

3 | wiring

Notes

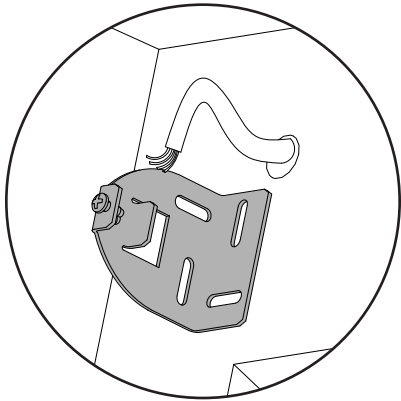
prewire | roller 64

Choose one of the options below to drill for cable access.

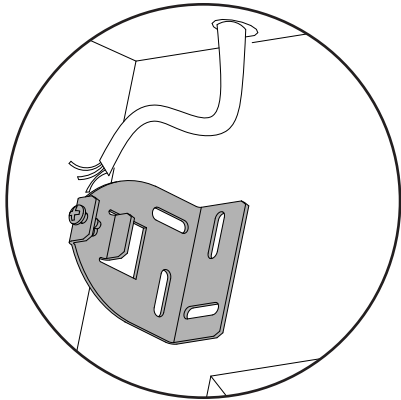
Note: Cable should exit from wall, ceiling, or jamb on EDU side of system.

Note: Leave 12-18" (30.5-45.7cm) of cable exposed.

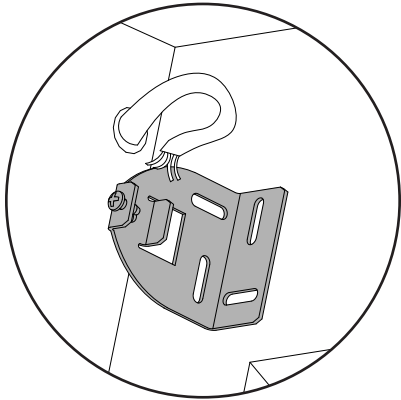
Wall Mount with wires through:



A) Wall: 1" in from end of system and .5" from top of bracket

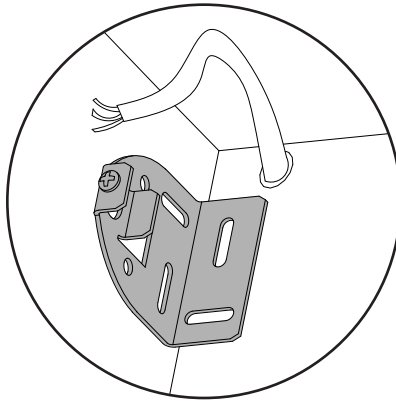


B) Ceiling: .5" in from end of system and .5" from mounting wall

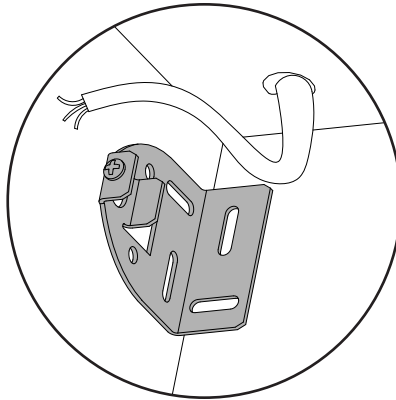


C) Jamb: 1" from top of bracket and .5" from mounting wall

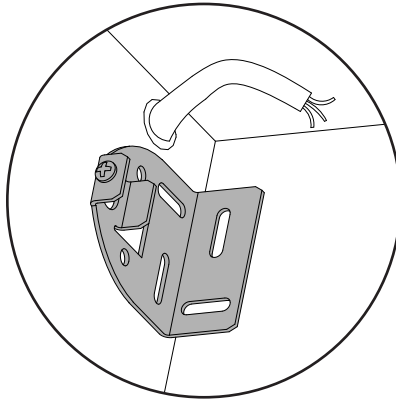
Jamb Mount with wires through:



A) Wall: .5" from ceiling and .5" from outside of jamb

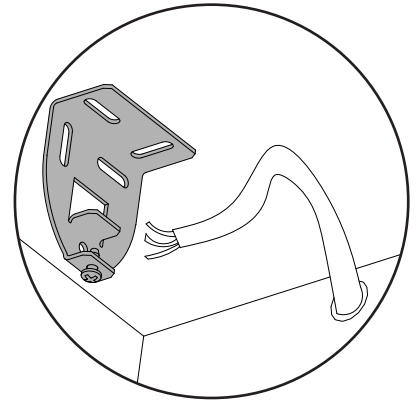


B) Ceiling: .5" from wall and .5" from outside of jamb

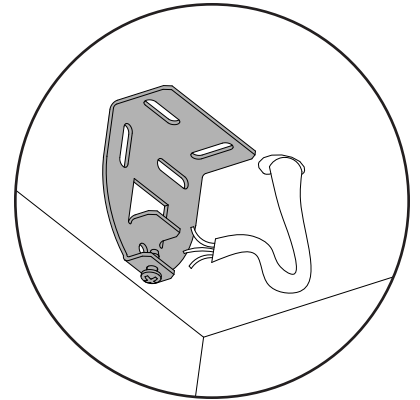


C) Jamb: .5" from ceiling and .5" from wall

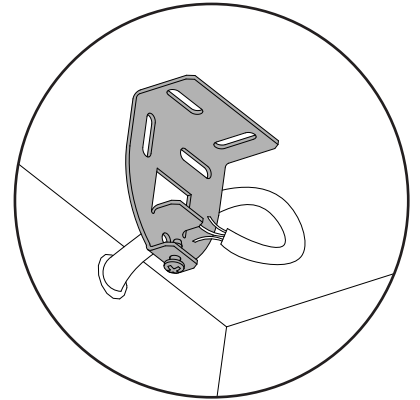
Ceiling Mount with wires through:



A) Wall: 1" in from end of system and .5" from ceiling



B) Ceiling: 1" in from end of system and .5" from back of bracket



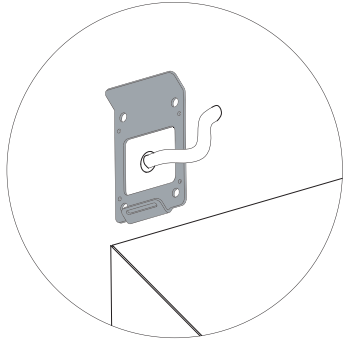
C) Jamb: 1" from back of bracket and .5" from ceiling

prewire | roller 100 | wall and ceiling mount

Determine where to drill for cable access to EDU.
Leave 12-18" of cable exposed.

