Locate and identify each the following RFC control system components on the diagram on the back:

1. Power Distribution Panel (PDP)
2. National Instruments roboRIO
3. Pneumatics Control Module (PCM)
4. Voltage Regulator Module (VRM)
5. OpenMesh radio
6. Robot Signal Light (RSL)
7. SPARK PWM motor controller
8. SPARK MAX CAN/PWM motor controller
9. Servo Motor
10. Pressure Switch
11. Air Compressor
12. Single Solenoid (for pneumatics)
13. Double Solenoid (for pneumatics)
14. Digital Input/Output (DIO) Devices
15. Analog Input pins
16. Digital Input/Output (DIO) pins
17. Pulse-Width Modulation (PWM) pins
18. CAN Bus origination port
19. CAN Bus termination port
20. PWM y-cables
21. 120A Circuit breaker (auto reset)
22. 20A Circuit breakers (auto reset)
23. 40A Circuit breakers (auto reset)
24. 10A blade fuse (single use)
25. 20A blade fuse (single use)
26. 6 AWG Red/Black wires
27. 12 AWG Red/Black wires
28. 18 AWG Red/Black wires
29. 22 AWG Yellow/Green twisted CAN cables
30. 26 AWG Red/Black wires
31. Ethernet Cable
32. Camera
33. 2x Anderson SB50 battery connectors
34. 6 AWG Terminal lugs
35. 12V Battery

**Some questions:**

1. What color are power wires and terminals?
2. What color are ground wires and terminals?
3. What color are signal wires?
4. What color(s) are CAN cables?
5. How can you tell which pins are the ground pins on the roboRIO?

Diagram, timeline

Description automatically generated