

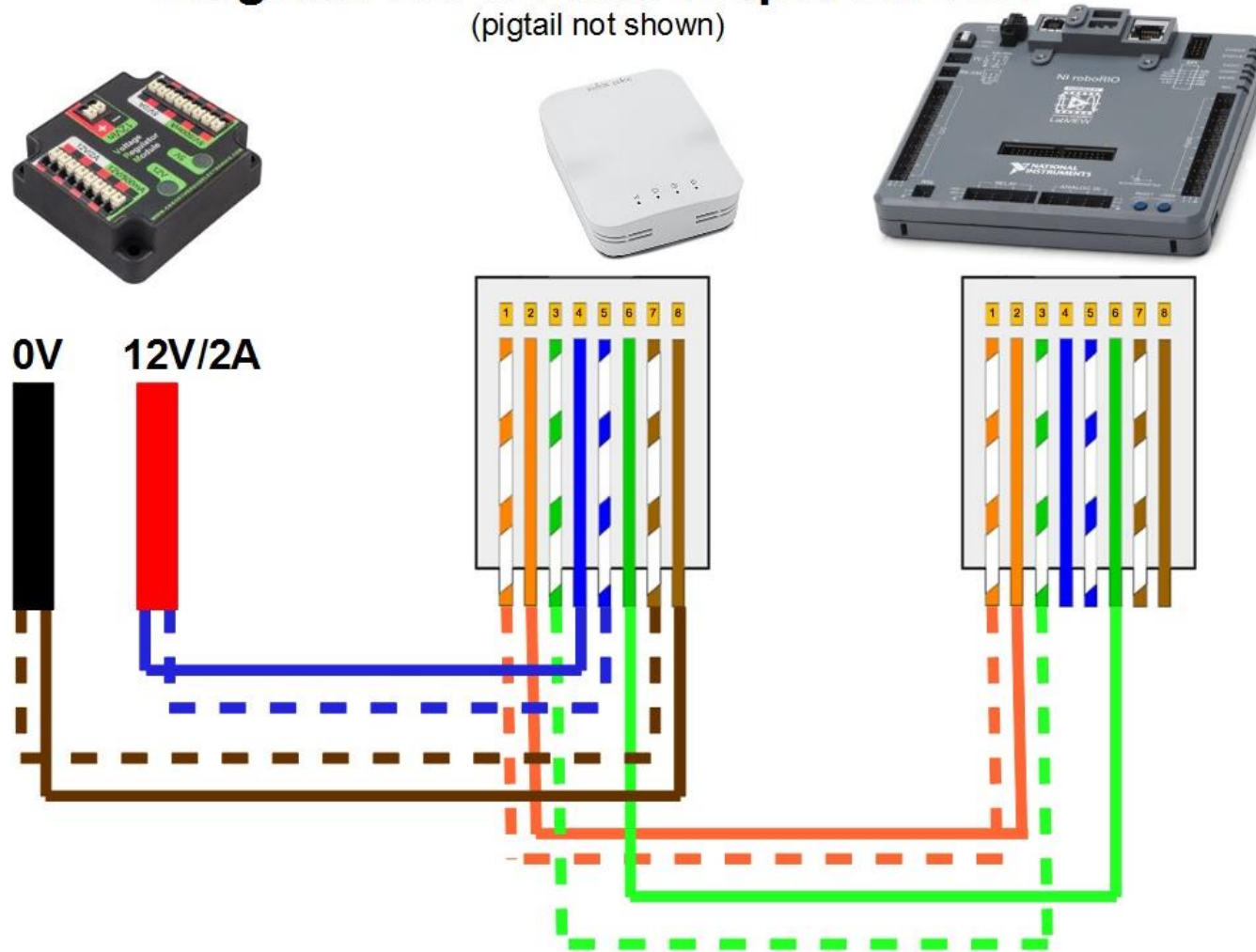
|  |  |                          |  |
|--|--|--------------------------|--|
| PART DESCRIPTION: RADIO + ARDUINO + 2 VRM (Logical/Physical) |  | QUANTITY/BOT: 1          |  |
| DRAWN BY: CATALIN GHERCOIAS                                  |  | CHECKED BY:              |  |
| MATERIAL: N/A  |  | DATE: FEB 25, 2018       |  |
| FILENAME: Page 3/5   |  | ASSEMBLY: LEFT ENCLOSURE |  |





# Diagram of PoE with respect to R63

(pigtail not shown)



PART DESCRIPTION: PoE Diagram

QUANTITY/BOT: 1

DRAWN BY: CATALIN GHERCOIAS

CHECKED BY:

DATE: FEB 25, 2018

MATERIAL: CAT 6

FILENAME: Page 4/5

ASSEMBLY: PoE CAT6 4 Feet



From 31A – 40A protected circuit use ..... 12 AWG(13 SWG or 4 mm<sup>2</sup>)  
 From 21A – 30A protected circuit use ..... 14 AWG(16 SWG or 2.5 mm<sup>2</sup>)  
 From 6A – 20A protected circuit between the PDP dedicated terminals,  
 the VRM or PCM or compressor outputs from the PCM use ..... 18 AWG (19 SWG or 1 mm<sup>2</sup>)  
 Between the PDP and the roboRIO or ≤5A protected circuit use ..... 22 AWG (22 SWG or 0.5 mm<sup>2</sup>)  
 VRM 2A circuits use ..... 24 AWG(24 SWG or .25mm<sup>2</sup>)  
 roboRIO PWM port outputs ..... 26 AWG (27 SWG or 0.14 mm<sup>2</sup>)  
 SIGNAL LEVEL circuits (i.e. circuits which draw ≤1A continuous  
 and have a source incapable of delivering >1A, including but not  
 limited to roboRIO non-PWM outputs, CAN signals, PCM  
 Solenoid outputs, VRM 500mA outputs and Arduino outputs) use ... 28 AWG (29 SWG or .08 mm<sup>2</sup>)

|                                     |                    |                 |                    |
|-------------------------------------|--------------------|-----------------|--------------------|
| PART DESCRIPTION: Wiring Tolerances |                    | QUANTITY/BOT: 1 |                    |
| DRAWN BY: CATALIN GHERCOIAS         |                    | CHECKED BY:     | DATE: FEB 25, 2018 |
| MATERIAL:                           | FILENAME: Page 5/5 | ASSEMBLY: N/A   |                    |

