

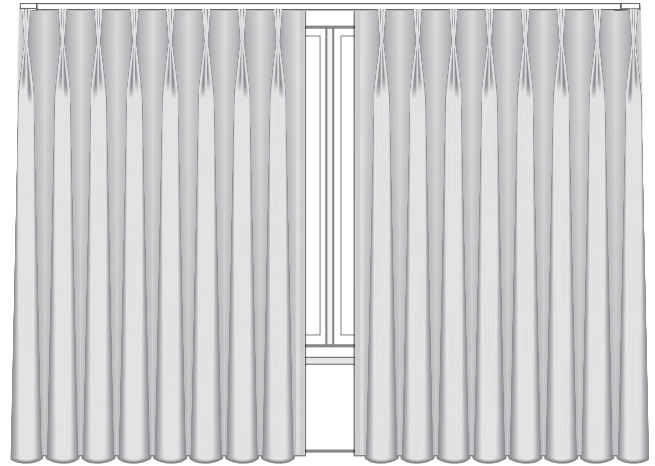
Alena | Drapery System

The Alena Drapery System is an easily installed, low-cost window treatment solution designed for the hospitality and multi-dwelling market. Guests have several options for convenient control via Lutron remote controls and keypads, or by pulling the drapery panel in the direction they want it to move. If a user is unaware of the control device, they will learn of the drapery's motorization when they manually pull on the panel. The drive will take over and move the panel automatically to its Open or Close limit.

Features

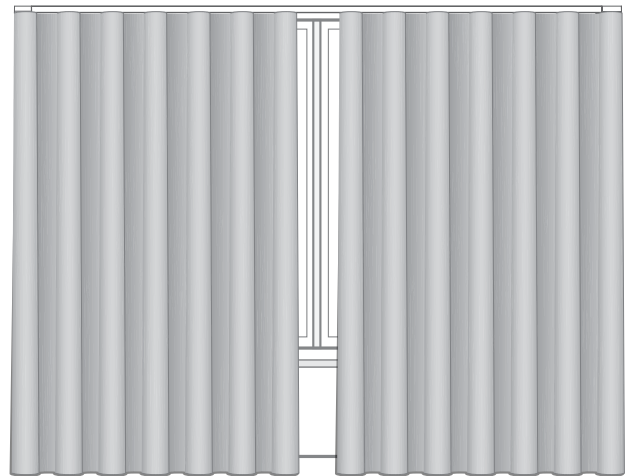
- Pull-to-Start function* allows for motorized operation with or without controls
- Ultra-quiet drive operation: will not exceed 50 dBA measured 3 ft (1 m) from the drive
- Simple plug-and-play installation with no programming required
- Drapery can be stopped while moving with the touch of any button on a keypad
- All drives start, move, and stop smoothly and quietly
- Can be installed in new construction or retrofit application
- Pinch Pleat and Ripplefold options
- Decouples the EDU and track into two separate components, allowing the EDU to be replaced or upgraded in the field
- Low-voltage, DC power
- 8 year limited warranty

* For reliable Pull-to-Start performance, grasp the draw edge of the drape no more than 5 ft (152 cm) from the top, and pull in the direction of desired travel



Alena Pinch Pleat Drapery System

for illustrative purposes only; not a system specification drawing



Alena Ripplefold Drapery System

for illustrative purposes only; not a system specification drawing

Job Name:

Model Numbers:

Job Number:

Specifications

Power

- PELV/NEC Class 2, 24-36 V $\overline{=}$ power supply required.
- Control system power supply offers (spike and brownout) over voltage protection (+/- 10% of line voltage) for all devices in the system.
- Power must be derived from a compatible Lutron 35 V $\overline{=}$ power supply (WIN-PS-1-35V), sold separately.

Controls

- The Alena EDU accepts dry contact closure inputs
- Up to 2 Alena Drives can be controlled with a Two Group Standalone Keypad
- Up to 2 Alena Drives can be controlled with a QSE-IO Contact Closure Interface
- Drives can be assigned to different keypad groups by rewiring

System Capacity

- Maximum of 1 drive per contact closure output
- Maximum of 1 drive per power supply

Performance

- Uses steel-reinforced high-strength, low-friction belt to reduce noise and drag
- Supports drapery panels weighing up to 80 pounds (36.3 kg)
- Integrates with all third party CCI keypads, switches, and devices
- Can be controlled from multiple locations (i.e. manually at drape, or via keypad), and allows for operation when power is not available
- All system components are Electro Static Discharge (ESD) protected
- Track length up to 216 in (5486 mm)

System Weight Capacity

Use this table to determine the maximum pinch pleat or ripplefold drapery panel size the Alena drapery system can operate, based upon height and weight.

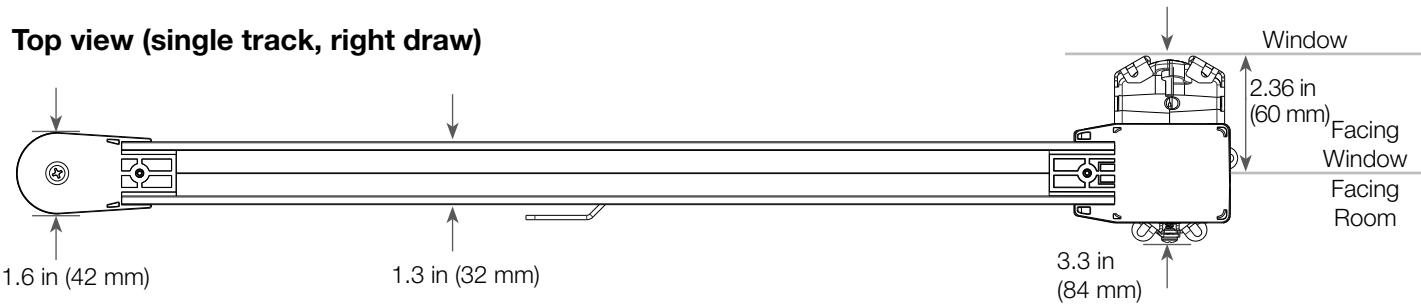
| System Capacity | | |
|---------------------------------------|------------------|------------------|
| System Width - Straight Track | Pinch Pleat | Ripplefold |
| 24 in to 32 in (600 mm to 800 mm) | 20 lbs (9 kg) | 20 lbs (9 kg) |
| 32 in to 44 in (800 mm to 1100 mm) | 30 lbs (13.6 kg) | 30 lbs (13.6 kg) |
| 44 in to 56 in (1100 mm to 1400 mm) | 40 lbs (18 kg) | 40 lbs (18 kg) |
| 56 in to 68 in (1400 mm to 1700 mm) | 55 lbs (24.9 kg) | 45 lbs (20.4 kg) |
| 68 in to 84 in (1700 mm to 2133 mm) | 65 lbs (29.5 kg) | 45 lbs (20.4 kg) |
| 84 in to 108 in (2133 mm to 2743 mm) | 80 lbs (36.3 kg) | 45 lbs (20.4 kg) |
| 108 in to 132 in (2743 mm to 3353 mm) | 80 lbs (36.3 kg) | 45 lbs (20.4 kg) |
| 132 in to 156 in (3353 mm to 3962 mm) | 80 lbs (36.3 kg) | 45 lbs (20.4 kg) |
| 156 in to 216 in (3962 mm to 5486 mm) | 80 lbs (36.3 kg) | 45 lbs (20.4 kg) |

IMPORTANT: The sizes and weight capacities shown above are applicable to straight track only. For assistance with curved track or configurations exceeding the sizes or weights listed, please contact Lutron Customer Service.

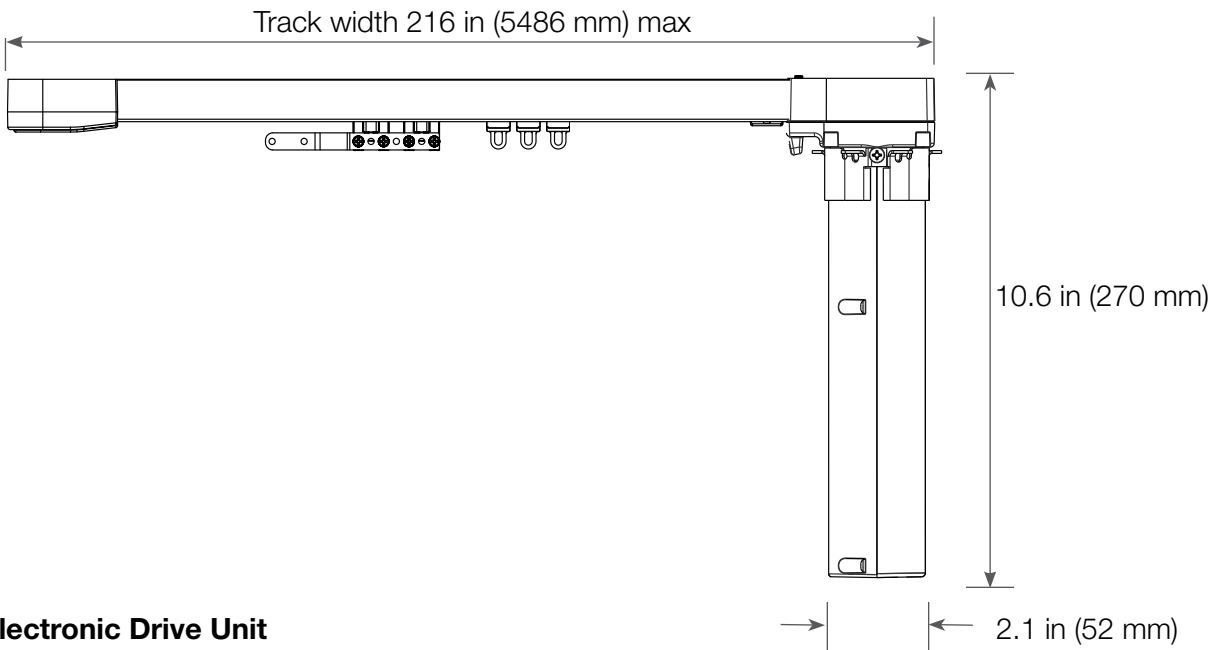
| | |
|-------------|----------------|
| Job Name: | Model Numbers: |
| Job Number: | |

