

## INSTALLATION PROCEDURES FOR COPPER CABLE TERMINALS AND CONNECTORS



File No.: E328465

- 1) PRIOR TO JOINT PREPARATION ENSURE ALL CABLES ARE DISCONNECTED FROM LIVE SUPPLY.
- 2) VERIFY THE CONNECTOR SIZE FOR THE CONDUCTOR SIZE TO BE USED.
- 3) REMOVE THE INSULATION FROM THE CONDUCTOR. ENSURE THAT CONDUCTOR STRANDS ARE NOT DISTURBED WHILE STRIPPING. STRIPPING LENGTH IS TO BE IN LINE WITH THE BARREL LENGTH AND EXPOSURE OF THE BARE CONDUCTOR STRANDS TO BE AVOIDED.
- 4) SELECT THE PROPER CRIMPING DIE AS RECOMMENDED ALONG WITH THE APPROPRIATE CRIMPING TOOL. FOR SMALLER CONNECTORS UPTO AWG #4 HAND CRIMPING TOOL CAN BE USED. FOR CONNECTOR SIZES BEYOND THIS AND UPTO 300MCM (150MM<sup>2</sup>) A 6 TON CLASS HYDRAULIC TOOL IS RECOMMENDED. FOR CONNECTORS BEYOND 300MCM (150MM<sup>2</sup>) UPTO 750MCM (400MM<sup>2</sup>) A 12 TON CLASS HYDRAULIC TOOLS IS RECOMMENDED. THIS ENSURES A PERFECT JOINT.
- 5) THE CONNECTOR TO BE PLACED AT THE CENTRE OF THE CRIMPING DIE. CRIMPING TO START FROM THE PALM END TOWARDS THE CONDUCTOR ENTRY AREA. NUMBER OF CRIMPS RECOMMENDED MAY BE FOLLOWED.
- 6) CRIMPED JOINTS TO BE VERIFIED FOR ANY PHYSICAL DAMAGE AT THE CRIMPED AREA. ENSURE THAT THERE IS NO SHARP EDGES OR BURR PRESENT AT THE CRIMPED AREA. RANDOM SAMPLE MAY BE SUBJECTED TO PULL OFF LOAD TEST. CRIMPED JOINT SHOULD NOT FAIL AT THE MINIMUM PRESCRIBED LOAD OF 15KGF.
- 7) FOR CRIMPING SMALLER CONNECTORS UPTO AWG #4 SIZE HAND OPERATED MANUAL HAND TOOLS CAN BE USED. EVEN A PNEUMATIC OR ELECTRIC MOTOR DRIVEN TOOL CAN BE USED FOR THE SAME APPLICATION. FOR HIGHER SIZES HYDRAULIC COMPRESSION HEAD CAN BE USED ALONG WITH MANUAL HYDRAULIC PUMPS, ELECTRIC/ BATTERY POWERED MOTOR DRIVEN HYDRAULIC PUMP CAN BE USED. THE OUTPUT FORCE FOR SUCH PUMPS SHOULD BE MINIMUM 10000 PSI. SELF CONTAINED HYDRAULIC TOOLS LIKE MANUAL HYDRAULIC OR BATTERY OPERATED TOOLS ALSO CAN BE USED.