IMPLO® - Tested to Go the Distance

The test program was designed to simulate a splice passing through a traveler. In the test setup, a traveler was suspended from an overhead crane to replicate a field applcation. Numerous harsh conditions were then tested, pushing the connections to the extreme.

Pull testing of the complete assembly allowed for final performance evaluation. If the conductor were to maintain close to or better than its original rated strength, then the extreme application would prove IMPLO to be capable of passing through the traveler in application.

IMPLO® full tension splice joints are designed to pass through travelers to their final location in the line.

Whenever a line crew or engineer first learns this fact about IMPLO splices, it normally takes them by surprise. A splice designed to pass through the traveler? Numerous test programs and hundreds of successful past and present projects have demonstrated the success of IMPLO technology to do exactly that. On occasion, however, it comes down to proving, once again, the seemingly impossible.

To that end, BURNDY engineering, working closely with the staff at Kinectrics test labs in Toronto, CAN designed a new test program to put IMPLO splices through rigorous field simulation. The aim of the testing was to prove that IMPLO splice connections were strong enough to withstand the stress of side-loading, while causing no damage to the conductor when passing through the stress point of a traveler. In order to cover various field conditions, the setup needed to be flexible, yet allow for the capture of meaningful data.

The results of the testing found IMPLO connections performed as intended. The splices were not damaged by the side-loading, and the conductor retained its integrity. IMPLO technology has proven once again it is capable of going the distance, in the lab and on the job.

Different conductor sizes were incorporated into the test program. Each connector ran through the traveler numerous times before final testing.

An IMPLO splice on 2156 ACSS Bluebird in application.

BURNDY®

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