System dimensions (pinch pleat carriers shown; ripplefold snap-pendants available)

Top view (single track, right draw)

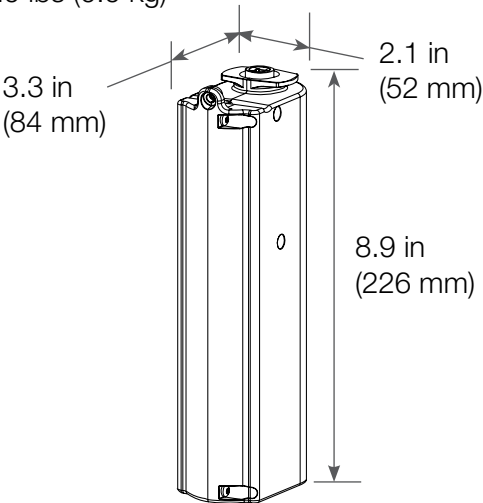


Front view (single track, right draw)



Electronic Drive Unit

1.9 lbs (0.9 kg)

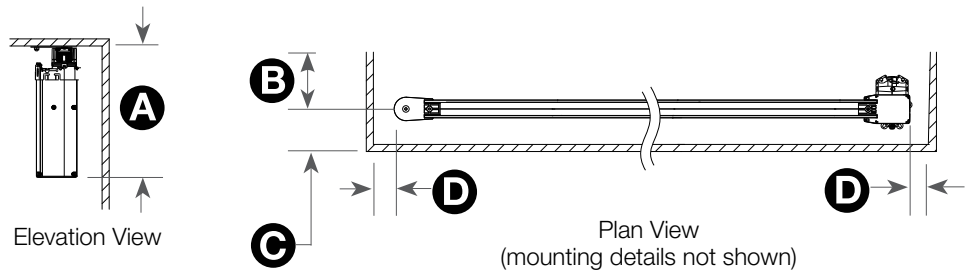


| | |
|-------------|----------------|
| Job Name: | Model Numbers: |
| Job Number: | |

Installation Clearances

Single drapery track system

Maintain enough clearance between the drapery track and the inside face of the top treatment or ceiling recess to allow the fabric to move freely.

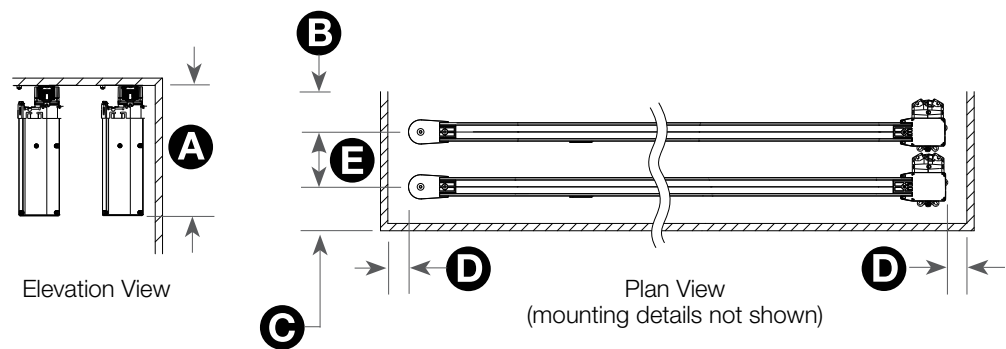


Dimensions*

- A 11.25 in (286 mm)
- B 3.5 in (89 mm)
- C 2.5 in (64 mm)
- D 1 in (25 mm)

Dual drapery track system

Two Alena drapery tracks can be used for a combination sheer/blackout treatment.



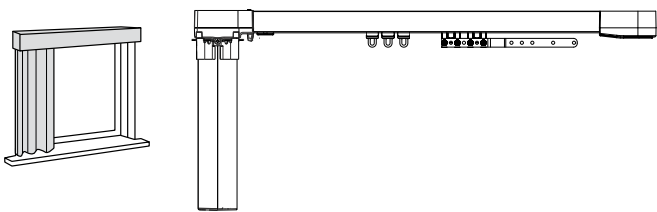
Dimensions*

- A 11.25 in (286 mm)
- B 3.5 in (89 mm)
- C 2.5 in (64 mm)
- D 1 in (25 mm)
- E 5.5 in (140 mm)

Drapery track options (valance and drapery not included)

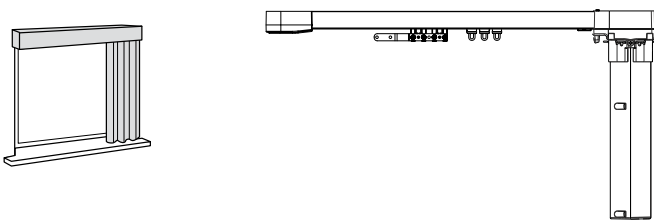
Left draw/left-mounted EDU

(pinch pleat carriers shown; ripplefold snap-pendants available)

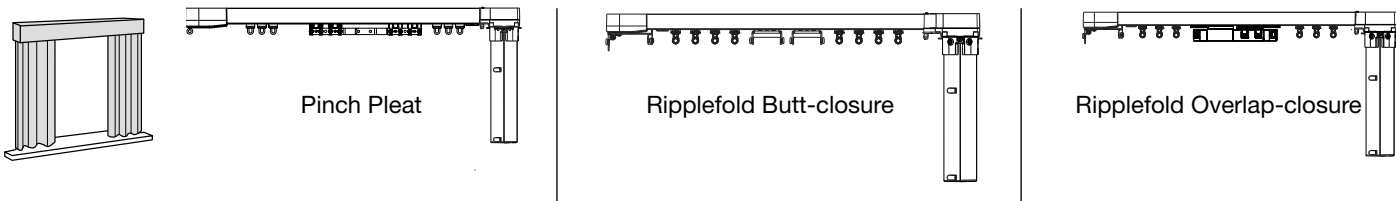


Right draw/right-mounted EDU

(pinch pleat carriers shown; ripplefold snap-pendants available)



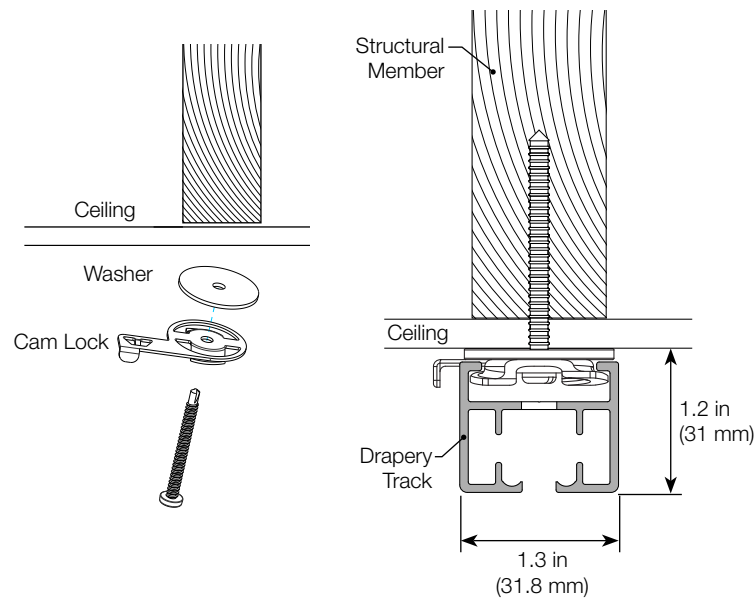
Center-draw, left-or right-mounted EDU



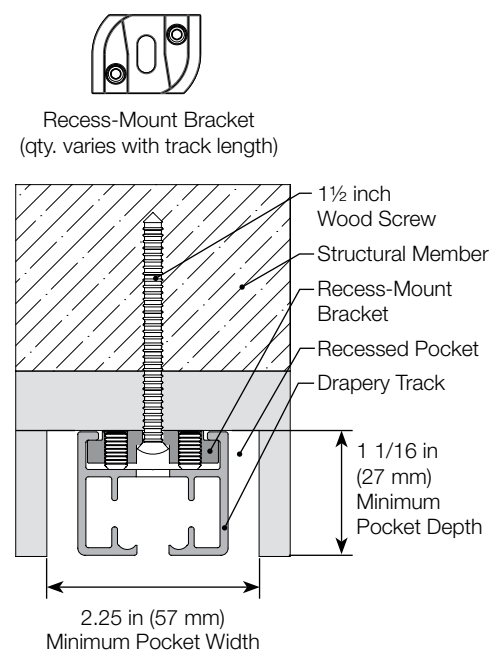
| | |
|-------------|----------------|
| Job Name: | Model Numbers: |
| Job Number: | |

