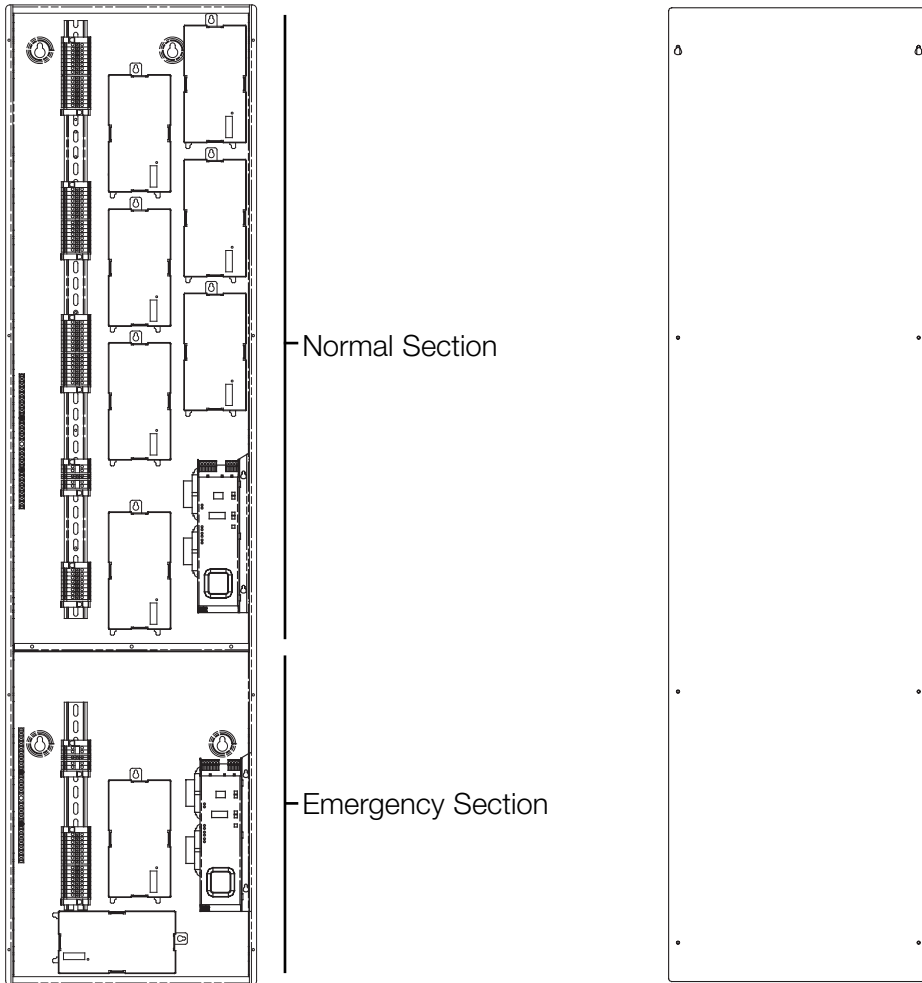


Combination Normal/Emergency Softswitch® Panel – Feed-Through Only

Standard-size *Softswitch* feed-through panels are available with internal separation allowing normal and emergency circuits to be wired into the same enclosure. Normal circuits are wired into the top section of the enclosure. Emergency circuits are wired into the bottom section of the enclosure. Each section is controlled by its own *Softswitch* controller, and the sections are considered as separate panels during system programming.

