View Controls Cabling Overview

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Scope

This manual will give you a brief introduction of the cables used in the View Glass system.

Cables

All cables are pre-terminated and packaged in varying lengths depending on the system design. All cable ends are terminated with a connector that is either male or female. The ends of all cables have a connector that is designed to fit to another connector in a very specific direction. When connecting cables to cables or cables to connectors, you should always look inside the connector to verify proper alignment. If connectors are miskeyed, the system will not work properly.

There are various cables that you will use to connect the View Glass system. Before starting this introduction, it is important to note that you should always label the ends of the wires just in case troubleshooting is necessary. By putting a simple label at the end of each cable, you can easily track where each cable goes once the system has been completely installed.

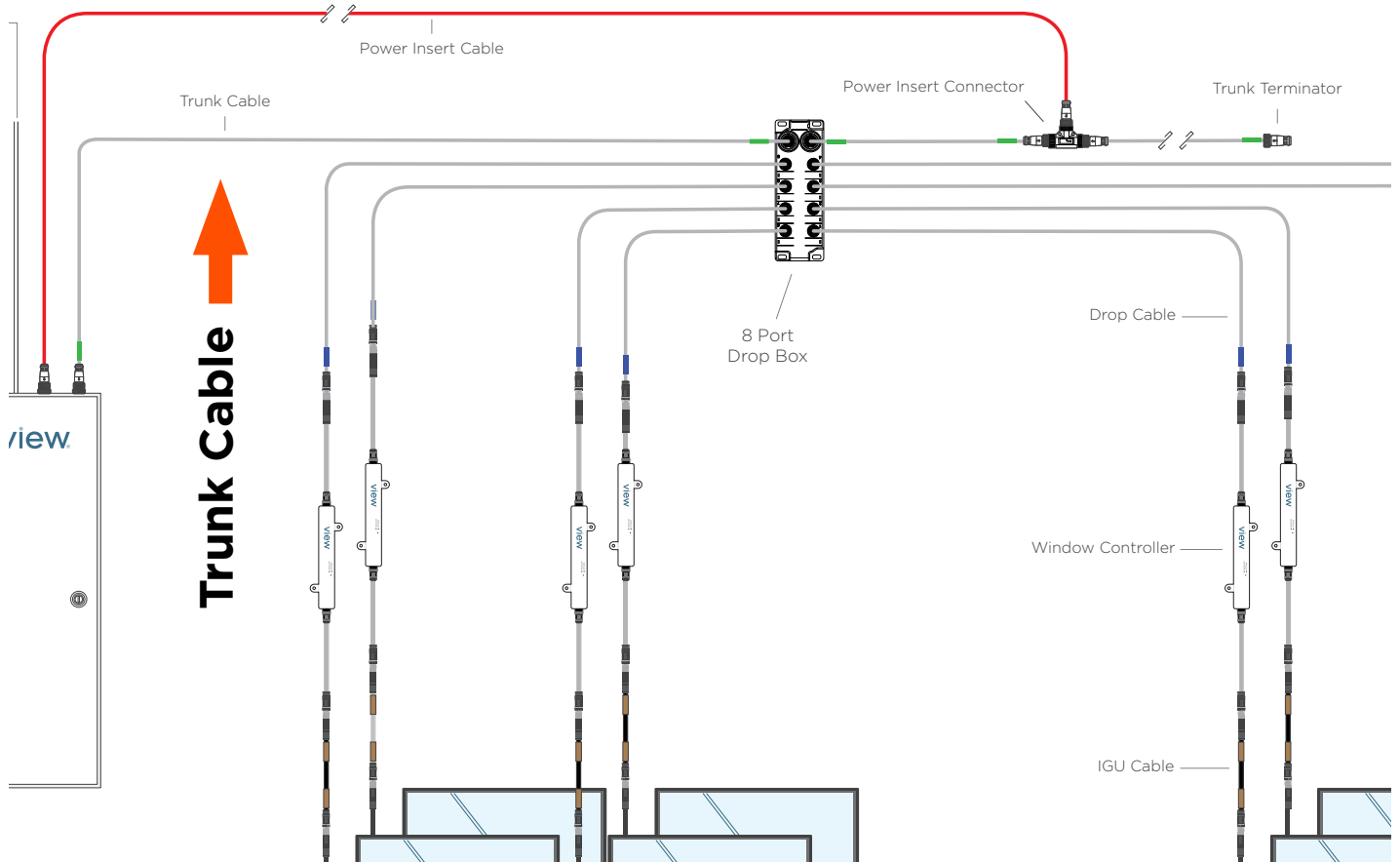More details of each cable can be found in the Official Data Sheets.

