



Illustration Purposes Only
Not to scale

Viewing from inside out

Cabling System

The View cabling system uses a trunk line/drop line network topology. In this topology, the trunk cable carries both power and data through the entire length of the installation. Drop cables are then tapped off of the trunk cable using trunk connectors at locations where window controllers are installed. The window controllers are then connected to individual IGU units via an IGU cable.

Note: Component data sheets will supersede the information found here.

01 Control Panel

Wall-mounted enclosure (21" x 29" x 9") that contains the power supplies, master controller, as well as auxiliary connections such as Ethernet and external sensors. At least one control panel is required for each installation. Each control panel can support up to 256 window controllers. For larger or multi-floor installations, multiple control panels may be required.

Specifications for Control Panel:

| | |
|-----------|-----------------------|
| Input | AC 100-240V \pm 15% |
| Frequency | 50-60 Hz \pm 6% |
| Output | Class 2 24 VDC |

02 Trunk Cable

Pre-terminated cables fitted with 7/8", 5-pin connectors. Simple, hand-screw connection with no special tools required.

Specifications for Trunk Cabling:

- Max combined length approx. 1,500'
- Available in lengths from 1' to 160' (meter or fractional increments)
- Available in standard and plenum rated cables

03 Trunk Connectors

Used to connect drop cables to the trunk cable. Connectors available in both "Tee" and "Wye" configurations for installation flexibility.

04 Drop Cable

Provides power and data to the window controller. Ties into the trunk cable via the trunk connector.

Specifications for Drop Cabling:

- Available in lengths from 1' to 32.9' (meter or fractional meter increments)
- Available in standard and plenum rated cables
- Maximum drop cable length depends on total number of window controllers tied to the control panel. If the max 128 window controllers are used on a single trunk line, the max drop cable length is 15'. With fewer WCs, longer drop cables may be used.

05 Window Controller

Facilitates power transmission to each IGU. Connected to a drop cable on one end and an IGU cable on the other end. Must be installed at an accessible, environmentally-controlled location. Typically one window controller is installed per IGU.

Specifications for Window Controllers:

| | |
|------------|---------------------------|
| Input | 24 VDC |
| Output | Range between \pm 5 VDC |
| Dimensions | 4-5/8" x 3/4" x 3/4" |

06 IGU Cable

Connects a window controller to the IGU pigtail cable.

Specifications for Drop Cabling:

- Available in lengths from 1' to 100' (meter or fractional meter increments)
- Available in standard and plenum rated cables
- Max combined length from the WC to the IGU is 100'

07 IGU Pigtail

Each IGU receives power from the control system through an IGU pigtail. The pigtail connector is embedded with a digital ID that is unique to that IGU's dimensions and specifications.

Specifications for IGU Pigtail:

- ~12" length located 3" from corner. Location changes based on shape and dimensions. See IGU data sheet for exact location.
- Requires 7/16" hole size

08 Power Insert Cable

Transmits power from a power source to the trunk line via a power insert connector. Available both in pre-terminated lengths or spool options.

For long trunk lines, power inserts may be required to provide appropriate power. The power inserts can originate from:

1. Power output ports from the control panel
2. Standalone power injection panel (not shown in diagram)

Specifications for IGU Pigtail:

- Field wireable power insert cables available in up to 1,000' spools
- One power insert is typically required after every (24) window controller connections
- All power insert cables are plenum rated

09 Trunk Terminator

Installed at both ends of the trunk line to reduce data signal reflections on the trunk line.

10 Sky Sensor

Used to detect external light and infrared levels. Data from the sensor is transmitted to the control panel for Intelligence. It is typically mounted on the roof top.