



PowrPak®

The Next Generation of MV-UD Cable

From the early 1920s through the late 1990s, Paper Insulated Lead Covered (PILC) cable was the standard cable used for Primary Distribution Network cable. But as load demands increased, environmental concerns grew and urban distribution systems aged, it became necessary to develop a new cable design. PowrPak® is that cable.

- > **Increased Load Capacity**
- > **More Environmentally Friendly**
- > **Easier to Retrofit**
- > ***Now Available with Lead-Free Filled EAM Insulation***



Over 119 Million Feet Installed Since 1989

Easier Splicing, Terminating and Installation

Paper Insulated Lead Covered (PILC) cable with three conductors within a common lead sheath is stiff, heavy and difficult to handle. Plus, the special skills required for terminating and splicing are limited and labor-intensive. PowrPak® is easy to work with because it is three single conductors, more flexible and lighter than lead-encased oil-impregnated PILC, and uses commercially available splicing and terminating components. Retrofitting into existing duct work is easier and less labor-intensive, which results in reduced handling, installation and overall costs.

Pack More Power Into a Smaller Cable

PowrPak®'s unique design and special manufacturing techniques allow for a cable which has a diameter reduction of more than 15 percent relative to standard AEIC solid dielectric cable yet handles greater loads than the same size PILC. This is a major advantage for retrofitting into aging urban underground distribution systems. The smaller PowrPak® cable can be installed into existing ductwork...a feat not always possible with other types of PILC replacement cable.

Long-Term Reliability

PowrPak® is manufactured using state-of-the-art super-clean components, mixed with techniques that produce a homogeneous material that is the cleanest filled rubber insulation compound in the power cable industry. General Cable's manufacturing process technology allows for tight control of all dimensions. Our triple extrusion techniques control dimensional tolerances. Material handling systems for all PowrPak® material are second to none, including the use of Class 1000 and 10000 clean rooms at compounding and manufacturing plants. This assures a high degree of purity, consistency and long-term cable reliability.

PowrPak® Features

- > High ampacity
- > Reduced diameter
- > High dielectric strength
- > Low dielectric loss
- > Easy installation, splice and termination
- > Lower cost than PILC
- > More environmentally friendly than PILC
- > Available with TRXLPE insulation
- > **Now Available with Lead-Free Filled EAM Insulation**

500 kcmil 15K Cable in 3" Duct



Designed to Your Requirements

No two applications are identical, and neither are any two installations. General Cable engineers will provide a PowrPak® cable design to fit your conductor size, voltage, shield, duct size and duct clearance. Formula for calculating duct clearance:

$$\text{Clearance} = \frac{D}{2} - 1.366(d) + \frac{D-d}{2} \sqrt{1 - \left(\frac{d}{D-d}\right)^2}$$

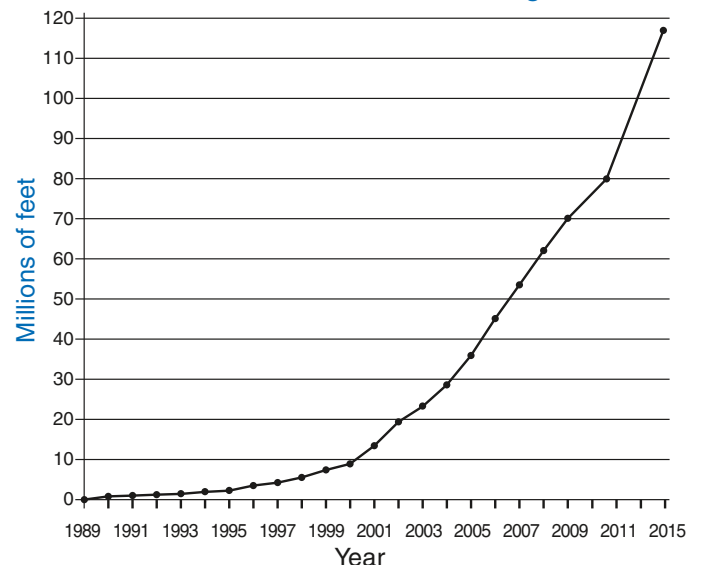
Where: D = Inside diameter of duct (inches)
d = Max. diameter of one conductor (inches)



It's Time for PowrPak®

General Cable has proven itself as a pioneer and innovator in the cable industry. PowrPak® is one example of how we think ahead and anticipate the changing needs of the electric utility industry. Since 1989, utility companies have installed millions of feet of PowrPak® cable provided by General Cable.

Cumulative PowrPak® Usage



4 Tesseneer Drive • Highland Heights, KY 41076
800.237.2726 • 859.572.8000 • 859.572.8072 fax
www.generalcable.com

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