Definition of View Controls

| DEFINITIONS	
Cell Modem	The Cellular Modem Assembly provides remote network connectivity to a View Glass system when installed with a View Control Panel.
Control Panel	The View Control Panel (with class 2 outputs) houses the control components and power source that are responsible for the operation of a View System
8 Port Drop Box	A network distribution component used to connect multiple Drop Cables to a trunk line
Drop Cable	The drop cable connects the window controllers to the trunk cable
Heavy Trunk Power Cable	The trunk power cable provides electrical power to the View Controls
IGU Cable	Connects a window controller to the IGU Smart Window Connector
Power Insert	Power Insert Cables distribute electrical power form the View Control Panel to the Trunk Cabling System
Power Insert Connectors	Power insert connectors are used to connect the power insert cable to the trunk cable
Pull Box	The View Pull Box is a single-door wall-mounted enclosure that provides a protected connection area where cables from a View Control Panel enter a building's cable conduit system
Sky Sensor	The roof-mounted Sky Sensor provides external light level data and infrared temperature data to the View system to allow optimization of tint levels for each glass zone.
Terminator	Trunk terminators are used to match the impedance of a node to the impedance of the trunk line
Master Controller	The master controller runs the View Intelligence software, manages remote maintenance and site monitoring and connects all control panels on a given building
Trunk Cable	The trunk cable is the backbone of the View Controls, providing both power and communications through a single cable and distributing it to the rest of the system.
Trunk Connectors	Trunk connectors are used to connect other cables and components
Wall Interface	The View Wall Interface is a compact wall-mounted interface for adjusting and monitoring tint levels of View glass.
Window Controller	The window controller (WC) is responsible for facilitating power transmission to each IGU.

Trunk Line

The primary cable that distributes power and communication to the Dynamic Glass System though a single cable. Each IGU and Window Controller is branched back into the Trunk Line. The Trunk Line can be identified by a (━━━ WT ━━━) line on the Interconnect Drawings.

