

Berry Bros. General Contractors, Inc.

Standard Operating Procedures for Motor Terminations

Prior to starting work the following safety guidelines should be followed:

- Don appropriate PPE (Gloves, Hardhat, Steel Toe Boots, Eye Protection, and Hearing protection if required)
- Workplace should be clear and free of any items that could create possible slips and or trips, or introduce debris to the environment and remain in this condition throughout the duration of the job.

Route the cable from the combination starter panel or drive into the pre-existing cable tray (see cable tray SOP), in accordance with the client's provided drawings, to the destination motor. Cables should be supported in accordance with the NEC and/or client's provided drawings. Cable is then taken into the MTE (motor termination enclosure) mounted on the side of the motor, and terminated in accordance with the client's provided drawings. These terminations may involve using compression or mechanical lugs.

To terminate using compression lugs the wire insulation should be completely stripped back the distance of the compression lug barrel, and the wire fitted inside the barrel without any insulation remaining on the piece of wire entering the barrel. Using a crimp tool, crimp the compression lug onto the wire per the NEC guidelines. The hole in the top of the lug can then have the terminating bolt put through it and secured to the terminating point as specified in the client's drawings and/or the manufacturers installation instructions.

To terminate using mechanical lugs the wire insulation should be completely stripped back the distance of the mechanical lug entry, and the wire fitted inside the entry hole without any insulation remaining on the piece of wire entering the hole. The set screw on the mechanical lug can then be torqued in accordance the mechanical lug manufacturers installation instructions.

All wires and cables, and start panels should be labeled in accordance with the NEC and the client's provided drawings.