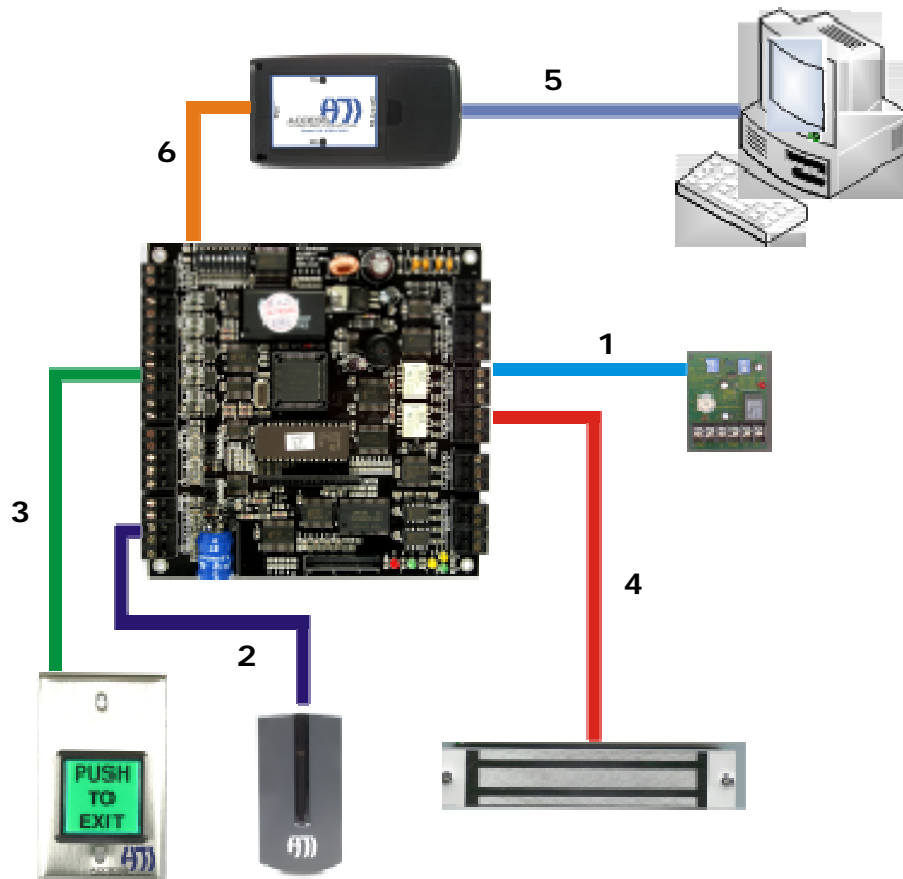


4. INSTALLATION CHECK POINTS.

Installation of the StarAccess SA-2000-II can be done with common hand tools and readily available communication wires. This section provides information about wiring, wire runs and other information to facilitate installation.

4.1. CHECK POINTS BEFORE INSTALLATION

4.1.1. 4.1.1 SYSTEM VIEW SHOWING VARIOUS TYPES OF CABLE



NOTE: NUMBERS SHOWN ON THIS SKETCH CORRESPOND TO DETAILS ON THE TABLE BELOW.

4.1.2. RECOMMENDED CABLE TYPE AND LENGTH

Reference to System View	Description	Cable Specification	Maximum Distance
1	SA-2000-II Power (DC12V) DC Power -> SA-2000-II	Belden #9409, 18 AWG 2 conductor, unshielded	30m 100ft
2	*Reader (Power and Data) Extra Reader -> SA-2000-II	Belden #9512, 22 AWG 4 conductor, shielded	150m 500ft
		Belden #9514, 22 AWG 8 conductor, shielded	
3	Door Contact Exit Button Sensor Input Input -> SA-2000-II	Belden #9512, 22 AWG 4 conductor, shielded	300m 1000ft
		Belden #9514, 22 AWG 8 conductor, shielded	
4	Door Lock, Alarm Device Lock (Alarm) -> SA-2000-II	Belden #9409, 18AWG 2 conductor, unshielded	300m 1000ft
5	RS-232 Cable Converter -> Host P.C.	Belden #9829, 24 AWG 2-twisted pair, shielded	15m 50ft
6	RS485 Cable SA-2000-II -> SA-2000-II	Belden #9829, 24 AWG 2-twisted pair, shielded	1,200m 4000ft
	SA-2000-II -> Converter RS-422 Cable SA-2000-II -> SA-2000-II	Belden #9830, 24 AWG 3-twisted pair, shielded	
	SA-2000-II -> Converter		

* Need heavier gauge wire if you connect a reader with high current consumption.