Mounting Options

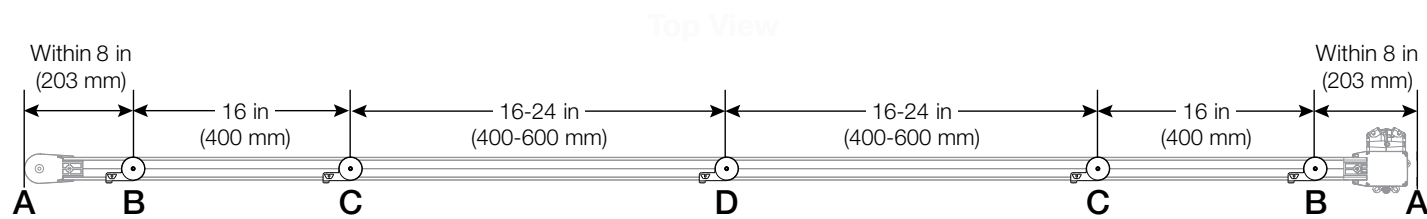
Ceiling Mount



Recess Mount

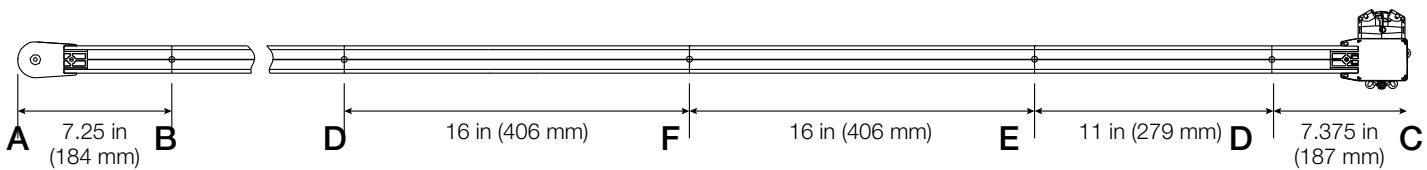


Cam Lock Spacing - Ceiling Mount



1. Mount a cam lock (B) within 8 in (200 mm) of each end of the system (A).
2. Mount the next cam locks (C) 16 in (400 mm) inward from each end cam-lock (B).
3. Space the remaining cam locks (D) 16-24 in (406-610 mm) apart.
4. For non-shear fabric panels, 16 in (406 mm) spacing is recommended between cam locks at stackback location(s).

Bracket Spacing - Recess Mount



1. Install a recess-mount bracket (B) within 7.25 in (184 mm) of the idler end of the system (A).
2. Install a recess-mount bracket (D) within 7.375 in (187 mm) of the drive end of the system (C).
3. Install the next recess-mount bracket (E) 11 in (279 mm) inward from the first drive-end recess-mount bracket (D).
4. Space the remaining recess-mount brackets (F) 16 in (406 mm) apart.

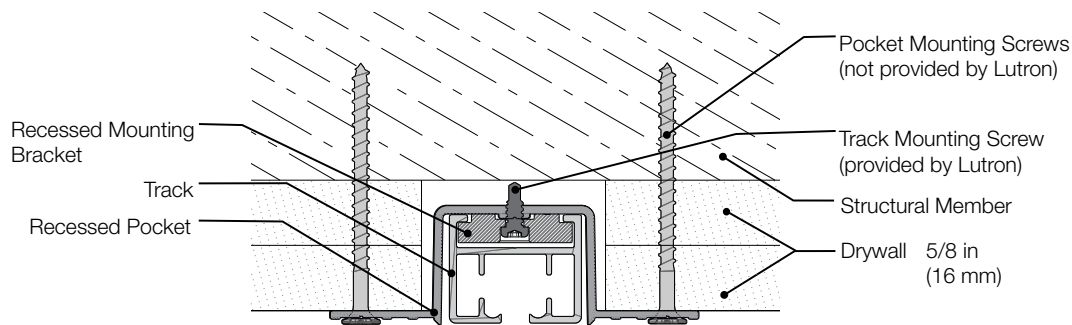
| | |
|-------------|----------------|
| Job Name: | Model Numbers: |
| Job Number: | |

Recessed System Features

- Mud-in flanges along the recessed system to be integrated flush with the ceiling
- Intended for 5/8 in (16 mm) double layer drywall*
- EDU and idler end caps are designed to fit the drapery track with a minimal 1/16 in (1.6 mm) reveal along the track
- Recessed pocket, 8 ft (2.4 m) in length, can be cut to size
- Tape measure slots on the end caps ensure proper fit
- Installation tool ensures the track is centered within the recessed system and protect the track paint during track installation
- Straight track only

* Refer to Application Note #843 (P/N 048843) for more details
<https://assets.lutron.com/a/documents/048843.pdf>

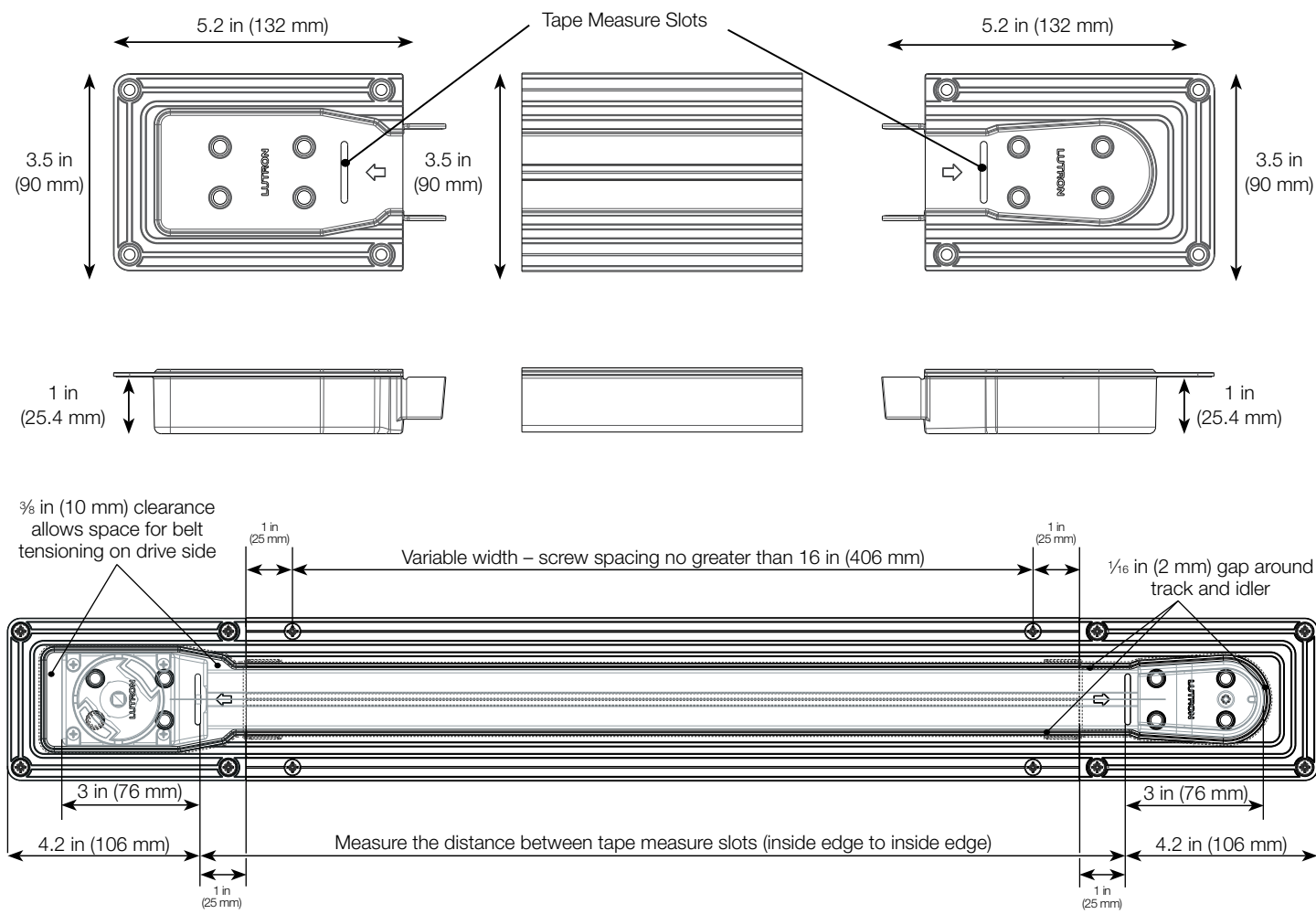
View of Recessed Mounting Bracket:



| Model Number | Description |
|------------------|---|
| WIN-DREC-TRIM-WH | Recessed drapery pocket extrusion 8 ft (2.4 m), White |
| WIN-DREC-TOOL | Recessed drapery installation tool |
| WIN-DREC-ENDS | EDU and idler end caps kit |
| WSL-DREC-TRIM | Sample recessed drapery pocket extrusion 3 in (76 mm) |
| WSL-DREC-I | Sample recessed drapery idler end cap |
| WSL-DREC-D | Sample recessed drapery drive EDU end cap |
| WIN-DRBMS-10-RPL | Track mounting screws for recessed system, 10 pack |

| | |
|-------------|----------------|
| Job Name: | Model Numbers: |
| Job Number: | |

Recessed System (continued)



Sizing:

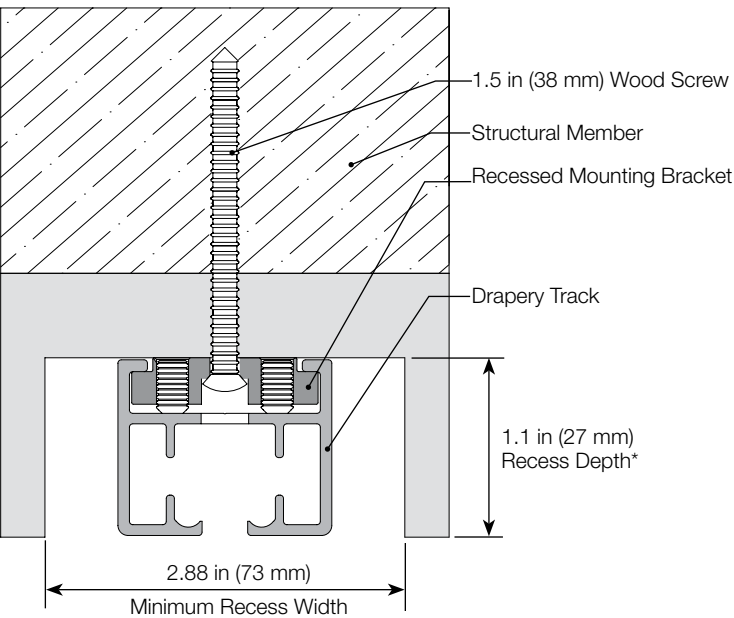
1. A consistent 1/16 in (2 mm) gap is around the idler and track. Fabric can be wrapped to cover the larger gap on the drive side to allow for expected variance in drapery system width.
2. Lutron recommends ordering the track after the pocket is installed. Once the pocket is installed, measurements of the pocket will account for variance in installation.
3. Track length = tape measure slot distance + 6 in (152 mm).
4. Recessed Pocket cut width = Ordered track width - 8 in (203 mm).
5. Recessed Pocket cut width = tape measure slot distance - 2 in (51 mm).

Mounting:

1. The recessed pocket must be mounted to structural members no further than every 16 in (406 mm).
2. All recessed pockets must be attached to at least 2 structural members.
3. The track is to be joined to the pocket using Lutron's recessed mounting bracket and the provided screws. A recessed mounting bracket must be installed at each predrilled mounting hole.

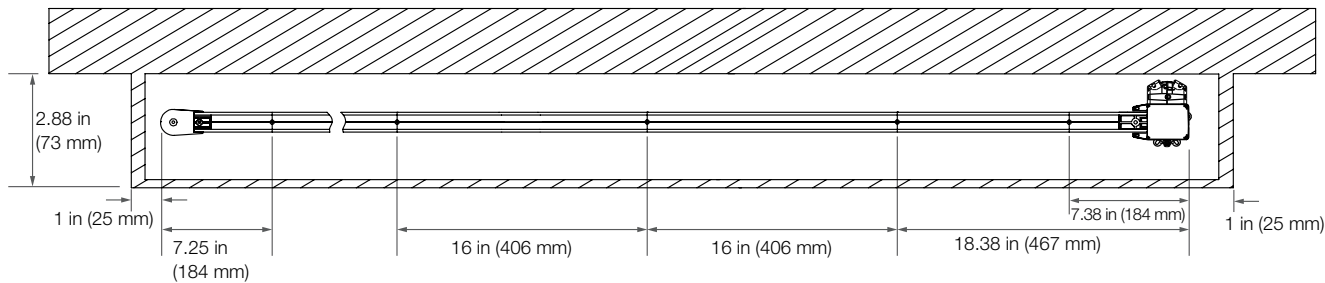
Recessed Mount Bracket

Mounting with wood screw



* Provides complete concealment of the track while maintaining proper clearance for the drapery fabric below the recess. A deeper recess will require additional width to clear the drapery fabric.

The track is predrilled with mounting holes, spaced as indicated below. A recessed mounting bracket must be installed at each predrilled mounting hole.



For curved tracks: It is recommended recessed pockets are built/finished after receiving the product to verify fit due to expected manufacturing tolerances for curved tracks.

Installations that violate these clearance recommendations have not been evaluated for installation and performance.

Fabric Fullness

Generally, drapery “fullness” is the aesthetic result of adding more or less fabric to a given system width. Lutron expresses fullness as a multiple (pinch pleat; 2x, 2.5x, 3x) or percentage (ripplefold; 80%, 100%, 120%) of (flat) fabric panel width, relative to system (track) width.

- Lower fullness results in smaller stackback size when open and more spread when closed.
- Higher fullness results in larger stackback size when open and less spread when closed.

Pinch Pleat Fabric Fullness

Pinch pleat drapery panels are offered at 3 fullness ratings:

- **3x:** fabric panel width (before pleating) = track width x 3 (sheer fabrics only)
- **2.5x:** fabric panel width (before pleating) = track width x 2.5
- **2x:** fabric panel width (before pleating) = track width x 2

Note: Due to potential variations in final pleating, Lutron intentionally over-estimates the number of auxiliary carriers provided with pinch pleat drapery track systems. Extra carriers may be included.

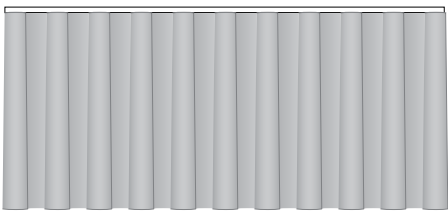
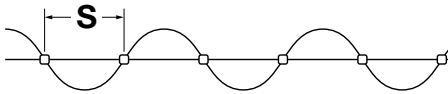
Ripplefold Fabric Fullness

Fullness is determined by the string length between auxiliary carriers (S) and the total width of the fabric panel.

Lutron offers fullness ratings of 80%, 100%, and 120%, based on standard snap spacing of 4.25 in (108 mm). (See ripplefold snap tape specifications on page 10.)

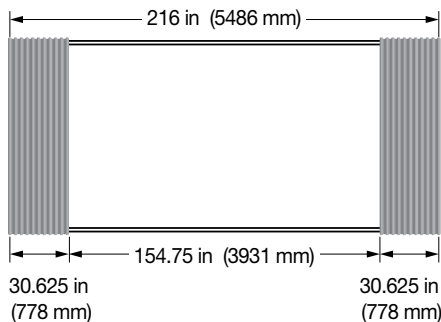
80% Fullness

Fabric panel width = track width + 80%
S = 2.375 in (60 mm)



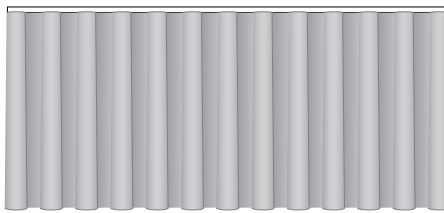
Stackback Example

(approximate; center-draw)



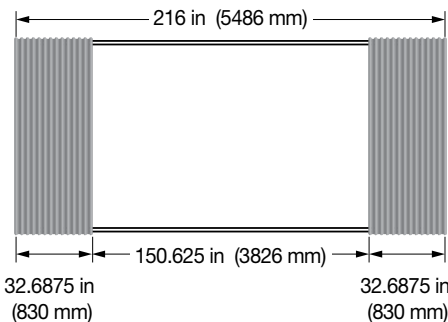
100% Fullness

Fabric panel width = track width + 100%
S = 2.125 in (54 mm)