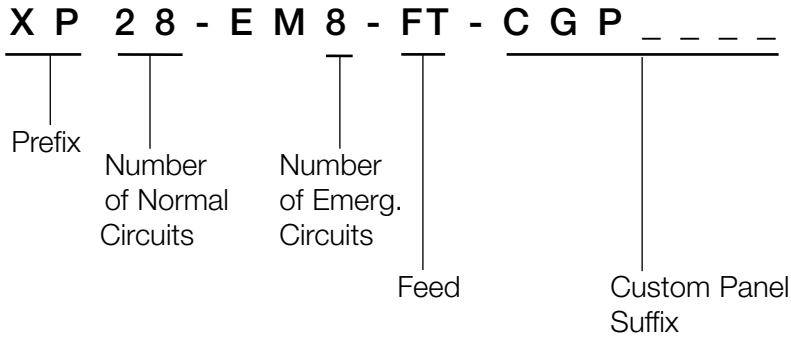


Combination
Normal/Emergency
Softswitch Panel

Panel with cover

<p>Job Name:</p>	<p>Model Numbers:</p>
<p>Job Number:</p>	

How to Build a Model Number for Combination Normal/Emergency Softswitch® Panel



Prefix

XP for *Softswitch* panels

Number of Normal Circuits

Total number of normal circuits (switch legs) in the panel

Number of Emergency Circuits

Total number of emergency circuits (switch legs) in the panel

Feed

FT for feed-through panels

Custom Panel Suffix

Indicates panel with special options

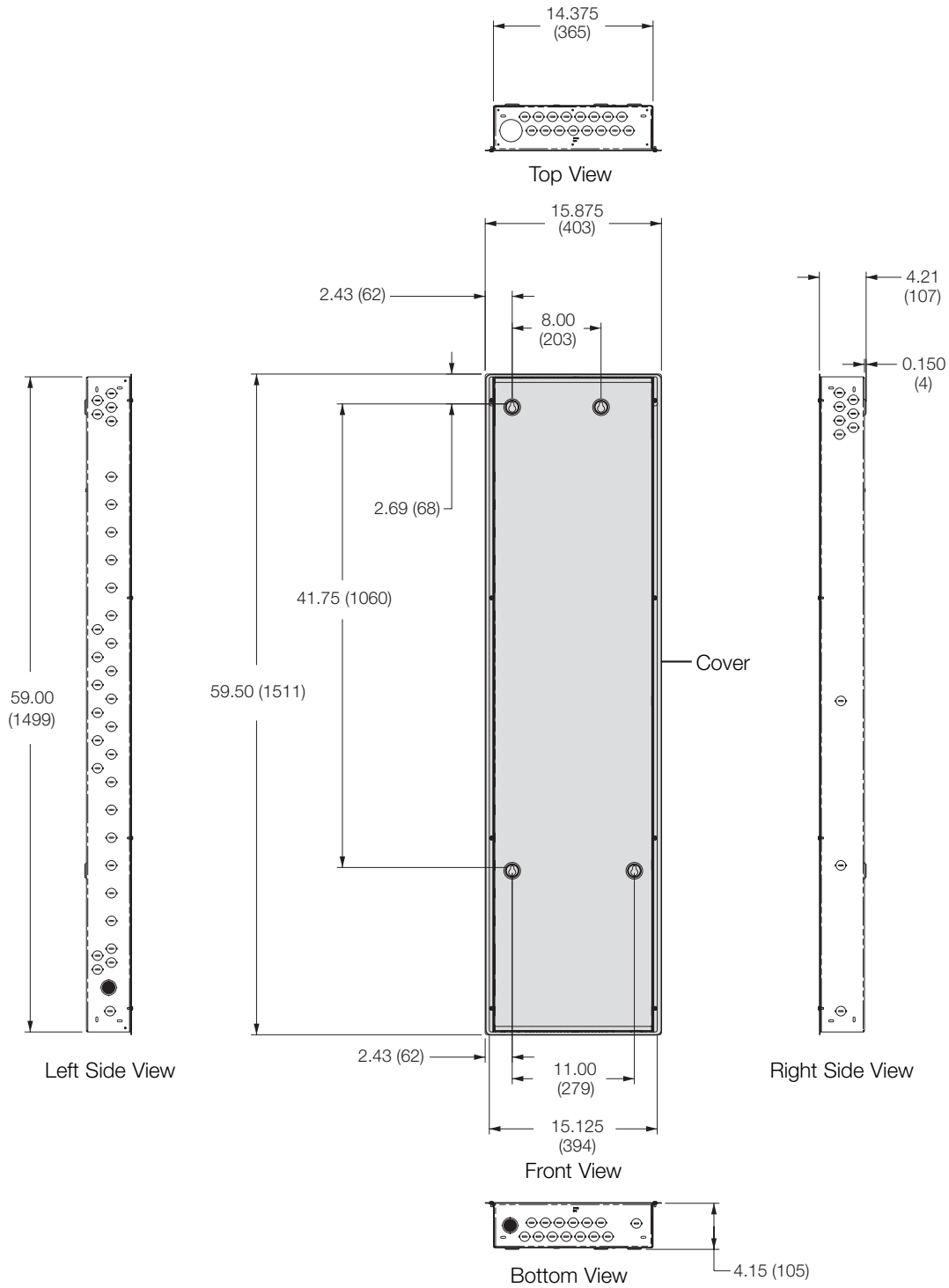
Combination Normal/Emergency Softswitch® Panel Models