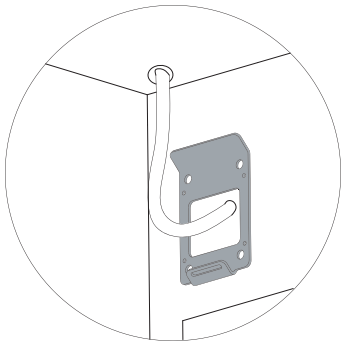
Wall Mount

cable exiting wall



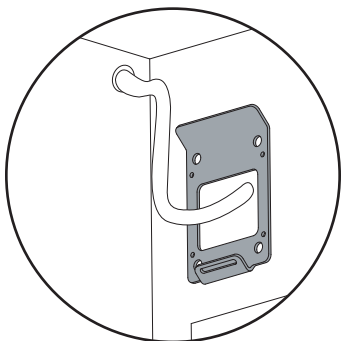
Drill for cable 1 1/4" - 2" from end of system and 2 - 2 1/2" from top of system

cable exiting ceiling



Drill for cable 1/2" from end of system and 1/2" from mounting wall.

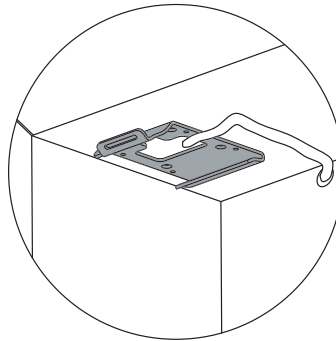
cable exiting jamb



Drill for cable 1/2" from top top of system and 1/2" from mounting wall.

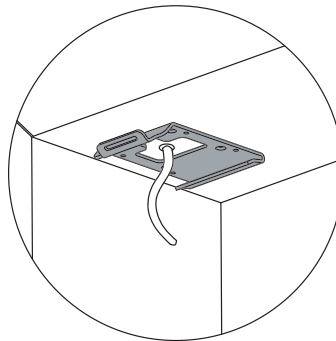
Ceiling Mount

cable exiting wall



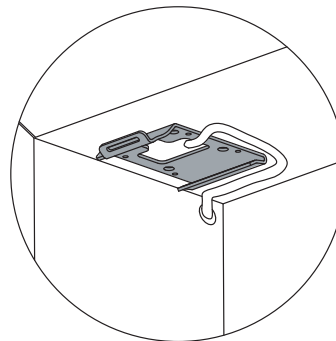
Drill for cable 3 1/4" from end of system and 1/2" down from top of system.

cable exiting ceiling



Drill for cable 1 1/4" - 2" from end of system and 1 1/4" - 1 3/4" from back of system.

cable exiting jamb



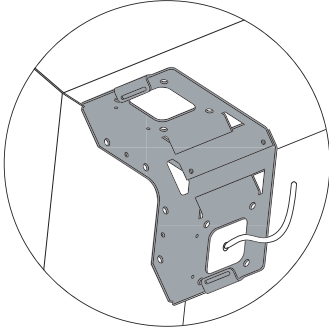
Drill for cable 1/2" from top top of system and 3/4" from mounting wall.

prewire | roller 100 | jamb and fascia/top-back cover

Determine where to drill for cable access to EDU.
 Leave 12-18" of cable exposed.

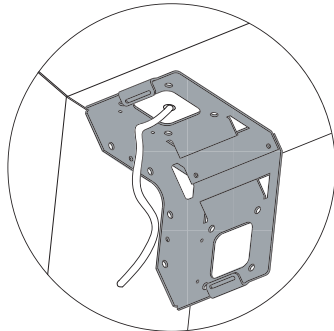
Jamb Mount

cable exiting wall



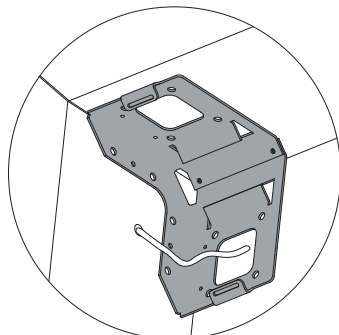
Drill for cable 2 1/2" - 3" from top of system and 1 1/4" - 2 1/4" from end of system.

cable exiting ceiling



Drill for cable 2 1/2" - 3" from back of the system and 1 1/4" - 2 1/4" from end of system.

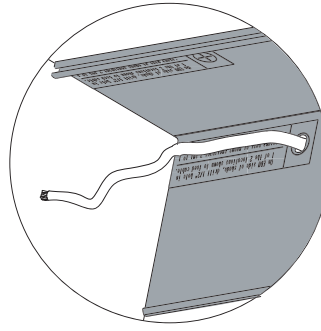
cable exiting jamb



Drill for cable 2" from top and 2" from the back of the system.

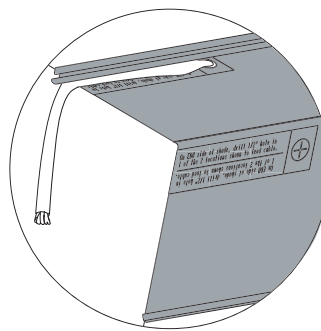
Fascia/ Top-back Cover

cable exiting wall



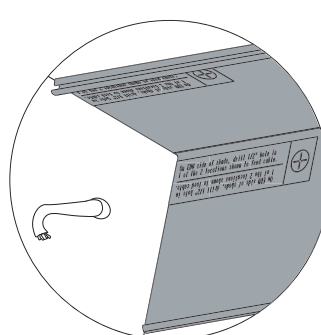
Drill for cable 4" from end of system and 1/2" from top or where indicated on top/back cover.

cable exiting ceiling



Drill for cable 4" from end of system and 1/2" from front or where indicated on top/back cover.

cable exiting jamb



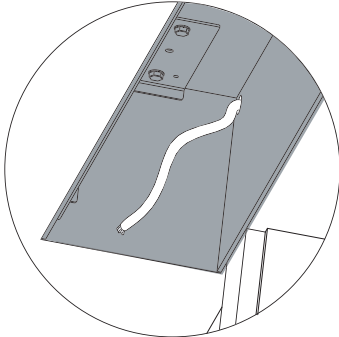
Drill for cable 2" from top and 2" from the back of the Top/Back cover.

prewire | roller 100 | recess pocket

Determine where to drill for cable access into pocket. See options below. Cable should exit from wall, ceiling or jamb on EDU side of pocket.