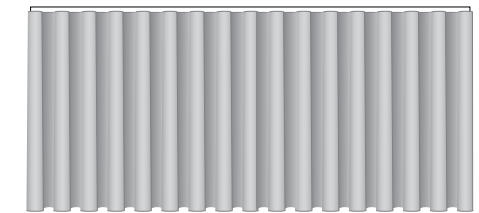
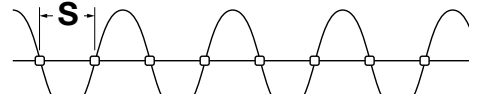
Stackback Example

(approximate; center-draw)



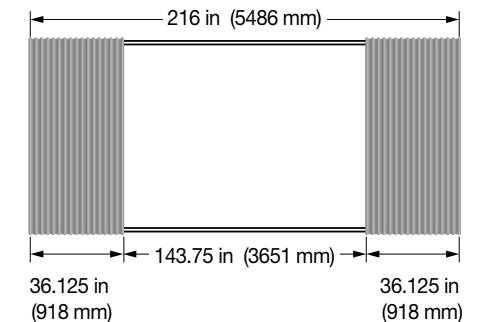
120% Fullness

Fabric panel width = track width + 120%
S = 1.875 in (48 mm)



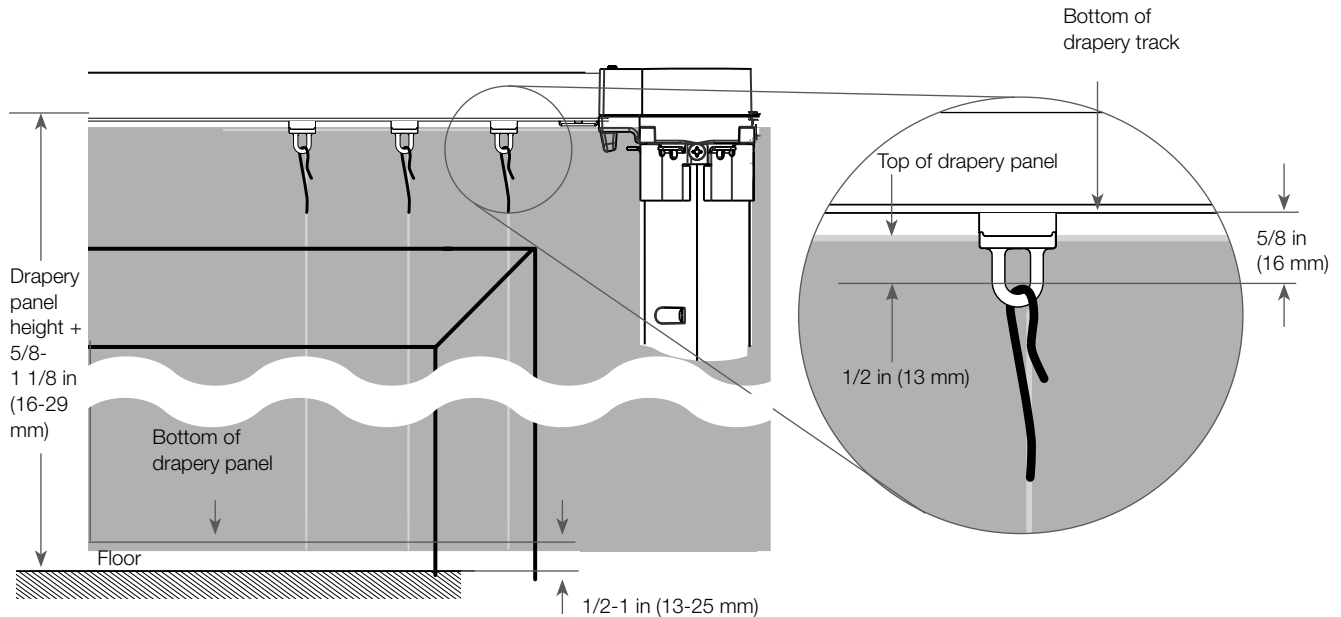
Stackback Example

(approximate; center-draw)

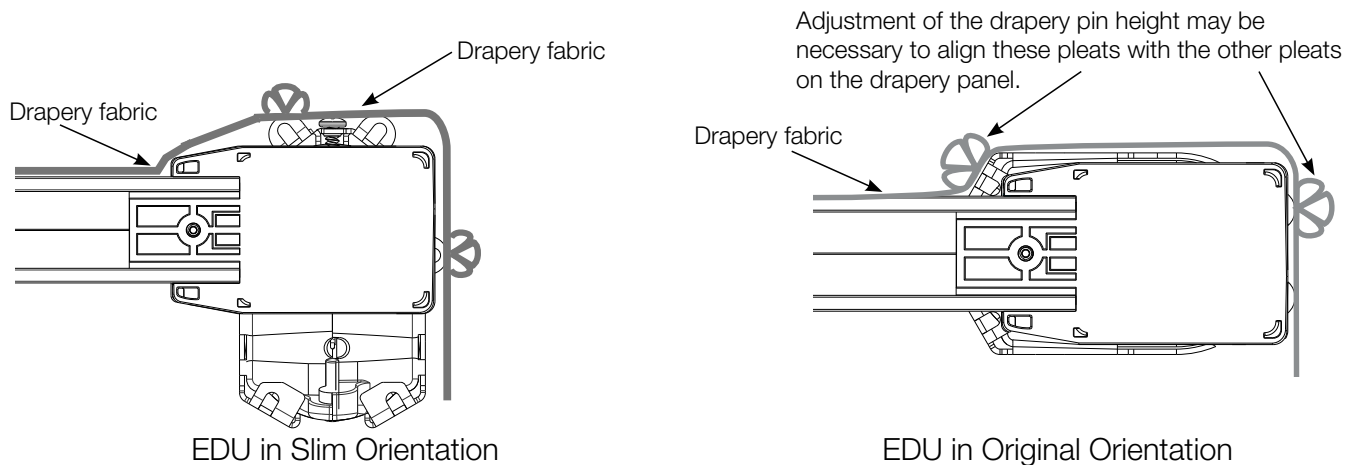


Hanging Fabric - Pinch Pleat

Lutron recommends a drapery hook setting of 1/2 in (13 mm) from the top of the drape to the top of the hook (hooks not included). This locates the drapes just below the track and prevents it from rubbing on the track. It is recommended that a distance of 1/2-1 in (13-25 mm) be maintained between the bottom of drapery panel and the floor.



Dressing the Drape Around the Drive End



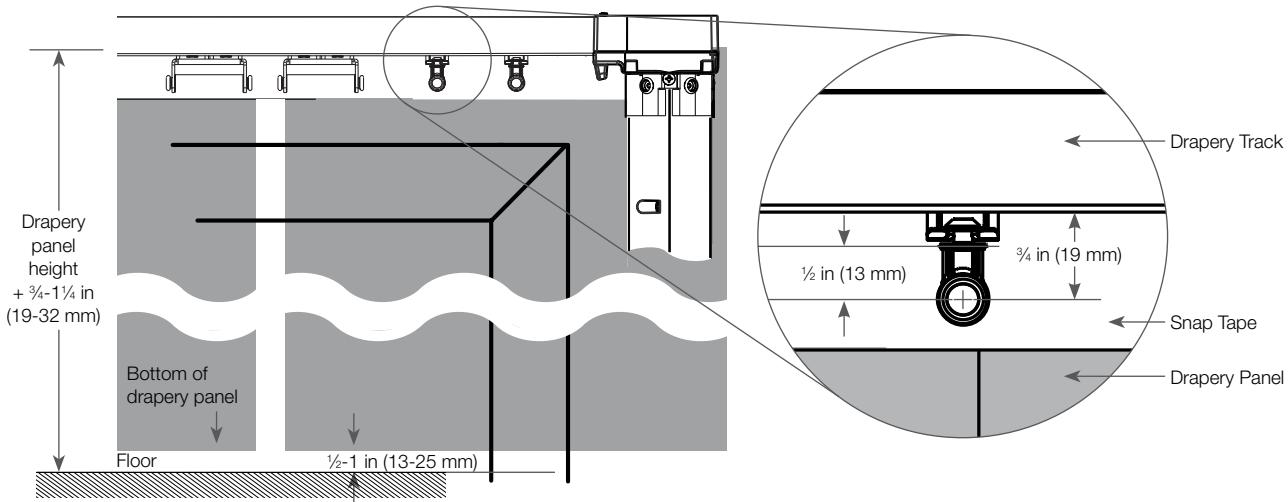
Job Name:

Model Numbers:

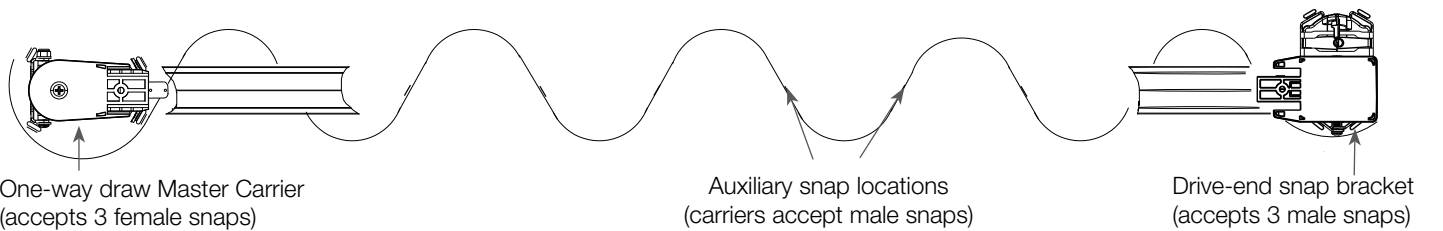
Job Number:

Hanging Fabric - Ripplefold

Drapes are typically sized so the bottom of the drapery track and top of the drapery panel are located 4 in (101 mm) above the window casing. Location may need to be adjusted to accommodate the specific drapery panel height and application. It is recommended that a space of 1/2-1 in (13-25 mm) be maintained between the bottom of drapery panel and the floor.