Combination Normal/Emergency *Softswitch* Feed-Through Panels for 120/277 V~

Normal Switch Legs	Emergency Switch Legs	Feed Type	Maximum Feed
4	4 or 8		
8	4 or 8		
12	4 or 8	Feed-through	20 A
16	4 or 8		
20	4 or 8		
24	4 or 8		
28	4 or 8		

Job Name:	Model Numbers:
Job Number:	

Combination Normal/Emergency Softswitch® Panel Dimensions



All dimensions in inches (mm).

<p>Job Name:</p>	<p>Model Numbers:</p>
<p>Job Number:</p>	

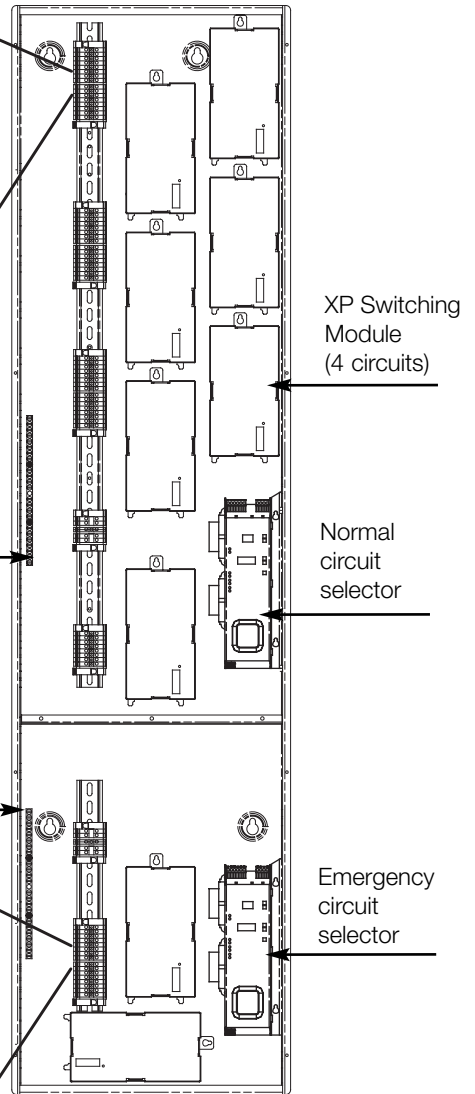
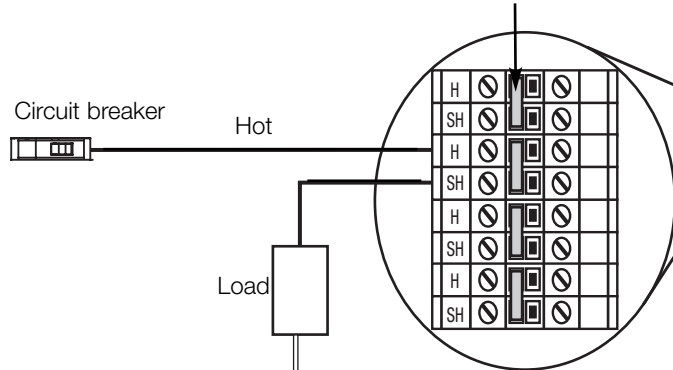
Combination Normal/Emergency Softswitch® Panel Wiring Overview

Wire as shown. Use a trough when the *Softswitch* panel is not adjacent to a distribution panel. Splice Neutrals in trough.

