



	Wire Run Type	Comments
1	Network Connection	Wiring contractor to install (1) x Cat5e/Cat6 from each intercom panel location directly to Router if under 300'. If wire distance exceeds 300' to router, connect Panel to Network Switch (250' max) and Network Switch to Router (250' max).
2	Access Control	Wiring contractor to coordinate with access control provider, install (1) x 18/2 from each intercom touchscreen to access controller system. Access Control provider to terminate 18/2 from dry contact of touchscreen to REX Input of the access control. Access control contractor to confirm electronic lock will disengage when signal is sent through dry contact relay.
3	Electrical Power	Electrical contractor to coordinate (1) dedicated circuit (with 5-20 receptacle). Panel to be connected to 12VDC transformer -> UPS Power (Battery Backup) -> Wall outlet. DC power can only be used if the length of the run fits the provided 12VDC transformer. For all runs longer than the provided 12VDC transformer, you must use POE+ .
4	Electric Door Lock	ButterflyMX strongly suggest all Electrical Door Lock wiring to be home-run directly to main headend. To adjust timing/delay, contact ButterflyMX Support. To wire directly to an electric strike, it is necessary to introduce an isolation/buffer relay with a 12vdc adapter. For AC-powered locks, a resistor must be installed; for DC-powered locks, a diode must be installed. Here are our recommended products: Isolation Relay: Altronix RB5 Isolation Relay Adapter: 12 Volt AC to DC Adapter Diode: 1N400X Series Resistor: (450)
5		Uninterruptable Power Supply Battery Backup. To prevent voltage drops and surges, ButterflyMX strongly recommends installing a UPS device (see panel installation guide for additional details).
6		Please ensure the network switch is properly grounded.
7		Refer to Panel Installation Guide for additional details. Leave 6' service loop at each location for low voltage cabling.