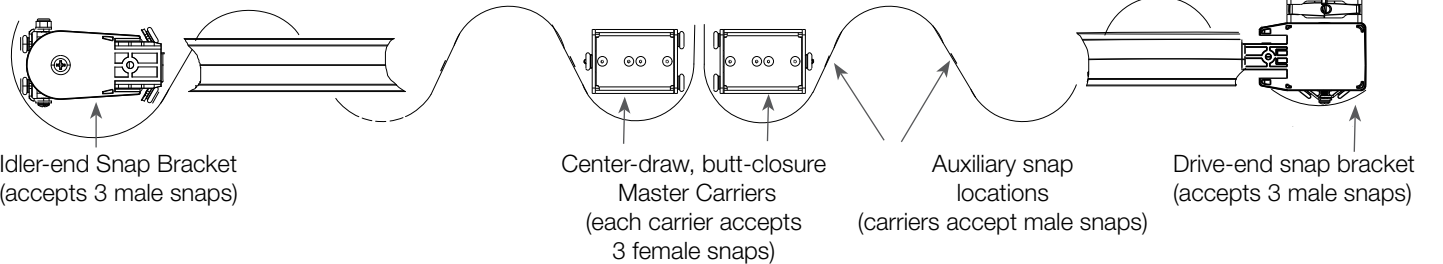


One-Way Draw

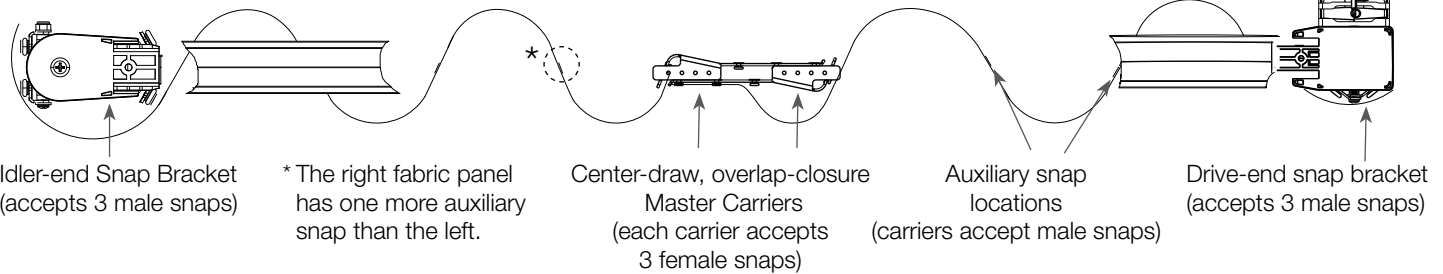


Center Draw

Butt-closure



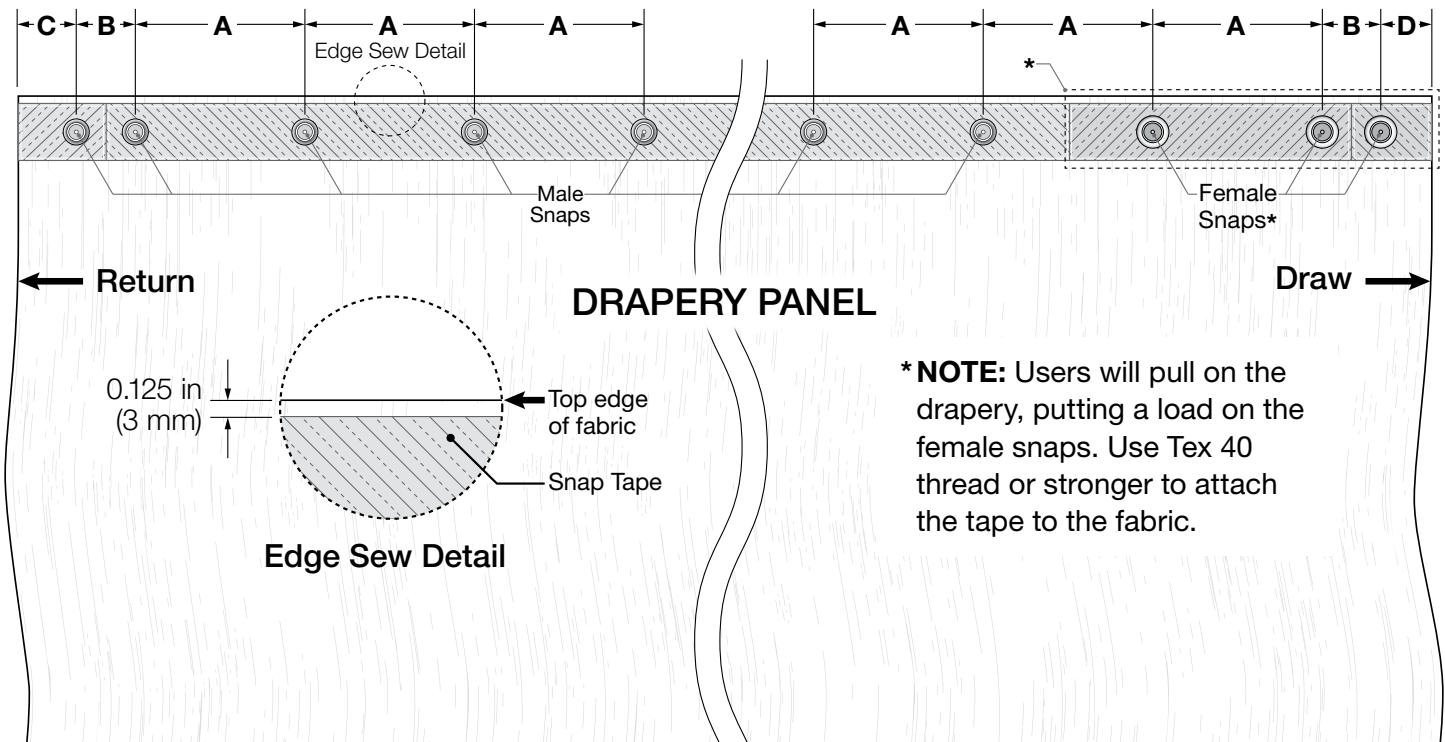
Overlap-closure



Ripplefold Snap Tape Specifications

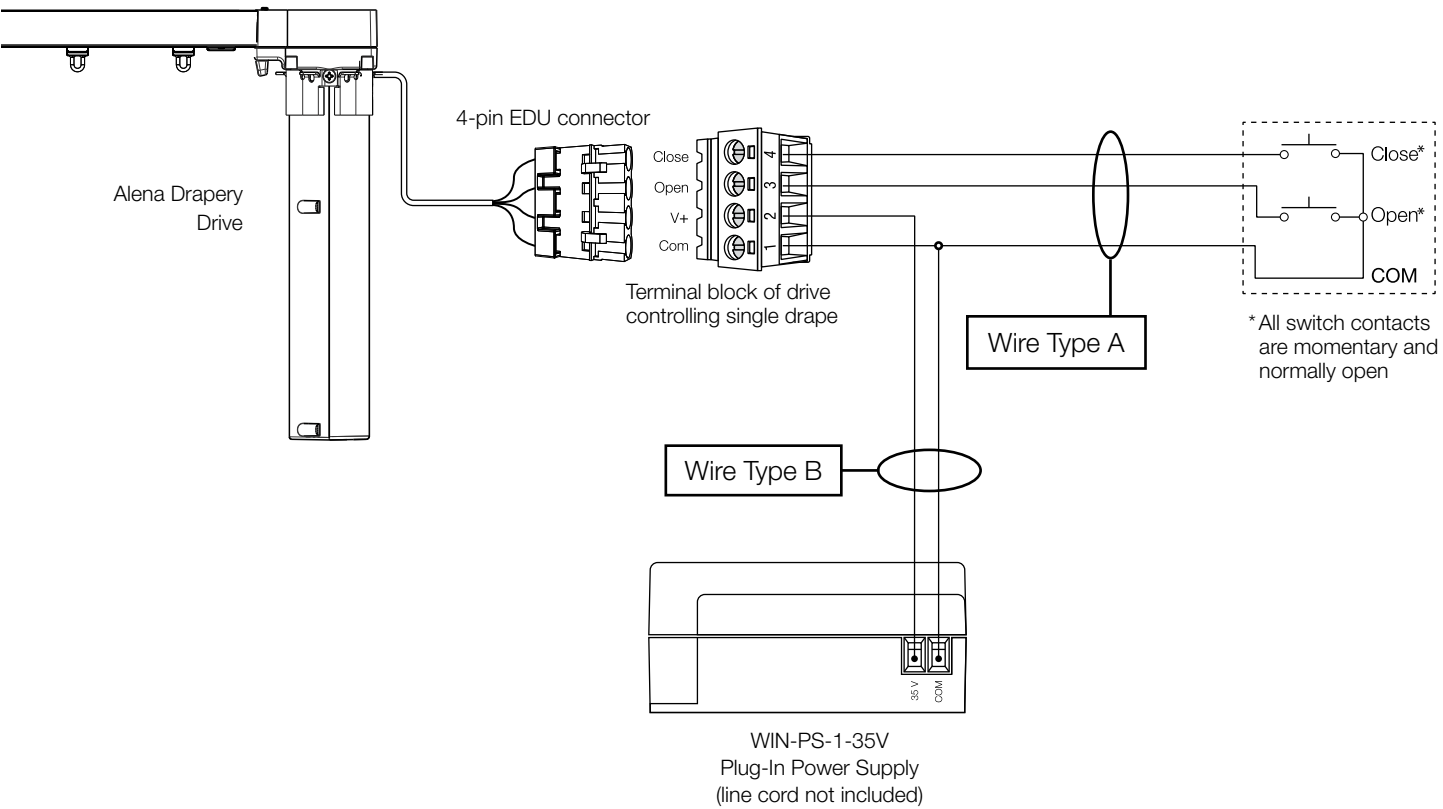
The Lutron Ripplefold Drapery System is compatible with standard ripplefold snap tape with spacing of 4.25 in (108 mm) between snaps.

- Standard carriers accept male snaps; quantity required varies with track width.
- Three (3) female snaps are required at the draw end as shown.
 - Compatible female snap tap is available from Alan Richard Textiles, Ltd.
By the yard: alanrichardtextiles.com/store/DRFT02-Y.html
By 100 yard (91.4 m) roll: alanrichardtextiles.com/store/DRFT02.html
- Single-draw configurations require one drapery panel.
- Center-draw configurations require 2 drapery panels
 - Butt-closure: snap layout shown below mirrored on the second panel.
 - Overlap-closure: the draw and return end snap layouts shown below are mirrored on the second panel, and the right panel requires one more auxiliary snap than the left. (See the Overlap-Closure diagram on previous page.)