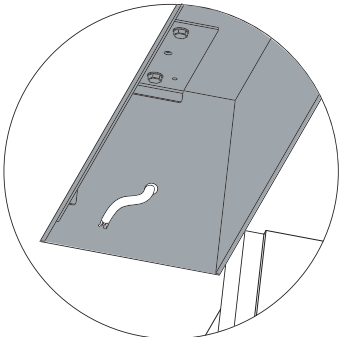
Roller 225

wall



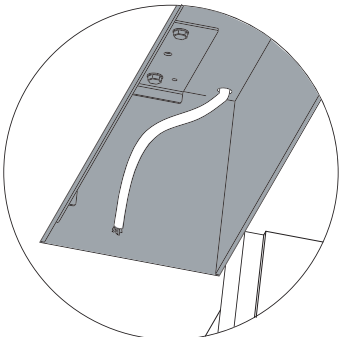
Drill for cable 1/2" from end of pocket and 1/2" from top of pocket.

jamb



Drill for cable 3-3/4" from top of pocket and 2" from back of pocket.

ceiling



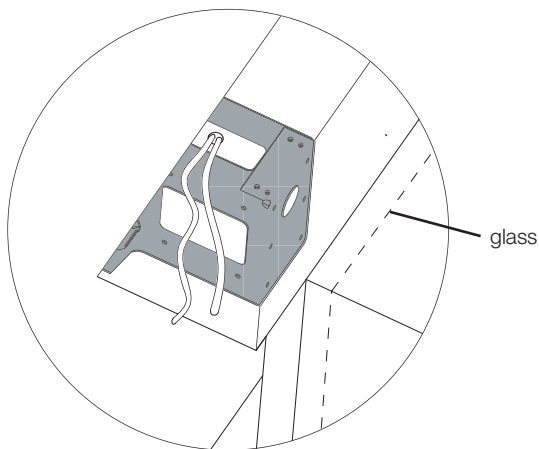
Drill for cable 1/2" from end of pocket and 1/2" from back of pocket.

prewire | roller 100 | dual-mounted

Determine where to drill for cable access. See options below.

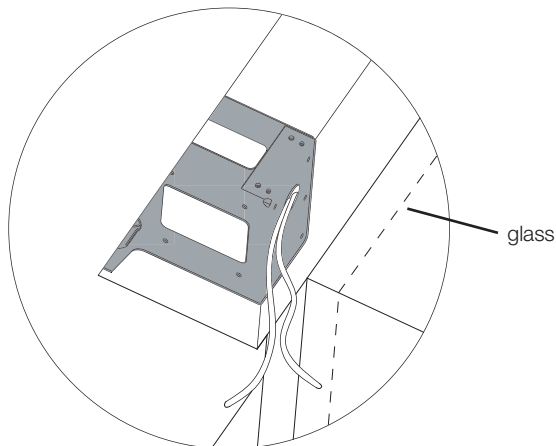
Two lengths of 12-18" of cable should exit the ceiling, jamb or either wall on the EDU side of the shades.

Ceiling



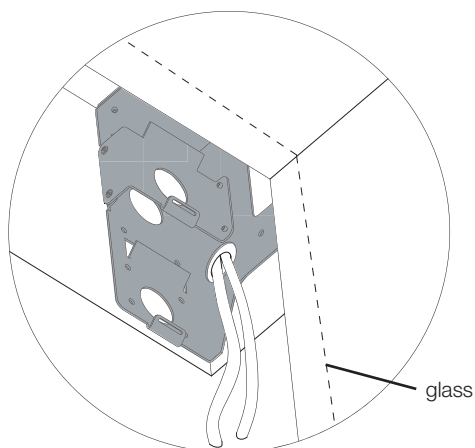
Drill for cable 1 1/2" - 3 1/2" from back and 1 1/4" - 2" from end of system.

Wall on glass side



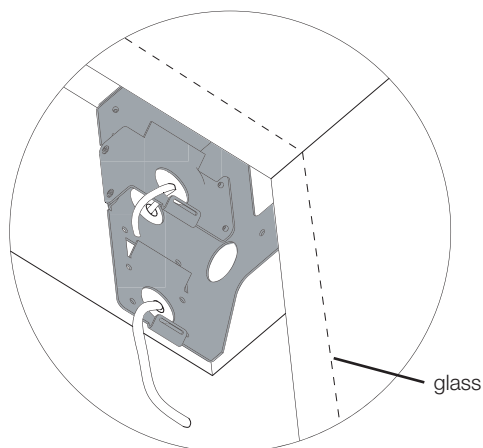
Drill for cables 1 1/2" - 2 1/2" from top and 1 1/2" - 2 1/2" from end of system.

Jamb



Drill for cable 5 1/4" - 6" from back and 4 1/4" - 5" from top of system.

Wall opposite glass side

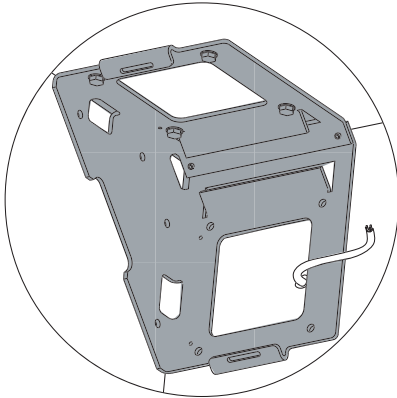


Drill for one cable 2 1/2" - 3 1/2" from top and 1 1/2" - 2 1/2" from end of the system. Drill for second cable 6 1/2" - 7 1/2" from top and 1 1/2" - 2 1/2" from end of system.

prewire | roller 225

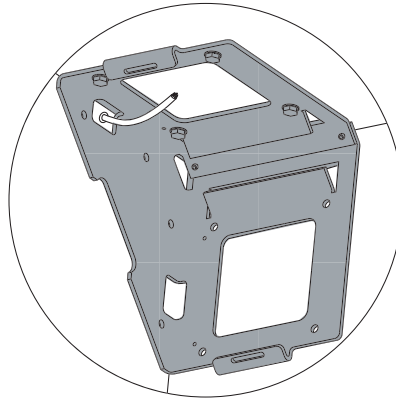
The Sivoia QED Roller 225 system uses different brackets than the roller 100 system. Two lengths of 12-18" of cable should exit the ceiling, jamb or either wall on the EDU side of the shades.