Do not remove bypass jumpers until load wiring is verified.

Switched load Wiring: Normal power section

Each switched circuit requires a dedicated 20 A circuit breaker and feed wiring to/from a normal power distribution panel, by others.

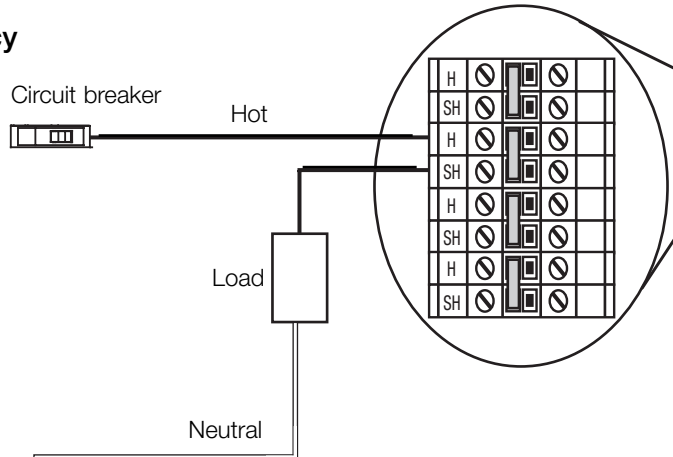


Wire Sizes

- 14 AWG (2.5 mm²) to 10 AWG (4.0 mm²) for feed wiring and switched load wiring
- Power (Hot/Live) and switched Hot/Live connect directly to terminal block for switch legs

Switched load Wiring: Emergency power section

Each switched circuit requires a dedicated 20 A circuit breaker and feed wiring to/from an emergency power distribution panel, by others.