A = Standard ripplefold snap tape spacing of 4.25 in (108 mm)
B = 1 in (25 mm)
C = Varies with return distance
D = 0.75 in (19 mm)

Alena Drapery System | Single Drive Wiring

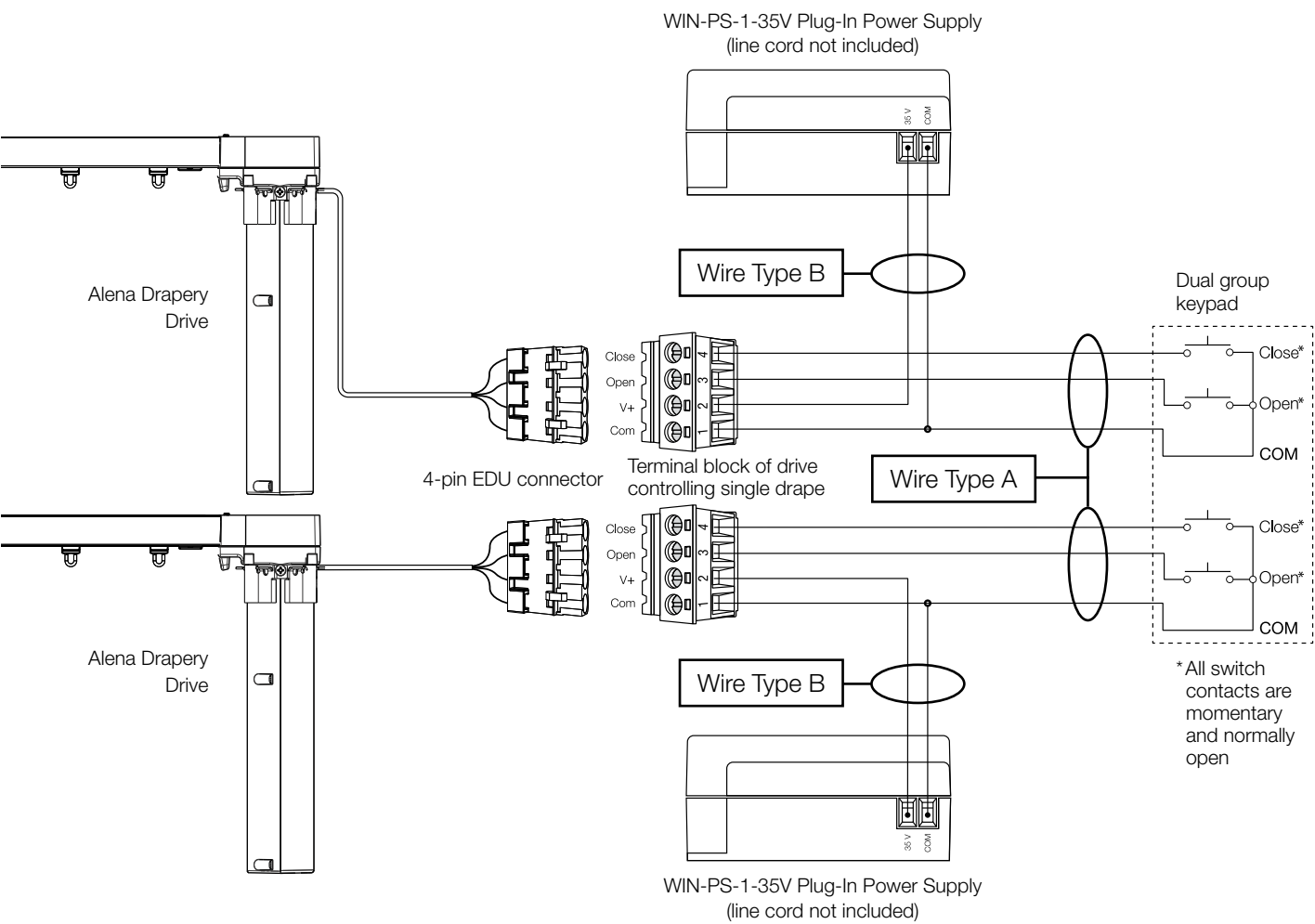


Notes:

- Standalone draperies can be controlled with a keypad, or via manual activation.
- Pressing any button on a keypad while the drape is moving will cause the drape to stop.
- The contact closure device must be capable of switching 36 V== with a minimum contact closure time of 0.25 seconds (for each link)

| Wiring types | Purpose | Wire options |
|--------------|-------------------------------------|---|
| A | Contact Closure input/output | 18-22 AWG (1.00-0.50 mm ²) per contact closure - 250 ft (75 m) max |
| B | Drive power (power supply to Drive) | 12 AWG - (4 mm ²)-250 ft (75 m) max 16 AWG - (1.5 mm ²)-100 ft (30 m) max Lutron P/N QSHY-CBL-M-1000 Non-plenum Lutron P/N QSHY-CBLP-M-1000 plenum 18 AWG - (1 mm ²)-50 ft (17 m) max |