cable exiting wall



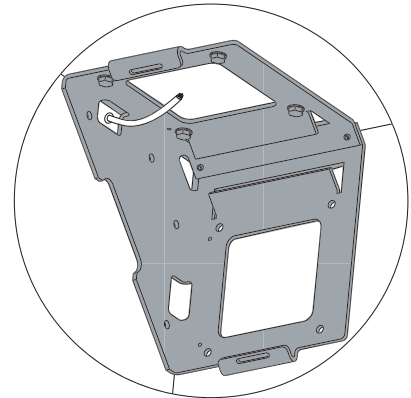
Drill for cable 1 1/2" from end of system and 2 1/2"-4" from top of system.

cable exiting jamb



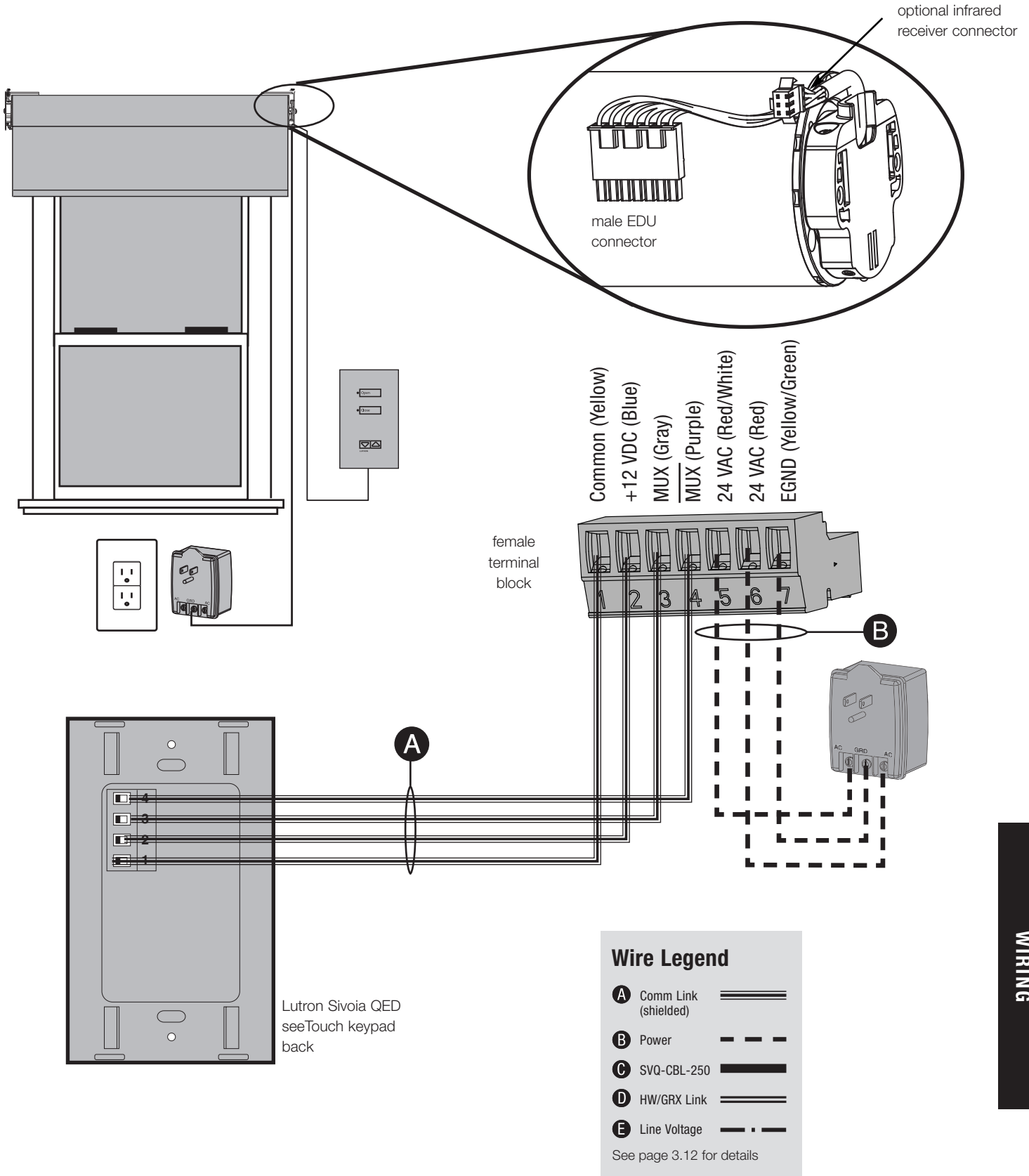
Drill for cable 1/2" from top of system and 3 1/2" from back of system.

cable exiting ceiling



Drill for cable 1/2" to 3 3/4" from end of system and 2 1/2"- 4 1/2" from back of system.

