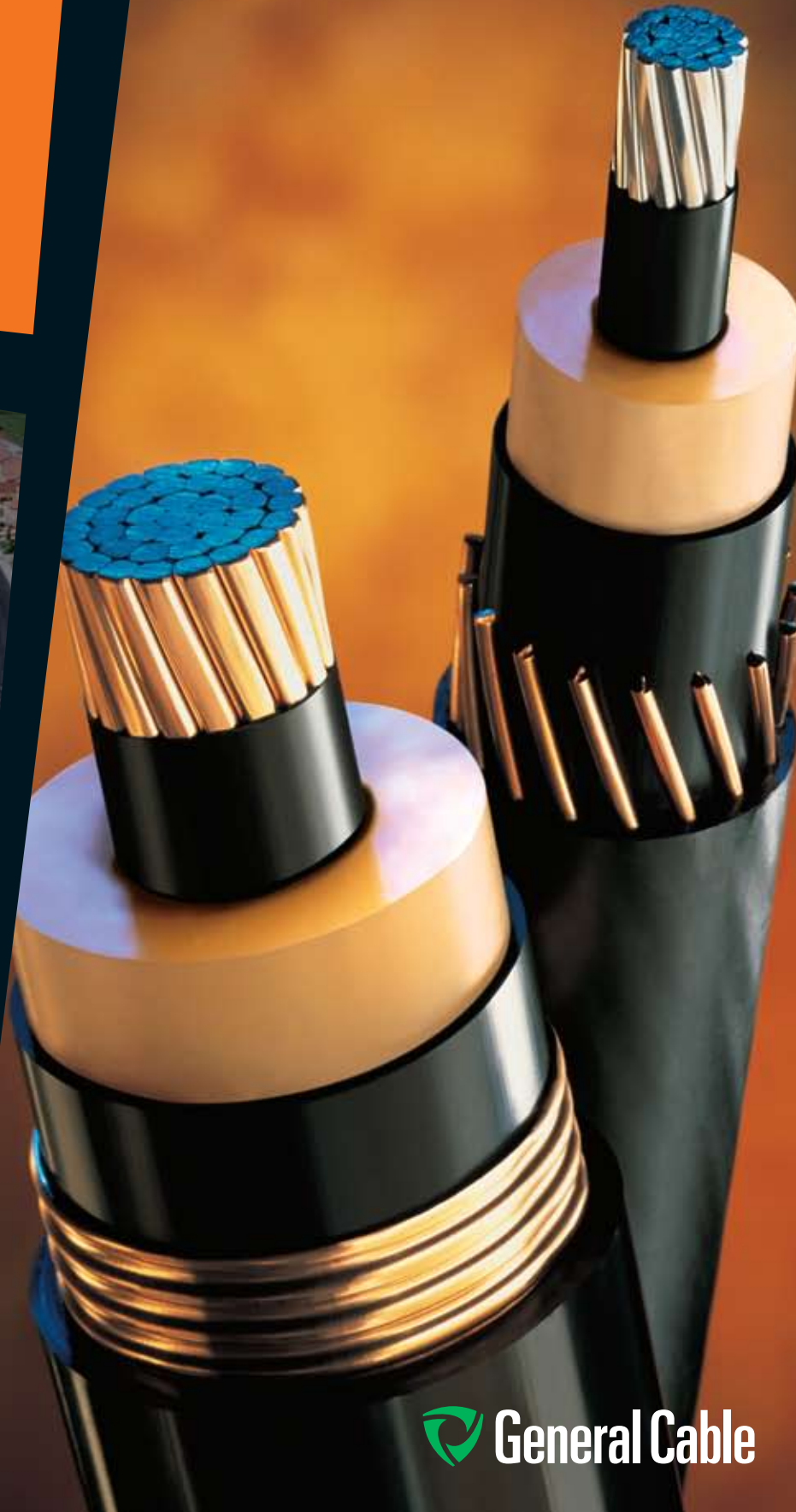




# EmPowr<sup>®</sup> Link

>EmPowr<sup>®</sup> Link TRXLPE From  
The Industry Leader

>General Cable has over 100 years of history designing and manufacturing cable systems. It is from these years of experience that we have developed some of the most reliable long-life, high-performance cables in the industry.



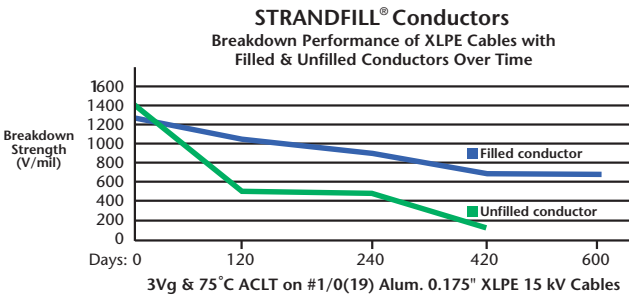


> **General Cable's EmPowr® Link** is the trade name for our Cross-Linked Polyethylene insulated medium-voltage power cable. Tree-Retardant Cross-Linked Polyethylene (TRXLPE) insulation has been, and will continue to be, the insulation of choice for most applications. Utilities typically use TRXLPE insulated cables in underground residential distribution systems because of their excellent dielectric strength, low losses and tough physical characteristics. In addition to these proven benefits, significant material and manufacturing improvements now produce cables superior to those of the past.