Power Insert Cable

Power Insert Connector

Trunk Terminator

Trunk Cable

Trunk Cable

8 Port Drop Box

Drop Cable

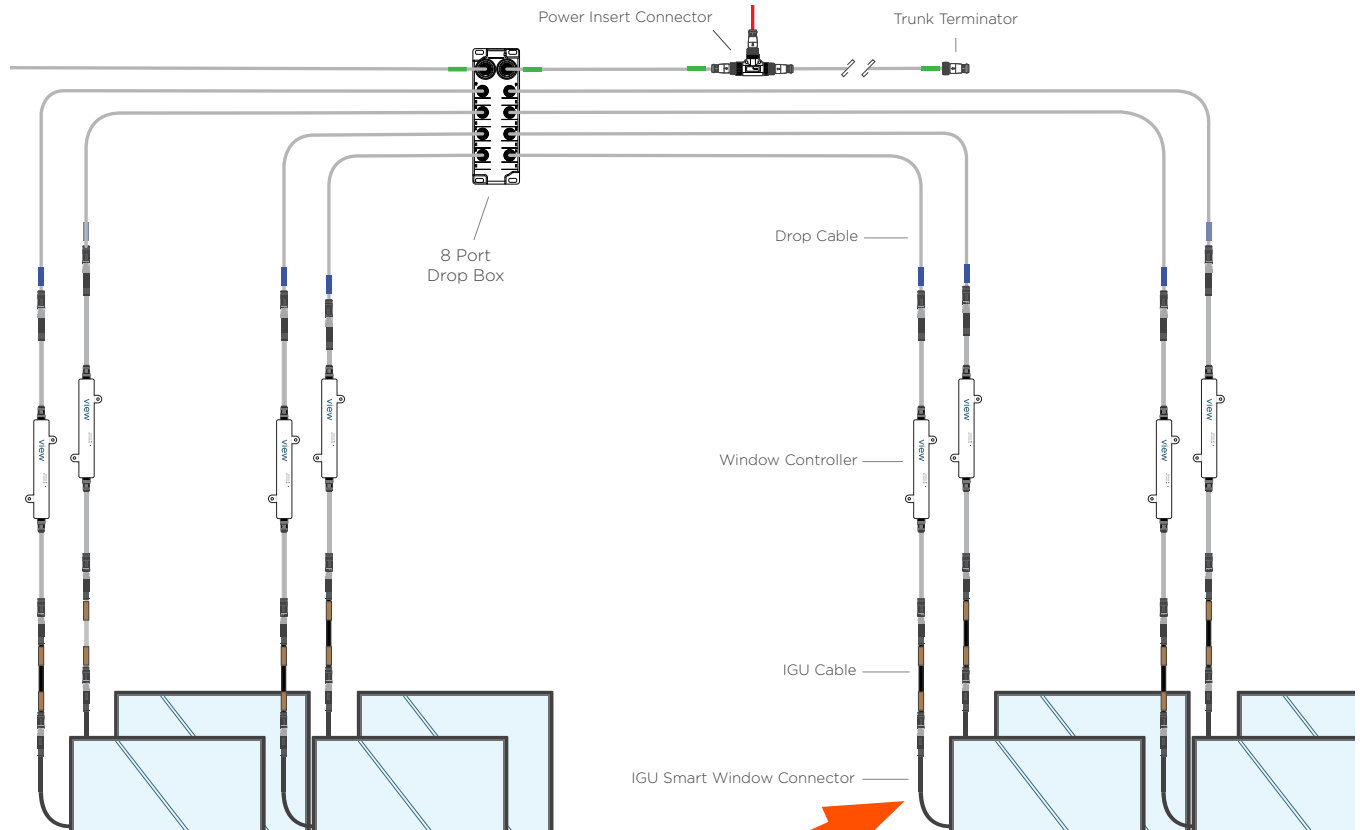Window Controller

IGU Cable

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Drop Cable

The communication and power cable between the Window Controller and Trunk Line cable. The Drop Cable can be identified by a solid thin black line (——————) on the Interconnect Drawings.
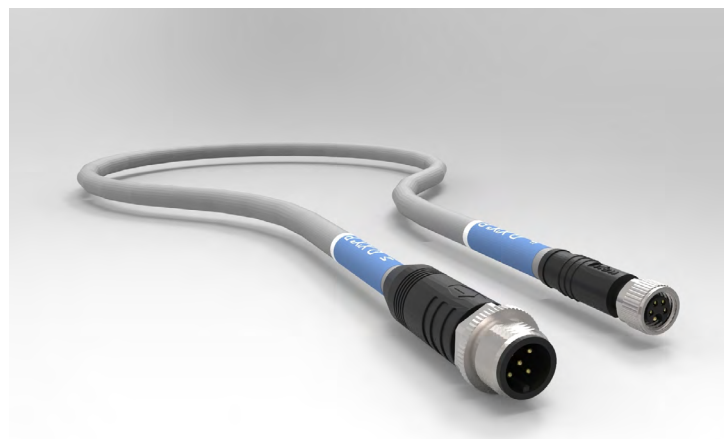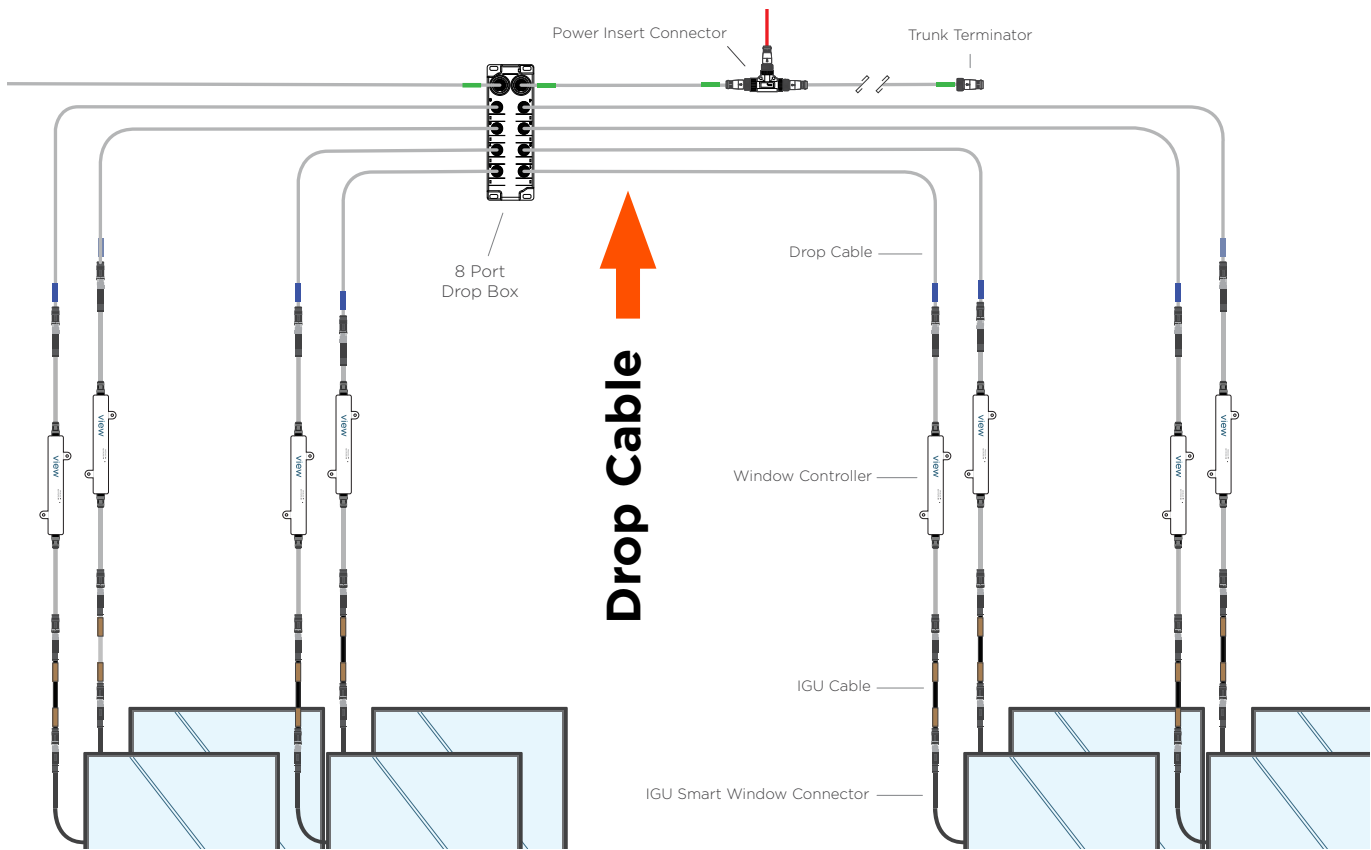
IGU Smart Window Connector

The electrical wire coming from each IGU that provides the electrical voltage necessary to tint the glass. The IGU Smart Window Connector is located 3" from the corner of the IGU and is 15.5" +/- 1.5" in length and 4mm in diameter. The IGU Smart Window Connector can be seen as a bright pink line (⬤———▷) coming out of the IGU on the Interconnect Drawings.

Power Insert Connector

Trunk Terminator

8 Port Drop Box

Drop Cable

Window Controller

IGU Cable

IGU Smart Window Connector

IGU Smart Window Connector

IGU Cable

The communication and power cable between the Window Controller and IGU. The IGU Cable connects to the IGU Smart Window Connector. The IGU Cable can be seen as a bright pink dashed line (▬ ▬ ▬ ▬ ▬) connecting to the IGU Smart Window Connector on the Interconnect Drawings.