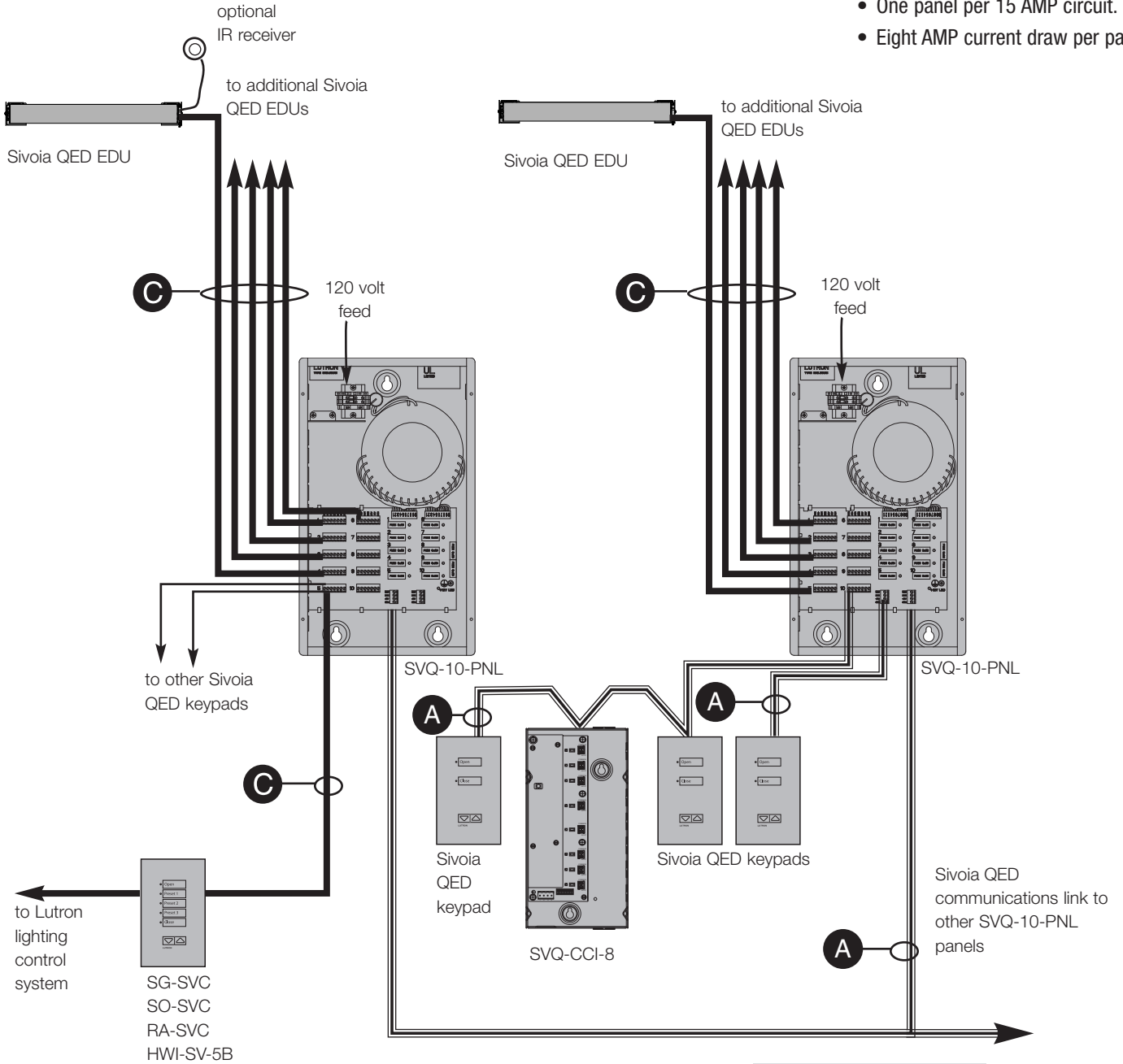
single EDU | plug-in transformer



WIRING

transformer panel | overview

- One panel per 15 AMP circuit.
- Eight AMP current draw per panel.



(integration to Lutron lighting control systems)

Wire Legend

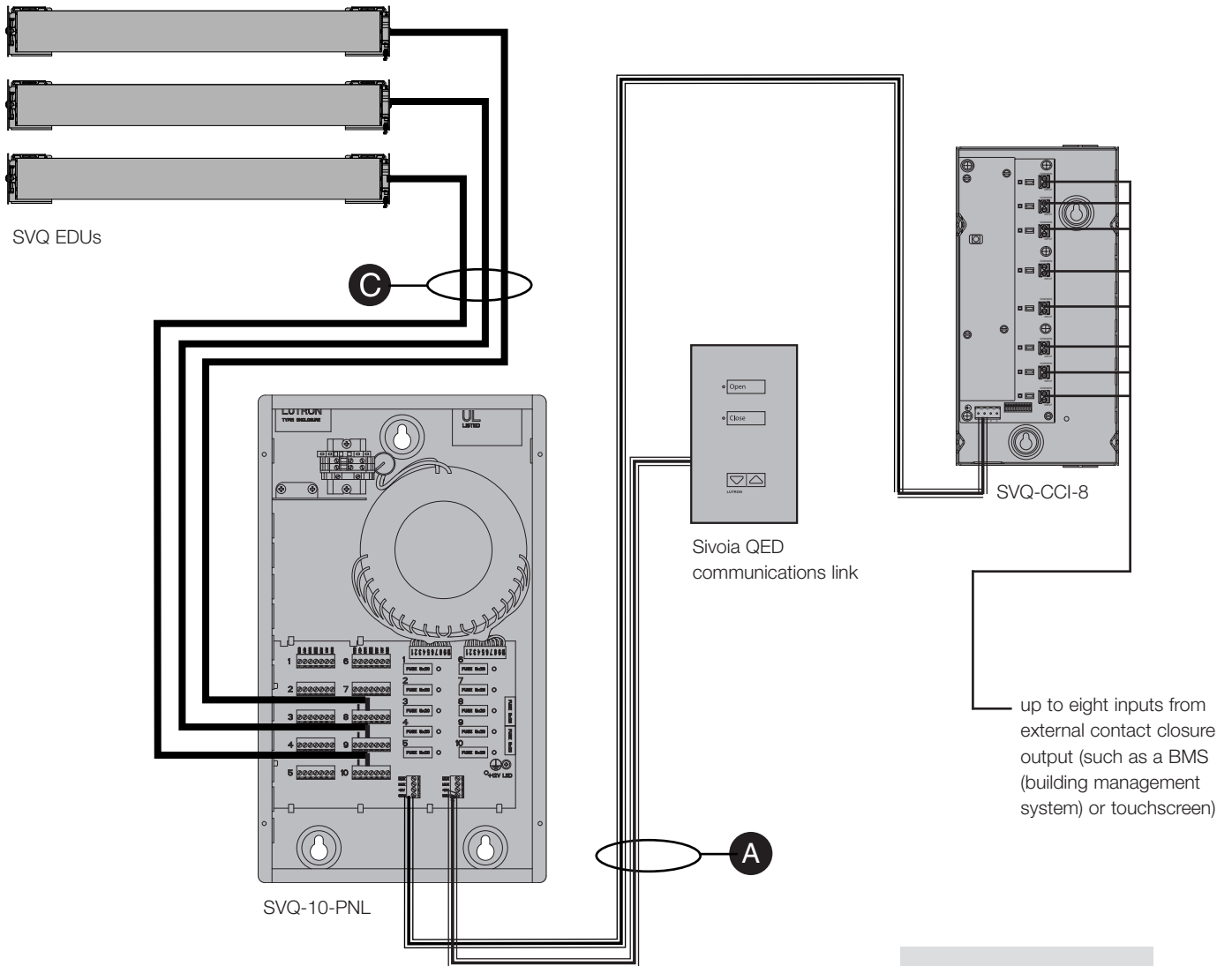
- A** Comm Link (shielded)
- B** Power
- C** SVQ-CBL-250
- D** HW/GRX Link
- E** Line Voltage

See page 3.12 for details

transformer panel | home-run wiring

Advantages:

- No derating of distances
- Most convenient for pre-wire and installation
- Most accessible for troubleshooting