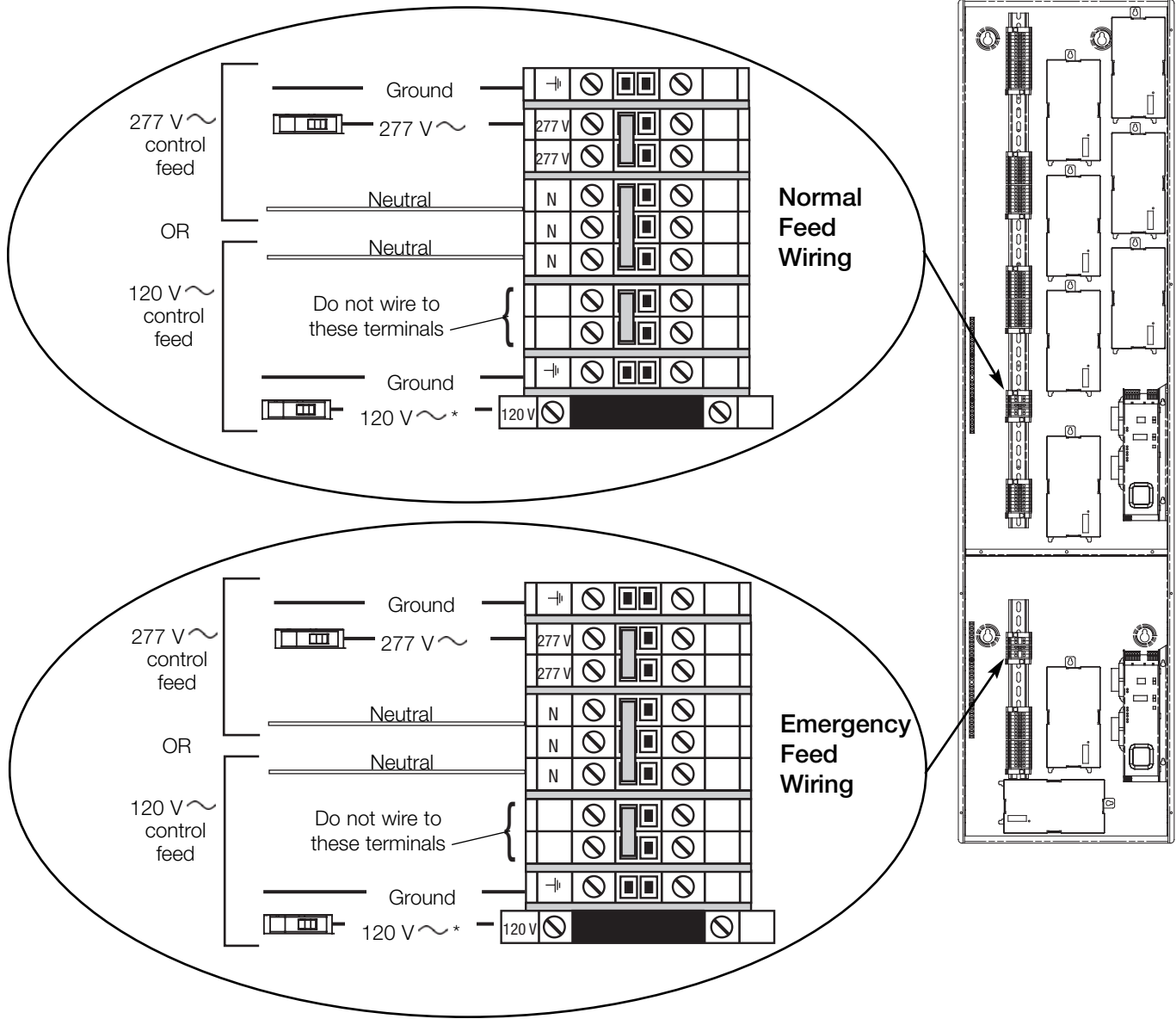


Job Name:	Model Numbers:
Job Number:	

Combination Normal/Emergency Softswitch® Panel Dual-Voltage Control Feed Wiring

Combination Normal/Emergency *Softswitch* Panels are dual-voltage type and may be fed with either 120 V~ or 277 V~.

Wire to either the 120 V~ or the 277 V~ control feed terminals, not both. The terminals for the unused voltage will remain empty.



* Note: 120 V~ Hot terminal is protected by an internal fuse in case 277 V~ is mistakenly applied. A spare fuse is also supplied in the panel.

Job Name:	Model Numbers:
Job Number:	

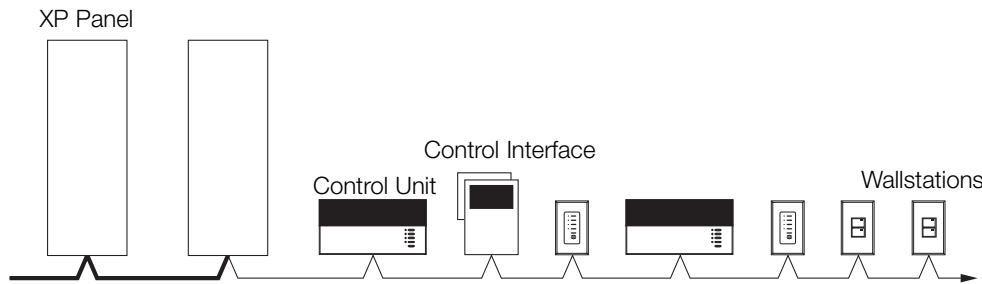
PELV (Class 2: USA) Wiring Overview for Combination Normal/Emergency Softswitch® Panel

System communications use low-voltage PELV (Class 2: USA) wiring.
 Wiring must be daisy-chained.
 Wiring must run separately from line (mains) voltage.

