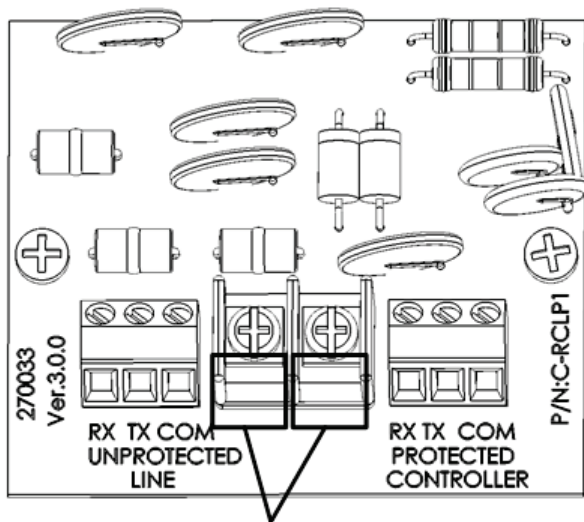


Communication Lightning Protection

1 Precautions

CAUTION The COM connection for communications is not the shield wire. The COM, RX and TX wires must connect to each other at all controllers.



Grounding terminals

CAUTION Connect the safety ground wire to one of the grounding terminals!

- Install the lightning protector in series on the cable leading from the controllers to the multiplexer. Locate the protector close to controller. Install a good ground; otherwise, protection is not effective.
- Connect the side marked "Protected" to the controller side. Connect the side marked "Unprotected" to the other side of the cable, leading to multiplexer.
- Use 3 wire shielded cable (3 + shield) for the communication line. Connect the shielded wire to the safety ground terminal.

CAUTION Do not ground the shield of the protected side.