Note: When the number of keypads in an installation exceeds the number of Sivoia QED EDUs, external keypad power supplies would be required. See page 1.6

Wire Legend

- A** Comm Link (shielded)
- B** Power
- C** SVQ-CBL-250
- D** HW/GRX Link
- E** Line Voltage

See page 3.12 for details

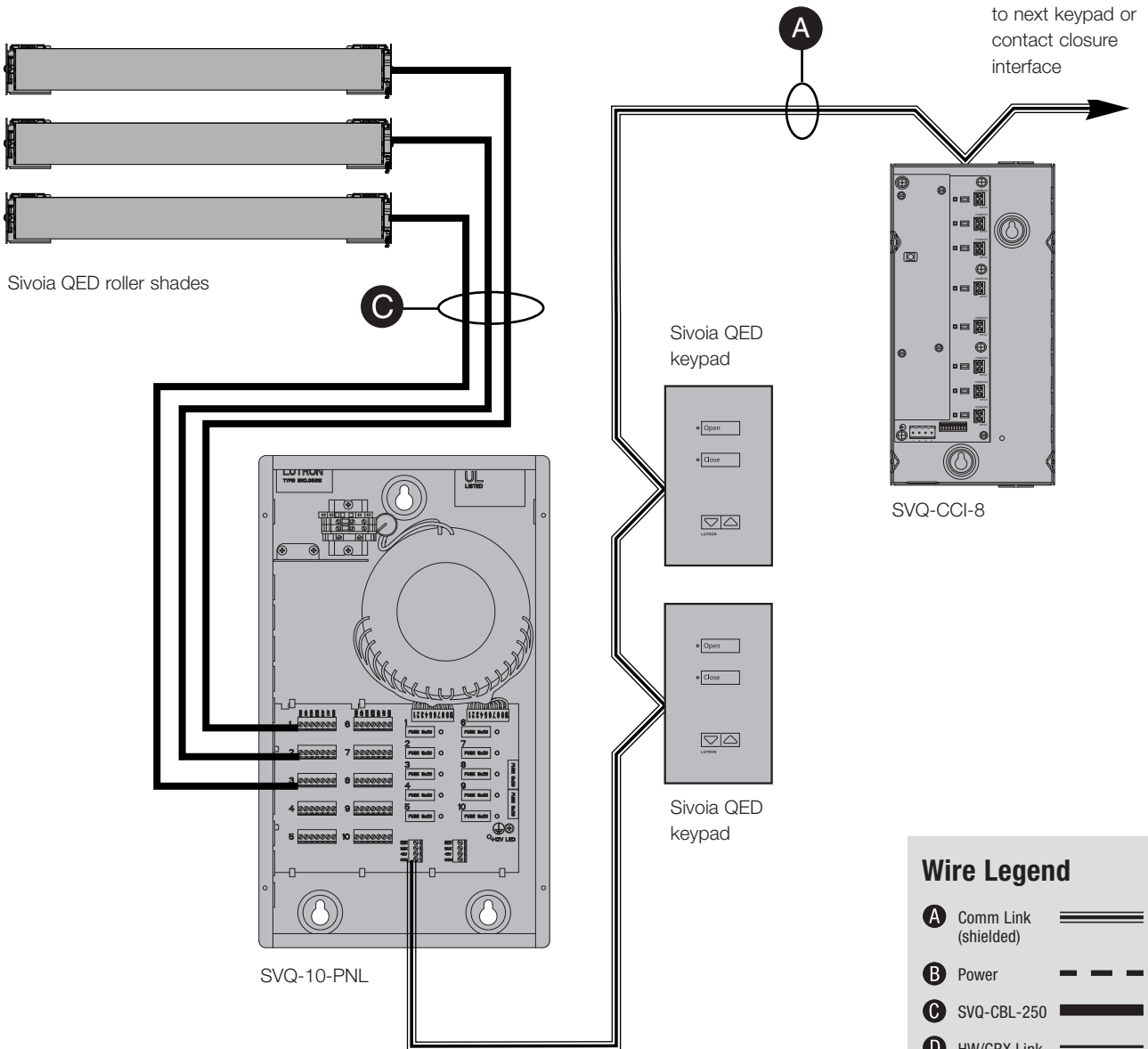
WIRING

transformer panel | with communications link

- Utilize a custom Lutron cable to connect all power from each EDU to the transformer panel in a home-run fashion.

Four conductor low-voltage wiring then links the panel to all keypads and contact closure interfaces. See page 1.6 for limitations on daisy-chaining controls on one branch.

Note: When the number of keypads in an installation exceeds the number of Sivoia QED EDUs, external keypad power supplies would be required. See page 1.6 for more on this feature.



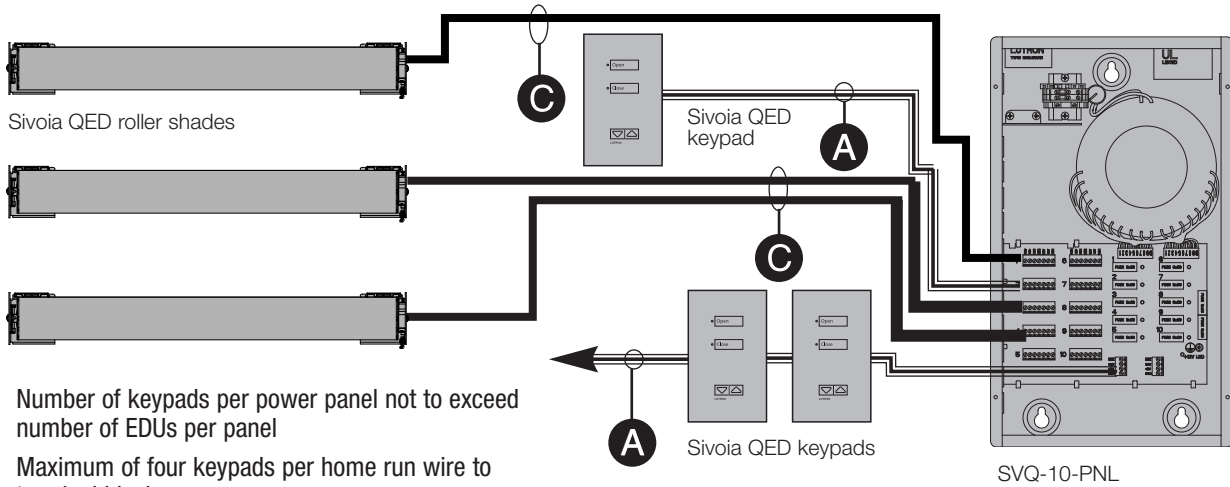
WIRING

Wire Legend

- A** Comm Link (shielded)
- B** Power
- C** SVQ-CBL-250
- D** HW/GRX Link
- E** Line Voltage