Power Insert Connector

Trunk Terminator

8 Port Drop Box

Drop Cable

Window Controller

IGU Cable

IGU Cable
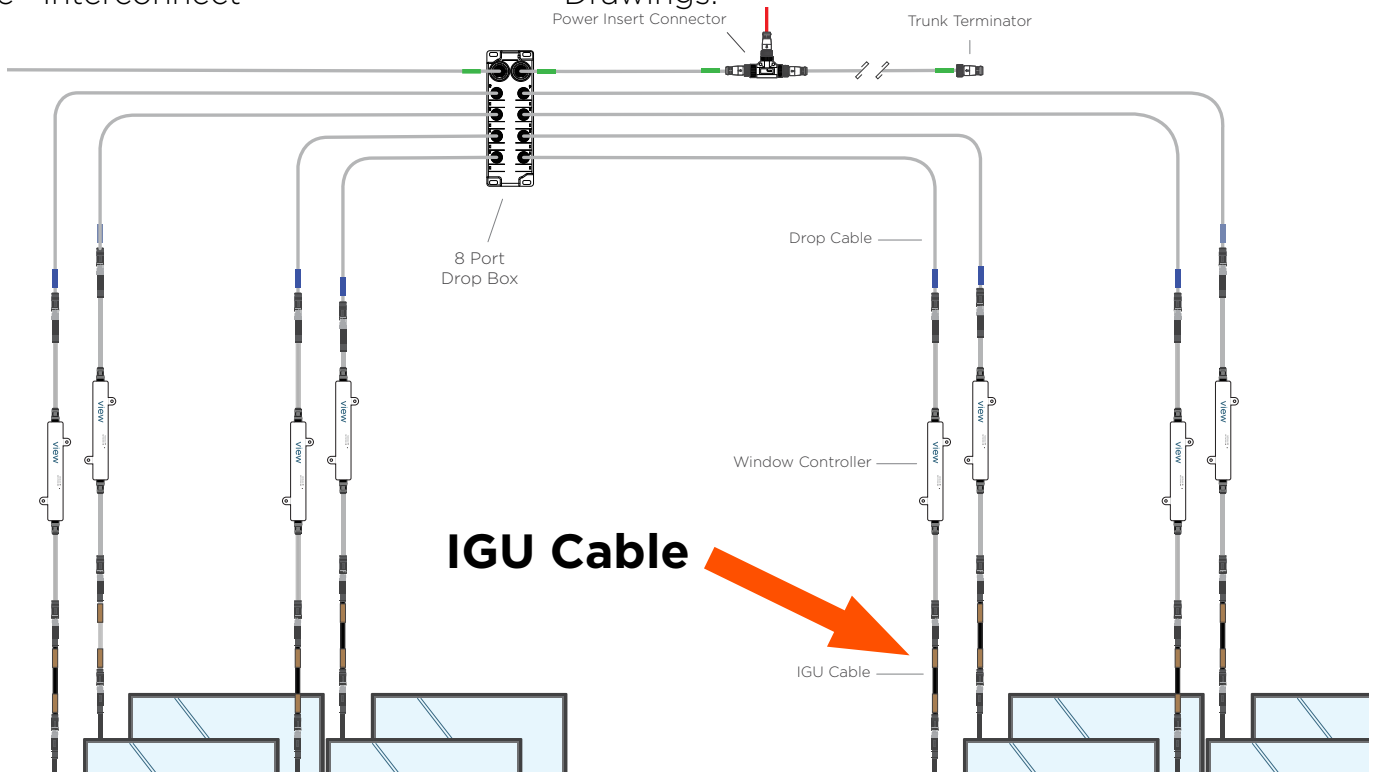
Power Insert Cable

A cable that is inserted into the trunk line from a power supply to provide additional power to run the system. The Power Insert cable can be identified by a (━━ PI ━━) line on the Interconnect Drawings.

Power Insert Cable

Trunk Cable

Power Insert Connector

Trunk Terminator

Power Insert Cable

8 Port Drop Box

Drop Cable

Window Controller

IGU Cable