2 Wiring

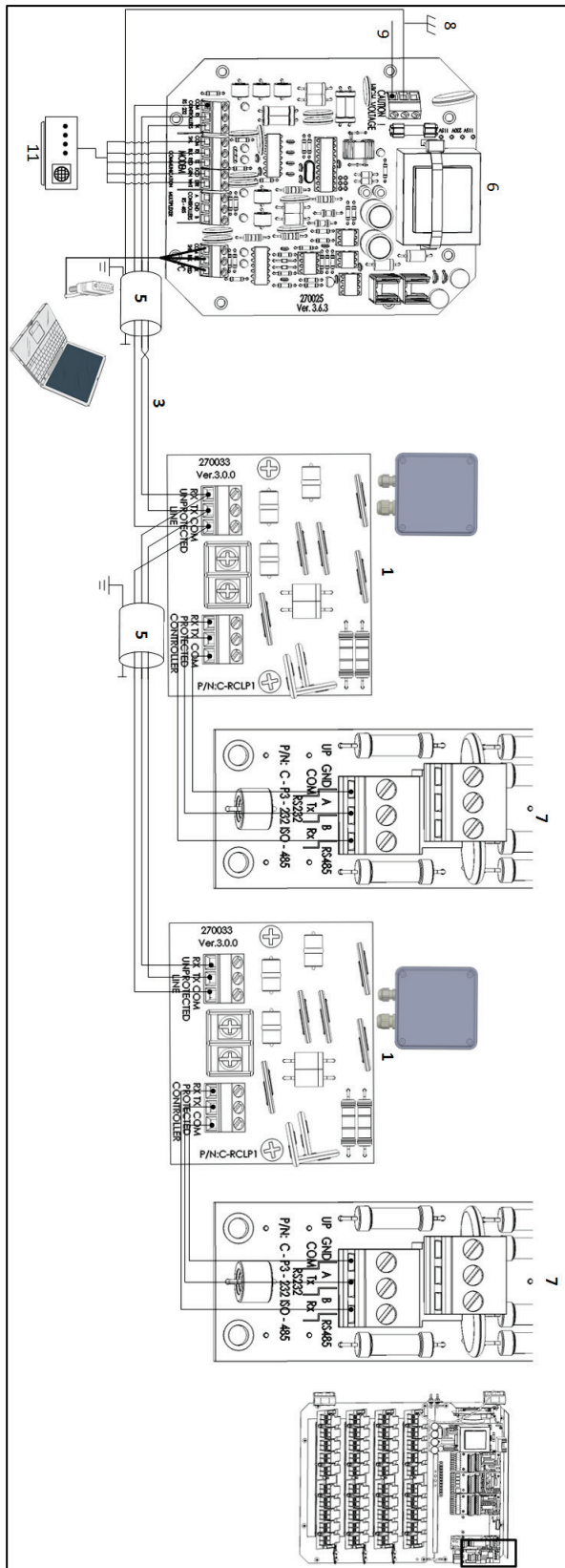


Figure 1: RCLP RS-232 Wiring

CAUTION Ground the RCLP on one side only!