GRAFIK Eye® 4000 System

PELV (Class 2: USA) wiring link requires:
 Two 12 AWG (2.5 mm²) conductors for control power.
 One twisted, shielded pair of 18 AWG (1.0 mm²) for data link.
 One 18 AWG (1.0 mm²) conductor for Emergency (Essential) sense line, from panel to panel.

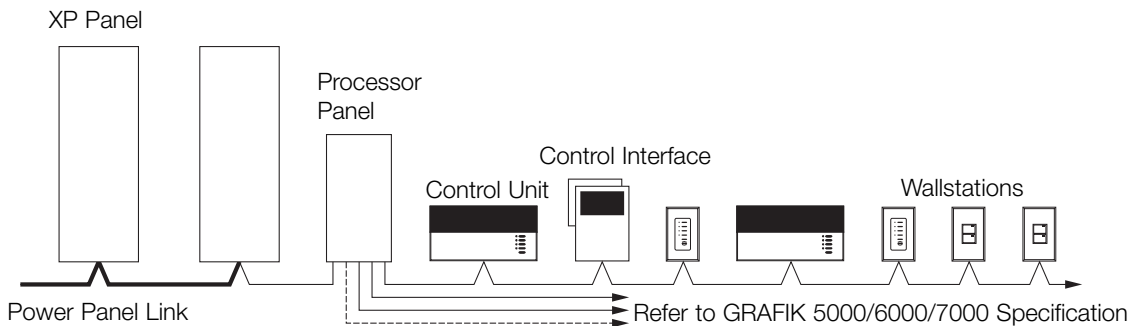
Total length of control link may be no more than 2,000 ft. (610 m).
 Approved low-voltage cable is available from Lutron,¹ Belden, and Liberty. These are approved with 22 AWG data link wires.



GRAFIK 5000™/6000®/7000® System

PELV (Class 2: USA) wiring link requires:
 Two 12 AWG (2.5 mm²) conductors for control power.
 One twisted, shielded pair of 18 AWG (1.0 mm²) for data link.
 One 18 AWG (1.0 mm²) conductor for emergency (essential) sense line, from panel to panel.

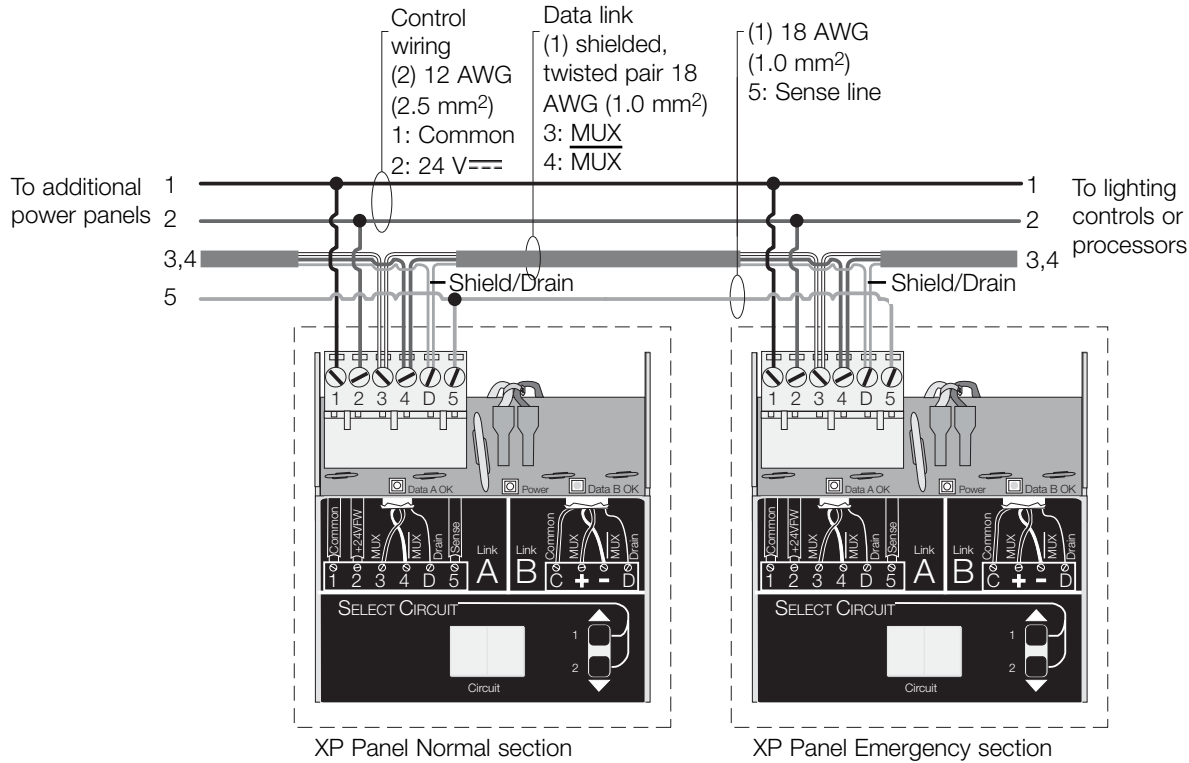
Total length of control link may be no more than 2,000 ft. (600 m).
 If MUX-RPTR interface and GRX-CBL-46L cable¹ is used, length may be up to 4,000 ft. (1200 m).



