

REDUCE INSTALLATION TIME

As long as a medium or high-voltage cable maintains same physical dimensions, the electrical stress remains consistent.

Whenever the cable is cut, the end of the cable must be terminated or spliced to another piece of cable. Design of joints and terminations has been around for more than 100 years and different techniques have been used over time. Today, a few main technologies exist:

- Heatshrink technology that consists of pre-expanded sleeves that are shrunk on the prepared cable by applying a heat source;
- Coldshrink technology with elastomeric component pre-expanded on a support and collapsed onsite over the cable core by removing the support; and
- Push-on technology where factory molded elastomeric components are fitted on the cable core by hand or with special tools and the help of a lubricant.

The modern trend of heatshrink technology, which is a robust and reliable

option substantiated by decades of successful service around the world, aims to reduce the number of components that form a jointing or termination kit. This is achieved by using multi-layer sleeves that combine more functions in one tube. For example, a stress relief tube and an insulating tube can be co-extruded in one sleeve by reducing the number of components and, thus, reducing the installation time.

Coldshrink bodies do not require heat sources or flames for installation and are becoming more and more popular as they represent improved working conditions and safety. They are also less sensitive to operator skills, because the shrinking relies on the elastic memory of the components employed.

Similar to the roadmap for heatshrink technology, as well as for coldshrink bodies and push-on solutions,

manufactures are integrating functions used to be carried out by more components in a single body. This enables a range of new possibilities for the user, such as integrating semi-conductive electrodes in a joint body through to the development of all-in-one bodies that include earthing system and outer protection, which minimise installation time. All technologies are available within Elcon Megarad S.p.A., the Italian specialist of power cable accessories that holds more than 30 years experience in the field with its own R&D, engineering departments, laboratories and manufacturing facilities. Due to its experience in electrical design and materials engineering, Elcon Megarad can offer customised proprietary solutions with the latest technology and reliability. Elcon Megarad products can be sourced through DT Jointing Solutions. 



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