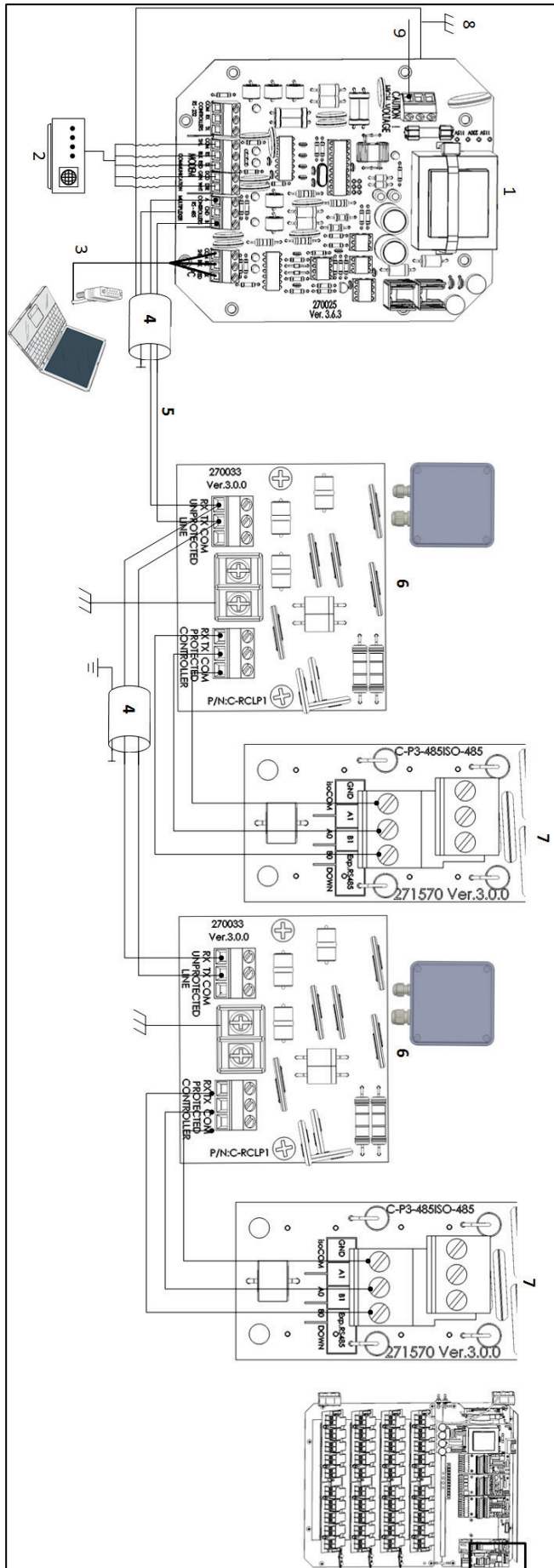


Figure 2: RCLP RS-485 Wiring

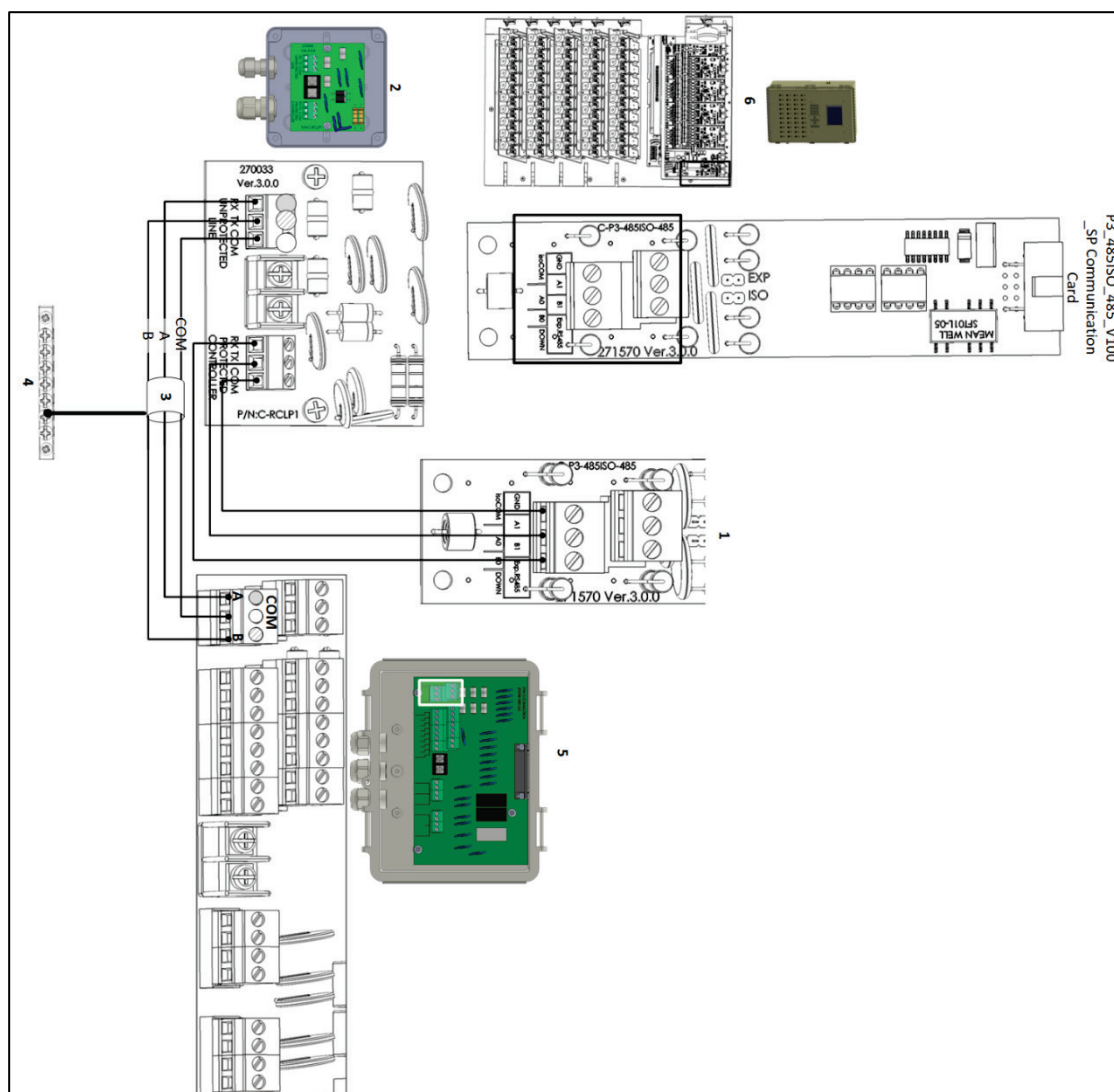


Figure 6: Communicator 2.0 Junction Box RS-485 Wiring

NOTE Refer to the Communicator 2.0 Manual for details on wiring the Junction Box to the Communicator 2.0.

Table 1: Figure 3, Figure 4, Figure 5 Figure 6 Key

1	Communication card ports	4	Grounding strip
2	RCLP unit and card	5	Junction Box and card
3	See Table 2: Shielded cable length and baud speed	6	Controller and communication card

Table 2: Shielded cable length and baud speed

○ For 10 controllers:	○ For one controller:
1200 meters: 9600 Baud	2000 meters: 9600 Baud
1800 meters: 4800 Baud	2500 meters: 4800 Baud
2400 meters: 2400 Baud	3000 meters: 2400 Baud

NOTE The possible baud rate is dependent on the cable length and the number of controllers connected.