Alena Drapery System | Dual Drive Wiring

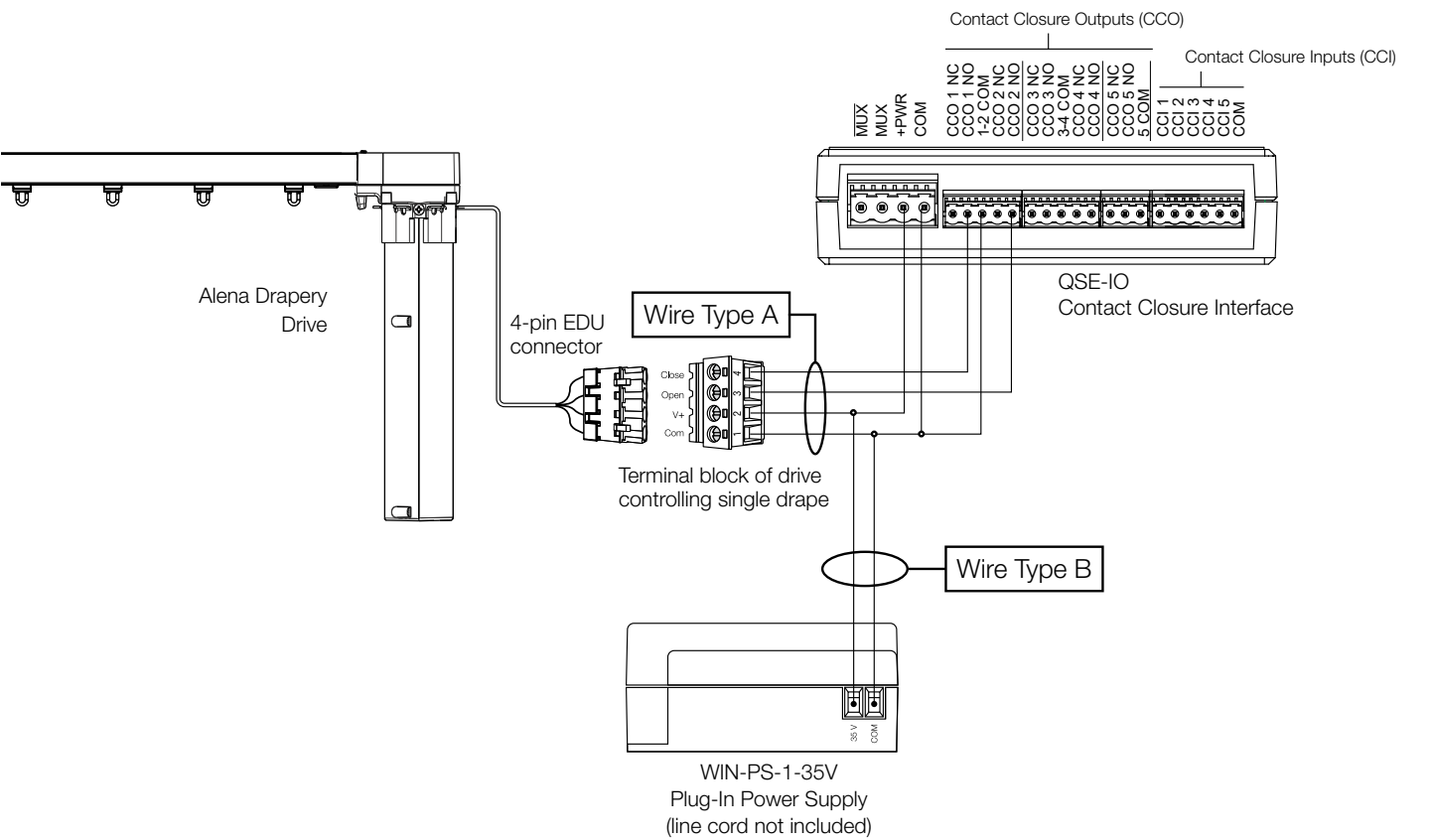


Notes:

- Standalone draperies can be controlled with a keypad, or via manual activation.
- Pressing any button on a keypad while the drape is moving will cause the drape to stop.
- The contact closure device must be capable of switching 36 V_{AC} with a minimum contact closure time of 0.25 seconds (for each link)

| Wiring types | Purpose | Wire options |
|--------------|-------------------------------------|---|
| A | Contact Closure input/output | 18-22 AWG (1.00-0.50 mm ²) per contact closure - 250 ft (75 m) max |
| B | Drive power (power supply to Drive) | 12 AWG - (4 mm ²)-250 ft (75 m) max 16 AWG - (1.5 mm ²)-100 ft (30 m) max Lutron P/N QSHY-CBL-M-1000 Non-plenum Lutron P/N QSHY-CBLP-M-1000 plenum 18 AWG - (1 mm ²)-50 ft (17 m) max |

Alena Integrated System | Single Drive Wiring

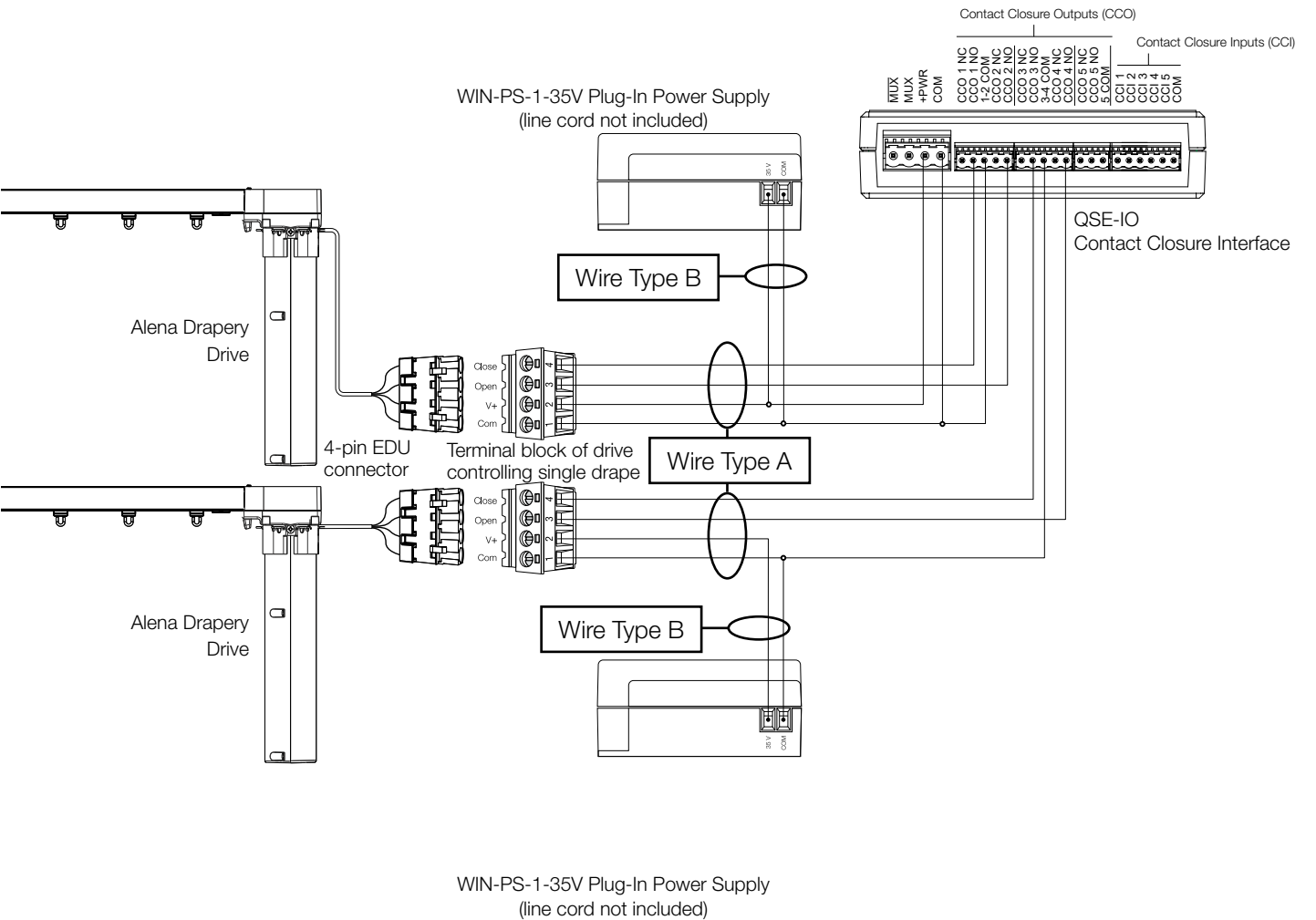


Notes:

- QSE-IO outputs programmed as a 0.25 second momentary contact closure output
- Activating Open or Close while the drape is moving will cause it to stop

| Wiring types | Purpose | Wire options |
|--------------|-------------------------------------|---|
| A | Contact Closure input/output | 18-22 AWG (1.00-0.50 mm ²) per contact closure - 250 ft (75 m) max |
| B | Drive power (power supply to Drive) | 12 AWG - (4 mm ²)-250 ft (75 m) max 16 AWG - (1.5 mm ²)-100 ft (30 m) max Lutron P/N QSHY-CBL-M-1000 Non-plenum Lutron P/N QSHY-CBLP-M-1000 plenum 18 AWG - (1 mm ²)-50 ft (17 m) max |

Alena Integrated System | Dual Drive Wiring



Notes:

- QSE-IO outputs programmed as a 0.25 second momentary contact closure output
- Activating Open or Close while the drape is moving will cause it to stop

| Wiring types | Purpose | Wire options |
|--------------|-------------------------------------|---|
| A | Contact Closure input/output | 18-22 AWG (1.00-0.50 mm ²) per contact closure - 250 ft (75 m) max |
| B | Drive power (power supply to Drive) | 12 AWG - (4 mm ²)-250 ft (75 m) max 16 AWG - (1.5 mm ²)-100 ft (30 m) max Lutron P/N QSHY-CBL-M-1000 Non-plenum Lutron P/N QSHY-CBLP-M-1000 plenum 18 AWG - (1 mm ²)-50 ft (17 m) max |