED HOT
+ - LED +
- - LED -
HVTB - HIGH VOLT TERMINAL BLOCK
LVTB - LOW VOLT TERMINAL BLOCK

WIRING NOTES
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2. USE COPPER 80 C MIN. RATED PLENUM RATED WIRE FOR LOW VOLTAGE FIELD CONNECTION.

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<td>10 AWG</td>
<td>115 FT</td>
</tr>
<tr>
<td>8 AWG</td>
<td>180 FT</td>
</tr>
</tbody>
</table>

LINE LEGEND
--- FACTORY ELECTRICAL WIRING
--- FIELD ELECTRICAL WIRING
ULTRA REMOTE DRIVER CABINETS

WIRING DIAGRAMS

WIRING DIAGRAM FOR URDC-B-06

LEGEND
- G - GROUND
- N - NEUTRAL
- DH - DIMMED HOT
- L - SWITCHED HOT
- (+) - LED +
- (-) - LED -
- HVTB - HIGH VOLT TERMINAL BLOCK
- LVTB - LOW VOLT TERMINAL BLOCK

WIRING NOTES
1. USE COPPER 75 C MIN. RATED WIRE FOR FIELD CONNECTION SUPPLY.
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<tr>
<td>8 AWG</td>
<td>180 FT</td>
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</table>
ULTRA REMOTE DRIVER CABINETS

WIRING DIAGRAMS

WIRING DIAGRAM FOR URDC-C-YY (WITHOUT RELAY SWITCH)

<table>
<thead>
<tr>
<th>DASH NO.</th>
<th>DESCRIPTION</th>
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<tr>
<td>11</td>
<td>LED DRIVER 1</td>
</tr>
<tr>
<td>12</td>
<td>LED DRIVER 2</td>
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<td>13</td>
<td>LED DRIVER 3</td>
</tr>
<tr>
<td>14</td>
<td>LED DRIVER 4</td>
</tr>
</tbody>
</table>

LEGEND

- LINE CONTROL
  - G: GROUND
  - N: NEUTRAL
  - L: LINE
  - 0-10 VDC
  - (+): 0-10V +
  - (-): LED -
  - 24 VDC
  - (+): LED +
  - (-): 0-10V -

1) WHEN LIMITED ENERGY CABLE IS USED FOR THE DC OUTPUTS AND DIMMING INPUTS, IT SHALL BE RELIABLY ROUTED AWAY FROM ANY NON-CLASS 2 FACTORY INSTALLED WIRING BY AT LEAST 1/4" BY THE USE OF TIE-WRAPS, CABLES OR SIMILAR MEANS.
2) 0-10VDC WIRE LENGTH SHOULD NOT EXCEED 500FT IF THE SUPPLIED DIMMER IS BEING USED FOR DIMMING.
3) USE MINIMUM 20AWG WIRE FOR 0-10VDC CONTROL SIGNAL.
4) USE COPPER 75 C MIN RATED WIRE FOR FIELD CONNECTION SUPPLY.
5) USE COPPER 80 C MIN RATED WIRE FOR LOW VOLTAGE FIELD LUMINAIRE CONNECTIONS.

INSTALLATION WORK AND ELECTRICAL WIRING MUST BE DONE BY QUALIFIED PERSON(S) IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.

<table>
<thead>
<tr>
<th>WIRE GAUGE</th>
<th>LENGTH</th>
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<tbody>
<tr>
<td>10 AWG</td>
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<td>180 FT</td>
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</table>
ULTRA REMOTE DRIVER CABINETS

WIRING DIAGRAMS

WIRING DIAGRAM FOR URDC-C-YY (WITH RELAY SWITCH) ▼

1) WHEN LIMITED ENERGY CABLE IS USED FOR THE DC OUTPUTS AND DIMMING INPUTS, IT SHALL BE RELIABLY ROUTED AWAY FROM ANY NON-CLASS 2 FACTORY INSTALLED WIRING BY AT LEAST 1/4" BY THE USE OF TIE-WRAPS, CABLES OR SIMILAR MEANS.
2) 0-10VDC WIRE LENGTH SHOULD NOT EXCEED 500FT IF THE SUPPLIED DIMMER IS BEING USED FOR DIMMING.
3) USE MINIMUM 20AWG WIRE FOR 0-10VDC CONTROL SIGNAL.
4) USE COPPER 75 C MIN. RATED WIRE FOR FIELD CONNECTION SUPPLY.
5) USE COPPER 80 C MIN. RATED WIRE FOR LOW VOLTAGE FIELD LUMINAIRE CONNECTIONS.

### NOTES:

- See Table Below For Recommended Wire Gauge and Lengths
- **ULTRASUITE ARRAY**
- Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards

### LEGEND

- LINE CONTROL
- G: GROUND
- N: NEUTRAL
- L: LINE
- 0-10 VDC
- (+): LED +
- (-): LED -
- 24 VDC
- (+): LED +
- (-): LED -

### TERMINAL BLOCKS

- HVTB-1: HIGH VOLT TERMINAL BLOCK 1
- LVTB-1: 0-10VDC CONNECTION TERMINAL BLOCK
- LVTB-2: 24VDC CONNECTION TERMINAL BLOCK

### KEY

- **FACTORY ELECTRICAL WIRING**
- **FIELD ELECTRICAL WIRING**

### WIRE GAGE LENGTH

<table>
<thead>
<tr>
<th>Wire Gauge</th>
<th>Length</th>
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<tbody>
<tr>
<td>18 AWG</td>
<td>15 FT</td>
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<tr>
<td>16 AWG</td>
<td>25 FT</td>
</tr>
<tr>
<td>14 AWG</td>
<td>45 FT</td>
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<tr>
<td>12 AWG</td>
<td>70 FT</td>
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<tr>
<td>10 AWG</td>
<td>110 FT</td>
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<tr>
<td>8 AWG</td>
<td>180 FT</td>
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