



# High- & Extra-High-Voltage Maintenance Program



## Worldwide High-Voltage Leader

General Cable's Silec® Brand High- and Extra-High Voltage (HV/EHV) underground transmission cable system solutions have been a recognized leader in the global electric utility market for over a half century.

**As your best partner in providing a comprehensive range of HV/EHV solid-dielectric extruded cable and accessories, General Cable is also your best partner to maintain your HV/EHV underground transmission system.**

With unrivaled expertise in underground transmission cable systems, General Cable understands the challenges utilities face in upgrading and maintaining the electrical grid to meet increasing energy demands and provide affordable, reliable service—from system planning to final testing and post-project maintenance. We also understand that these significant and complex underground transmission projects represent a considerable investment, requiring not only the most advanced high-voltage technology that goes into design, manufacturing and testing of the HV/EHV cables and accessories but also the on-going maintenance needed to ensure maximum service life.

## Maintenance Services

With more than 14,000 km of cables, 30,000 terminations and 19,000 joints of HV/EHV cables installed and commissioned since 1962, General Cable is your best partner for the life of the entire cable system. Our new maintenance program will help keep your system running at optimal performance.

To fully support our customers, General Cable has the experience and technical expertise to provide comprehensive maintenance services giving utilities complete peace of mind that their systems are properly tested, maintained, and serviced while meeting all necessary standards.

- **Visual Inspections & Maintenance Solutions**
- **Inventory Inspection**
- **Testing**
- **Emergency Services**
- **Engineering**
- **Project Management**
- **Stand-by Links**

## Visual Inspections & Maintenance Solutions

Manhole coordinates; manhole environment; structure integrity; cable movement; racking; cable clamps; termination/splices; bonding accessories; video inspection; thermal imaging; and manhole cover and identification.

## Inventory Inspection

Location confirmation; manufacturer contact information; expiration/refurbish dates; storage environment concerns; quantities; condition of material and spare material management.

## Testing

Energized Circuit — PD measuring and thermal imaging.

De-Energized Circuit — PD measuring; AC Hi-Pot testing; VLF Hi-Pot testing; jacket integrity testing; continuity conductor testing; fiber optic testing; DTS testing; ground resistance testing; tan delta testing; other tests upon request.

## Emergency Services +1 859.386.9756

- Engineer support can be on-site within 24 hours to troubleshoot, find fault location and determine action plan with client.
- Properly equipped crew can be on-site within 72 hours to execute on action plan.

## Engineering

Ampacity analysis; feasibility studies; conceptual engineering; electro-dynamic force calculations; HV/EHV underground system design; pulling calculations; plan and profile drawings; EMF calculations; cable short circuit and earth fault current calculations; sheath bonding and earthing system design for metallic shielding; other engineering services available upon request.

## Project Management

Turnkey projects (including civil works); oversight of civil works; complete cable system installation — cable pulling, accessory installation, warranty assurance, and training.

## Stand-by Links

- For voltages up to 275 kV
- Used in substations to bypass OHL
- Maintain power transmission in the case of unusual failures
- Substation repairs and spare product support



General Cable Testing & Commissioning Truck



Visual Inspection & Maintenance Services



On-site Testing



Ready-to-Use Stand-by Link (Fitted with a termination)

For more information on General Cable's HV/EHV underground transmission maintenance services, call +1.800.237.2726 or e-mail [silecna@generalcable.com](mailto:silecna@generalcable.com) in the US, or call +1.800.561.0649 or e-mail [silecca@generalcable.com](mailto:silecca@generalcable.com) in Canada.