See page 3.12 for details

transformer panel | wire specifications






- Number of keypads per power panel not to exceed number of EDUs per panel
- Maximum of four keypads per home run wire to terminal block

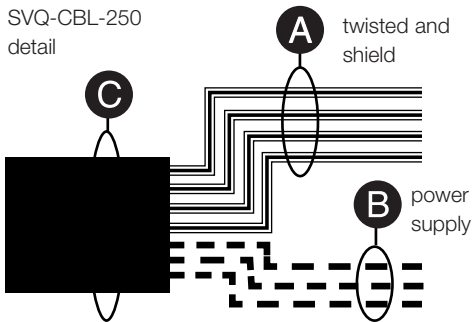
WIRE TYPES

MAXIMUM WIRE LENGTH

ICON

<p>A Comm Link 4 Conductor #18AWG (twisted and shielded) Maximum comm Link - 4000 feet</p> <p>Note: Lutron cable GRX-CBL-346S-500 can be used for the 4-wire communication link so long as the #18awg conductors are used for +12V and Common.</p>	<p>Keypad to Power Panel</p> <p>1 keypad - 1000 feet 2 keypads - 500 feet 3 keypads - 300 feet 4 keypads - 200 feet</p>	
<p>B Power Supply 3 Conductor #16-20AWG</p>	<p>EDU to Panel</p> <p>#16AWG - 200 feet #18AWG - 150 feet #20AWG - 100 feet</p>	
<p>C SVQ-CBL-250 (A and B combined) 7 Conductor, being: 2- #16AWG Power Supply (red, red/white) 1 -#18AWG Earth Ground (green/yellow) 4- #18AWG Comm Link (blue, yellow, violet, gray, twisted and shielded)</p>	<p>EDU to Power Panel - 200 feet</p> <p>1 keypad to Power Panel - 1000 feet 2 keypads to Power Panel - 500 feet 3 keypads to Power Panel - 300 feet 4 keypads to Power Panel - 200 feet</p>	

SVQ-CBL-250 detail








Note: If Sivoia QED cable is used for keypad wiring, there would be extra conductors left unused.

Note: power supply wires should NOT be in the same shielding as communication wires.

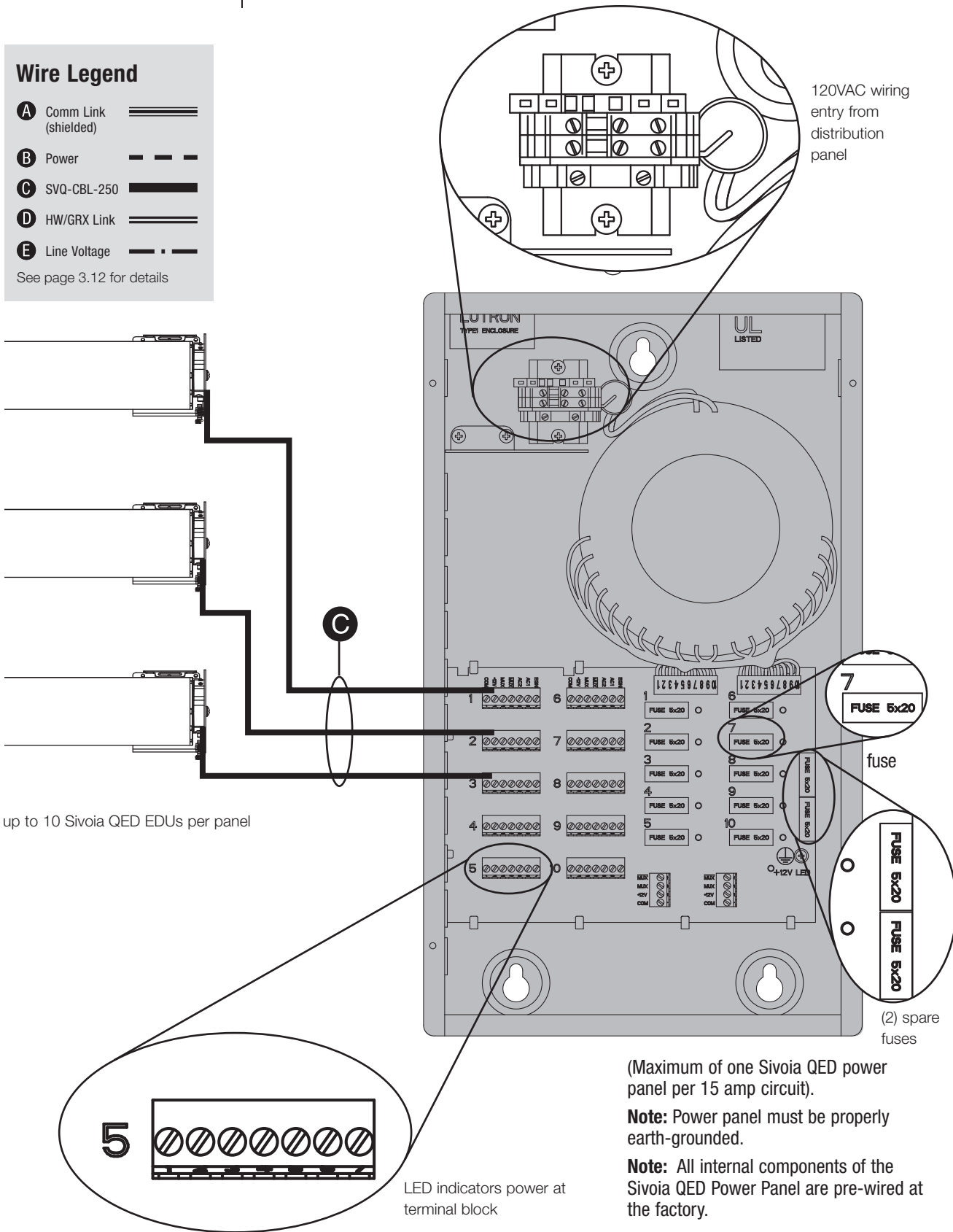
WIRING

transformer panel | detail

Wire Legend

- A** Comm Link (shielded) 
- B** Power 
- C** SVQ-CBL-250 
- D** HW/GRX Link 
- E** Line Voltage 

