Motor: Looking at Mounting Surface

Red
Red/White
Green
Green/White
Ground Wire

Limit Switches
nc
Green
Red
White
Black

Notes:
1. Motor is shown wired in series, for clockwise operation.
2. Red + Red/White and Green + Green/White are separate phases. Colors correspond to Superior Electric type motors.
3. To reverse direction, swap the leads of one phase (e.g. Red with Red/White)
4. Series wiring should always be used for driver speeds < 3000 steps/sec. At low speed, twice as much current is needed in parallel for equivalent torque.
5. Use parallel wiring for very high speeds. At high speed, the series inductance greatly reduces motor power. Consult Centent manual.
6. Select a resistor on the Centent CN0165 microstepper based on motor current rating. See table on CN0165 chassis.
7. Select degree of microstepping using jumpers on CN0165. A factor of 10 works best to avoid step errors and mechanical resonances.
8. Standby current may be trimmed to reduce motor noise via the lower trimpot on the CN0165.
9. Limit switches are shown in failsafe mode. Pressing switch breaks circuit.
10. Pin K on motor connector MUST be grounded for proper operation.
11. Motor chatter indicates an incorrectly wired phase, or mechanical problem.
12. For more info, consult manuals for CN0165 and OMS PCIX.

Cables:
1. Separate limit and phase cables.
2. Limit cable should be two twisted, shielded pairs, with exterior shielding. (e.g. Belden 8723)
3. Motor phase current cable should be four conductor, 18AWG with exterior shielding (e.g. Alpha 5132C).