
Service/Maintenance Procedure for 600V Electrical Cable

APPROVED: _____ DATE APPROVED: _____ DATE EFFECTIVE: _____
Maintenance Manager

PURPOSE This procedure describes the service and maintenance of 600V electrical cable. This procedure applies to all electrical personnel that perform or assist in this work. All Maintenance Electrical Personnel that perform or assist in accomplishing this work will follow all procedures.

REFERENCES

- MATERIAL SAFETY DATA SHEETS
- Safe Work Permit Procedure
- Lock Out/ Tag Out Procedure
- Safety Manual

SPECIAL EQUIPMENT Minimum 5KV Megger with 20,000 Mohm scale.

PREREQUISITE This procedure requires qualified craftsmen.

1. REVIEW this procedure with the electrical personnel to ENSURE all steps and cautions are CLEAR and all hazards have been DEFINED.
2. Electrical personnel shall VERIFY that all safety equipment in the sub station is in good working order.
3. If electrical lockout is required, REFER to Lock Out/ Tag Out Procedure.
4. When involving electrical distribution, NOTIFY central control operators that a power distribution system will be out of service, and what will be affected.
5. Refer to Electrical Switching Orders Procedure.

PRECAUTION Personnel will be exposed to low or high voltages. The following hazards are associated with electrical energy and safety precautions must be exercised:

1. Shock
2. Arc (Flash)
3. Blast

Exposure or contact with any of these hazards will result in burns, severe and/or possibly fatal injuries. Wear proper protective gear, barricade area to be tested.

PROCEDURE

SERVICE/MAINTENANCE FOR 600V POWER CABLES

1. The circuit must be DE-ENERGIZED and ISOLATED before beginning work.
2. Visually inspect grounding, cable support and termination.
3. Perform Testing Procedure for 600V cable, per industry practices.
- 4.. TEST leads must be in good shape, CLEAN and having no broken or cracked insulation.

CAUTION
DO NOT TOUCH CABLE DURING TEST.
CAUTION

5. DOCUMENT all test results and work done in proper files. All test results are to be reviewed and kept by the electrical supervisor.

DURATION

Interval for testing and maintenance: Testing and maintenance as outlined above shall be done on the cable covered by this procedure at an interval NOT TO EXCEED 5 YEARS. The electrical supervisor or his designee will implement the timing based on schedules and maintenance work.

END

600V CABLE TEST

CABLE SERVICE (Project Name) _____ LOCATION (Area in Plant) _____

DATE OF TEST _____ WEATHER COND. _____

AMBIENT TEMP. (Degree F) _____ FREE AIR PROBE TEST RESULTS _____

PERSON(S) PERFORMING TEST & COMPANY AFFILIATION _____

Description Circuit No., Ect.	Cable Type (XHHW or RHH/RHW/USE and Size)	1 Approx. Length (Ft.)	2 Megohms (For Run)	3 Megohms-1000 Ft (2)x(1)/1000 Ft	4 Temperature Correction Factor (From Table)	5 Megohms-1000 Ft. Corrected to 60 deg. F (3)x(4)	6 Megohms-1000 Ft. (Minimum Acceptable) (From Table)	Comments Acceptable(?)