See page 3.12 for details



up to 10 Sivoia QED EDUs per panel

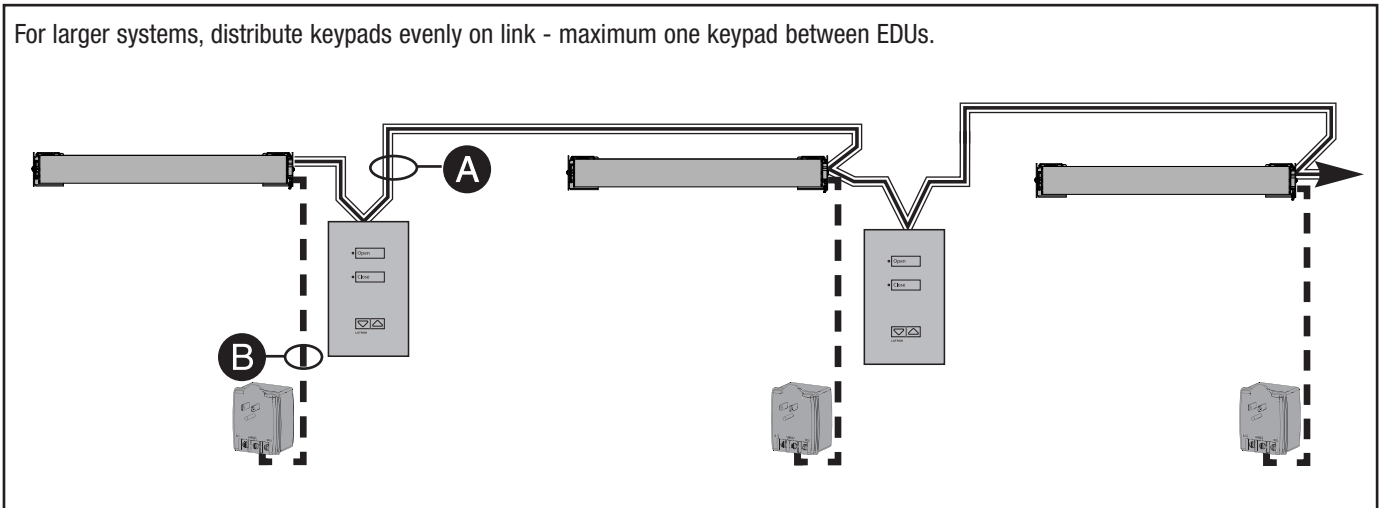
(Maximum of one Sivoia QED power panel per 15 amp circuit).

Note: Power panel must be properly earth-grounded.

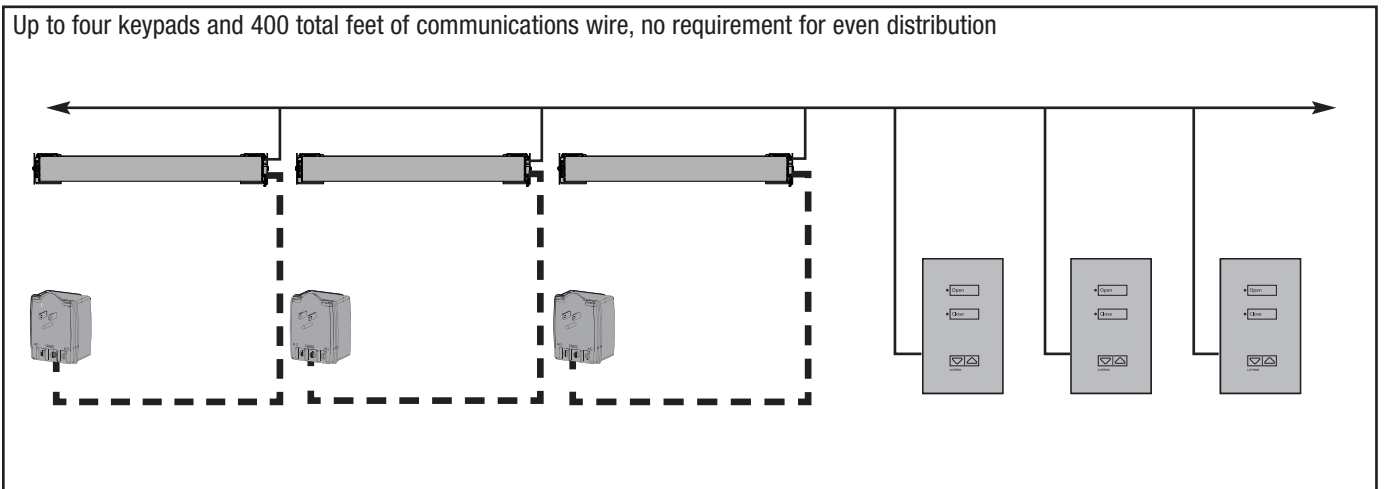
Note: All internal components of the Sivoia QED Power Panel are pre-wired at the factory.

multiple EDUs | individual transformers | overview

For larger systems, distribute keypads evenly on link - maximum one keypad between EDUs.



Up to four keypads and 400 total feet of communications wire, no requirement for even distribution



A Communications Link
4 Conductor #18AWG (twisted and shielded)

Maximum Wire Length
EDU to EDU - 500 feet
Maximum total communication link - 4000 feet

B Power Supply
3 Conductor #16-20AWG

Maximum Wire Length
Transformer to EDU
#16AWG - 200 feet
#18AWG - 150 feet
#20AWG - 100 feet

Wire Legend

- A** Comm Link (shielded)
- B** Power
- C** SVQ-CBL-250
- D** HW/GRX Link
- E** Line Voltage

See page 3.12 for details

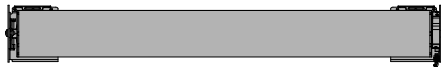
multiple EDUs | individual transformers | detail

- Every keypad, CCI, and EDU is connected by the Sivoia QED™ Communication Link.
- Wire each EDU to a Sivoia QED plug-in transformer, junction-box-mount transformer, or a Sivoia QED power panel.
- Each EDU must be EARTH grounded.
- Each transformer, of any type, can power ONLY ONE EDU, regardless of shade size.

Wire Legend

- A** Comm Link (shielded)
- B** Power
- C** SVQ-CBL-250
- D** HW/GRX Link
- E** Line Voltage

See page 3.12 for details



female EDU connector



female EDU connector

