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Diagnostic Technologies for EHV Underground Cable Systems

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Keywords: EHV Underground Cable, Diagnosis

Abstract

Diagnostic Technologies on EHV cables and their accessories have been performed for good quality of power transmission in KEPCO. It includes Fault location guidelines and equipments for underground and submarine cables, PD measurement and analysis, and performance evaluation tests for all power cables including superconducting cable.

Main cable testing equipments are like below;

- Fault Location equipment for power cables
 - TDR, Burning System, Pin-pointing equipments, Route tracer, etc.
- PD Measurement and analysis sets for power cables
 - Potable PDMS, Sensors and Analysis Software
- H.V Test Equipments up to 500kV power cables
 - (including both AC and DC Superconducting Power Cable)