

CASE STUDY

Elastimold® 600 amp replacement elbow for cable extension



Industry: Electrical utility
 Challenge: Existing cable too short to reach bushing on new switchgear
 Product: Elastimold 600 amp replacement elbow

Abstract: One of the largest electric power holding companies in the United States was replacing live-front switchgear with new dead-front switchgear. The bushings on the new switchgear were located significantly higher than on the existing equipment, and as a result, the existing cable was not long enough to reach them. The utility company faced the need to run new cable or splice an extension onto the existing cable — both costly and time-consuming processes.

Solution: The Elastimold 600 amp dead-front replacement elbow, available in 15 kV and 25 kV versions, offered the perfect solution to the problem. Longer than a standard elbow connector, this extended elbow provides approximately 30 inches of length to make the connection through use of an “I” adapter with a 600 amp elbow and straight receptacle. This allowed for use of the existing cable without the need for splicing, saving the utility company both time and money.

Conclusion: The Elastimold 600 amp replacement elbow’s connectors are designed to provide fully shielded and fully submersible dead-front cable connections to high-voltage apparatus. The elbow also provides a means to splice and tap 600 amp systems. The connectors are rated for use on systems up to 28 kV class. The Elastimold replacement elbow can be easily connected and disconnected using standard hand tools when the equipment is in a de-energized state. It is ideal for live-front to dead-front switchgear conversions. It meets the latest revision of ANSI/IEEE Standard 386.

Contact your local agent today for more details about this application or the full line of Elastimold underground cable accessories. This includes the 600 amp spiking-T elbow, which provides an extra 7 inches in length compared to a standard T-body elbow and offers the ability to cut at the cable’s contact to avoid any cable spiking. Elastimold repair options are also available for both 15 kV and 25 kV voltage ranges for the 200 amp product line, including a 200 amp repair elbow and a 200 amp replacement elbow.