

CASE STUDY

Elastimold® 600 amp spiking-T elbow



Industry: Electrical utility
 Challenge: Enable spiking without cutting feeder cable
 Product: Elastimold 600 amp spiking-T elbow

- 01 600 amp spiking-T elbow and connectors
- 02 Standard 600 amp elbow
- 03 600 amp spiking-T elbow

Abstract: When a medium-voltage circuit is decommissioned without sectionalizing equipment, the common field practice is to spike the feeder cable to ensure that the circuit is de-energized. Only then can the crews work on the system safely. Spiking the feeder cable, however, can cause extensive outages, excessive labor and increased equipment costs. It also poses a risk of power cable eventually becoming too short to re-establish a completed circuit.

Solution: Working in conjunction with a utility company in the northeastern United States, ABB Elastimold engineers and product experts designed a solution that reduced the risks and labor costs associated with spiking feeder cables. Featuring a bolted connection that enables the circuit to be separated without damage to the cable, the Elastimold 600 amp spiking-T elbow allows the customer to spike the cable without cutting it.

Conclusion: The Elastimold 600 amp spiking-T elbow consists of a 600 amp standard elbow with special contact to ensure that the system is de-energized, protecting the line crew without harm to the cable. Once the elbow is spiked, the crew can make the necessary repairs. The design makes the 600 amp spiking-T elbow easy to use and replace in the field for 5 kV to 28 kV applications. It provides a safer and more efficient method of de-energizing a medium-voltage system, and it saves time and money during an outage by allowing faster service restoration — without any compromise to crew safety. The 600 amp spiking-T elbow can also be used as a 600 amp repair elbow; it is 7 inches longer than the standard 600 amp elbow. The utility company that worked with ABB engineers and product experts on the development of this product currently has the Elastimold 600 amp spiking-T elbow in service and reports that it has met or exceeded their expectations.

Contact your local agent today for more details about this application or the full line of Elastimold underground cable accessories, including innovative 200 amp and 600 amp solutions.

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