As one of the largest producers in the world of high-quality TRXLPE cable, General Cable has been a major contributor to these advancements through the use of:

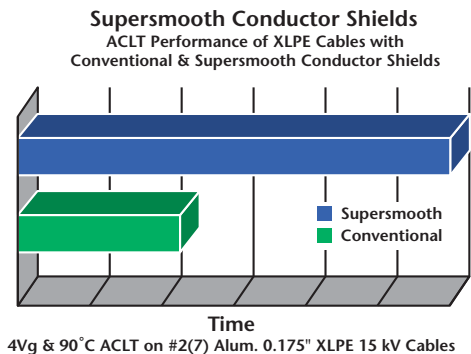
- > Clean Rooms and Clean Material Handling Systems Utilizing Air Transport Systems
- > Optical Pellet Inspection
- > True Triple Extrusion Technology
- > Nitrogen Gas-Curing Process (Dry Cure)
- > Extensive Computerized Process Controls

**STRANDFILL®** - Filling the conductor strands prevents the ingress of moisture and extends cable life. Accelerated Cable Life Test (ACLT) data on XLPE provides a basis of similar comparative relationships for TRXLPE. From the test results shown below, there is a significant increase in retained breakdown strength by keeping the conductor interstices dry.



### Supersmooth Conductor Shield -

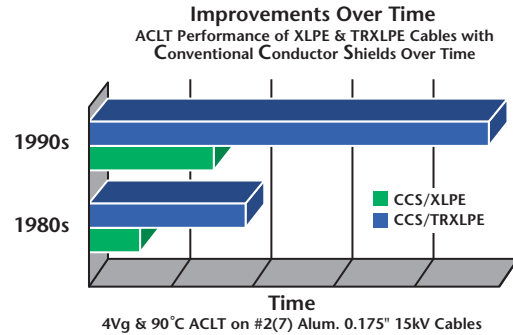
ACLT results have shown that insulations with a supersmooth shield, like General Cable's **UltraPowr®**, last more than two times longer than those with a conventional shield.



During the past three decades, major improvements have been made in cable design and manufacture. These improvements include:

- > Newly formulated and cleaner manufactured compounds
- > Advanced extrusion technology and machinery
- > Improved manufacturing process techniques/systems
- > Expanded and more stringent process and product qualification testing

General Cable continually strives to improve cable life. The result is that today's state-of-the-art Tree-Retardant Cross-Linked Polyethylene cable is significantly better than earlier designs. Testing has shown that TRXLPE designs last more than three times longer than XLPE designs.



**Jacket** - Industry data shows a significant reduction in cable failure rate as a result of using an overall jacket. As reported field data indicates, the desirability of a jacket is obvious.

### Failure Rates of Jacketed vs. Un-Jacketed Cable

	Insulation Type	Total Miles	Reported Failures Per 100 Miles
Un-Jacketed	XLPE	23,970	4.82
Jacketed	XLPE	9,124	0.26
Jacketed	TRXLPE	11,138	0.24

*Information courtesy of IEEE/PES ICC Task Group 5-24*

General Cable is confident that **EmPowr® Link** cables are a long-life design. Test data and field experience indicate that the following design options maximize cable life:

- > STRANDFILL®, BIFILL® or solid conductor
- > Extra-clean, supersmooth UltraPowr® conductor shield
- > TRXLPE insulation
- > Encapsulating LLDPE overall jacket

Because of its excellent dielectric and physical characteristics, General Cable **EmPowr® Link** insulated cable is strongly recommended for primary distribution service applications such as underground residential and rural systems.

- > Recommended for normal operating temperature applications
- > Lower purchase cost & operating expenses
- > Lighter weight = longer cable runs

For cables operating at high temperatures or where increased flexibility is desired, General Cable recommends our **EmPowr® Fill** medium-voltage product line. See our **EmPowr® Fill** brochure for details.

We "**EmPowr®**" you to work with our Engineering and Technology staff to provide a cable design for your specific need – be part of the "**EmPowr®**" generation.



4 Tessenner Drive • Highland Heights, KY 41076  
 800.237.2726 • 859.572.8000 • 859.572.8072 fax  
[www.generalcable.com](http://www.generalcable.com)  
 GENERAL CABLE, BICC BRAND, EMPOWR FILL, EMPOWR LINK, STRANDFILL, BIFILL, and ULTRAPOWR are trademarks of General Cable Technologies Corporation.  
 ©2010. General Cable Technologies Corporation.  
 Highland Heights, KY 41076  
 All rights reserved.  
 Form No. UTY-0007-R0410