¹ GRX-CBL-46L PELV (Class 2: USA) wiring cable is available from Lutron and contains:
 Two 12 AWG (2.5 mm²) conductors for control power.
 One twisted, shielded pair of 22 AWG (0.625 mm²) for data link.
 One 18 AWG (1.0 mm²) conductor for emergency (essential) sense line.

Job Name:	Model Numbers:
Job Number:	

PELV (Class 2: USA) Panel-to-Panel Wiring for Combination Normal/Emergency Softswitch® Panel

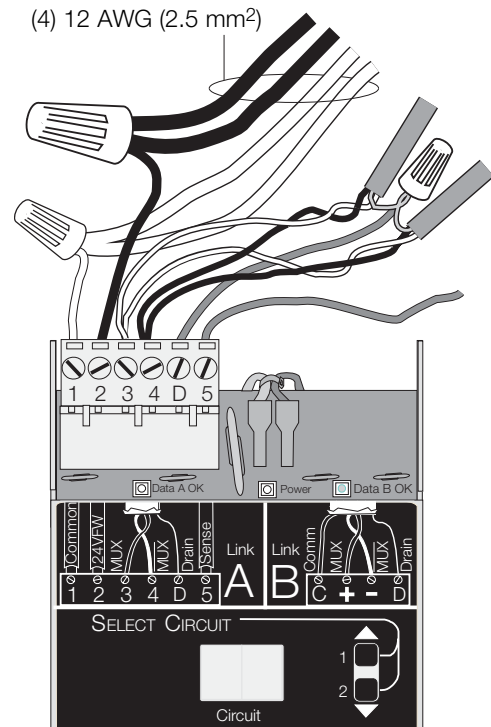


Notes:

- Emergency power: The additional 18 AWG (1.0 mm²) wire is a “sense” line from terminal 5 of another panel. This sense line allows an Emergency (Essential) lighting panel to “sense” when Normal (Non-Essential) power is lost. If more than one Emergency lighting panel needs to sense from a specific normal panel, a dedicated wire between each pair of Normal (Non-Essential) and Emergency (Essential) panels may be required.
- Shield/Drain: Connect shielding as shown. Do not connect to Ground (Earth) or circuit selector. Connect the bare drain wires and cut off the outside shield.

PELV (Class 2: USA) Terminal Connections

Each low-voltage PELV (Class 2: USA) terminal can accept only two 18 AWG (1.0 mm²) wires. Two 12 AWG (2.5 mm²) conductors will not fit. Connect as shown.



Job Name:	Model Numbers:
Job Number:	