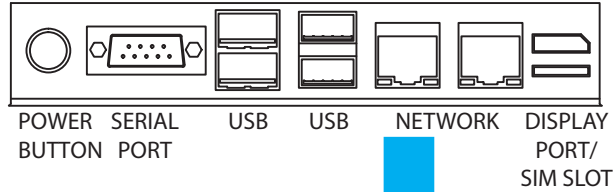


	Wire Run Type	Comments
1	Network Connection	Wiring contractor to install (1) x Cat5e/Cat6 from each intercom panel location directly to Router if under 300'. If wire distance exceeds 300' to router, connect Panel to Network Switch (250' max) and Network Switch to Router (250' max).
2	Access Control	Wiring 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 transformer -> UPS Power (Battery Backup) -> Wall outlet
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 requires 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.



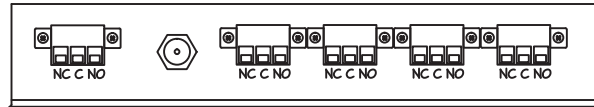
7" FLUSH MOUNT

TOP INTERFACE PANEL



CAT 6

BOTTOM INTERFACE PANEL

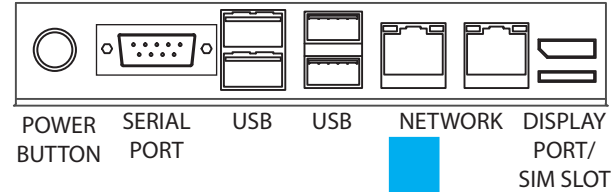


18/2 AWG
50' MAX

18/2 AWG

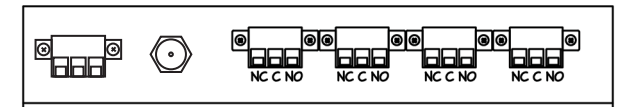
7" SURFACE MOUNT

TOP INTERFACE PANEL



CAT 6

BOTTOM INTERFACE PANEL

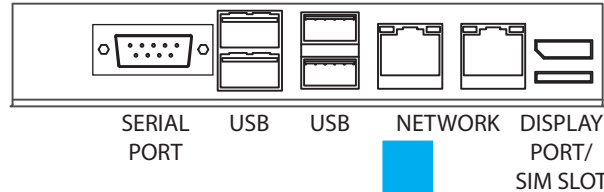


18/2 AWG
50' MAX

18/2 AWG

11.6" SURFACE MOUNT

TOP INTERFACE PANEL



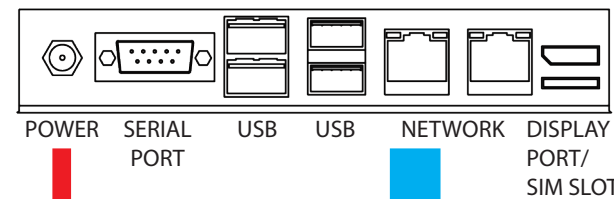
CAT 6



18/2 AWG
50' MAX

11.6" FLUSH MOUNT

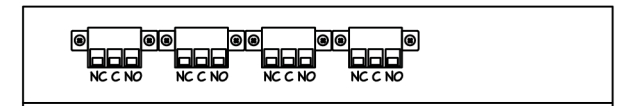
TOP INTERFACE PANEL



18/2 AWG
50' MAX

CAT 6

BOTTOM INTERFACE PANEL



18/2 AWG

LEFT INTERFACE PANEL

RIGHT INTERFACE PANEL

ButterflyMX Support Team Contact Information:
 Phone: (800) 398-4416 ext. 2 (Mon-Fri, 6am-10pm EST)
 Email: support@butterflymx.com

Frequently Asked Questions Guide (FAQ):

1. Can I double up on the extension cable for power? Eg. Can I use a 22/8 AWG for a 50-100 ft run?
 - a. No, this is not equivalent for a 16 AWG cable. For a 50-100 ft run, you must use a 16 AWG.
2. Can I use any RJ45 port to terminate the ButterflyMX's cat5/6 connection?
 - a. No, you must ensure the correct port on the correct switch/router is being used to terminate the ButterflyMX's data connection.
3. We have limited physical space for a UPS. Why is a UPS device required?
 - a. The UPS device is required to provide clean power to the ButterflyMX intercom, which is a full windows computer. We must treat the ButterflyMX product as an IT asset, not just a low voltage product. Find space for the UPS whether that's in a drop ceiling or in an equipment box.
4. Why is the RB5 isolation relay + diode/resistor necessary when wiring a ButterflyMX directly to an electric lock?
 - a. This is required to protect the ButterflyMX intercom from inductive kickback.
5. How many amps can the ButterflyMX relays handle?
 - a. The ButterflyMX relays should not be subjected to a larger amount of amperage. We are not concerned with the ButterflyMX relays, we are concerned with the computer behind them.
6. Why does ButterflyMX sometimes require a dedicated internet account for its products?
 - a. When too many networked products share an internet account, they compete for bandwidth. The dedicated internet account ensures the ButterflyMX meets its minimum network requirements.
7. If ButterflyMX recommends using a third-party card reader system, why is there a card reader inside the intercom?
 - a. ButterflyMX routinely future proofs its product, and the card reader was put in the device to support future planned development.
8. In recessed ButterflyMX intercoms, there are holes in the back box. Does this put the product at risk of water damage?
 - a. Silicone sealant must be applied to the back box when installing a recessed ButterflyMX intercom.
9. Does ButterflyMX support a DSL connection for internet?
 - a. No, ButterflyMX does not support DSL as it does not meet our minimum network requirements.