



AIR BAG™

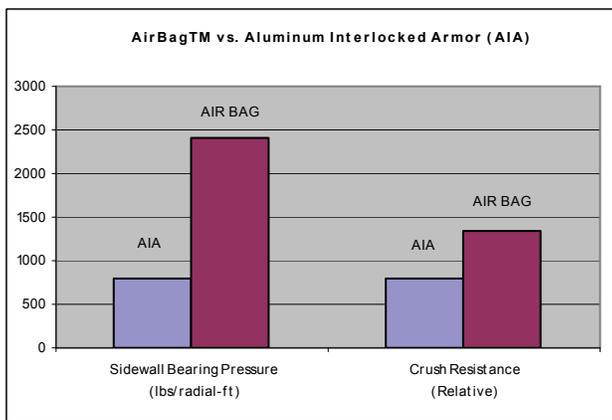
CABLE SYSTEM

Performance

Innovation

Reliability

AIR BAG TECHNOLOGY CRUSHES THE COMPETITION



HISTORY IS NOT REPEATING ITSELF

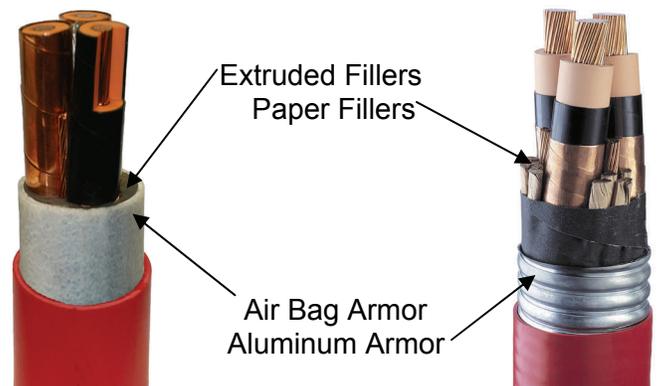
Historically, metallic armored cables have been around since the 1930's. Similar to the heavy, inconvenient armor that knights used to wear, this metallic armor is dated and in need of improvement. And like the KEVLAR™ vests of today's law enforcement, Prysmian has armored our cables with the latest in technology, a futuristic, tough and flexible armor.

The Air Bag cable gains its advantages from its technologically advanced polymeric armor. Prysmian's Air Bag design provides 66% more Crush Resistance and a phenomenal 300% increase in Sidewall Bearing Pressure limits.

POWER CABLES ENERGIZED WITH AIR BAG™ TECHNOLOGY

While relatively new to the market in North America, this cable design has over 10 years and 30-million feet of installations to its credit across the globe.

The Air Bag cable is designed to replace Aluminum Interlocked Armor (AIA) cables by providing a cable that is more mechanically resistant to installation rigors and that is more user-friendly to the contractors installing this type of cable. From a design standpoint the two cables differ ONLY in the fillers and the armor, all other components of the cable are the same.



By replacing the paper-type fillers and the antiquated metallic armor with extruded fillers and the futuristic polymeric armor, Prysmian is able to bring the cable of tomorrow to today's installations. These slight modifications in design parameters and materials yields great dividends when it comes to withstanding the mechanical forces experienced during installation. Further, reliability is improved, installation time decreased, associated costs are reduced and overall safety is improved.

Other advantages of the Air Bag cable design lie in the ease of cable preparation. The most common questions with the Air Bag cable design are typically “how do I install it?” or “what about splicing and terminating?”.

By utilizing a performance based filler and polymeric armor, cable preparation has become easier and system reliability is increased. The preparation of the cable core is the same for both types, while the simplified process of armor removal for the Air Bag cable saves approximately 2 hours per termination.

With AIA cables, special saws are often used for removing the aluminum interlocked armor. This task is further complicated by interlocked armored cables that are out of round, which is not an issue with Air Bag cables. With Prysmian’s Air Bag technology, there is no cumbersome metal armor to remove. The polymeric armor does not require a saw for removal. This significantly reduces opportunity for cable damage or personal injury. Prysmian’s Air Bag layer and polymeric fillers are easily removed via high strength ripcords. The Radial Cut (see below photo) can be made using a high strength cord included in Prysmian’s accessory kits. Unlike the removal of the interlocking armor, there is NO risk of damaging the individual cables. The longitudinal “cut” is facilitated with an embedded high-strength rip cord also shown below.



Radial cut made with string into Air Bag and extruded fillers.



Removal of Air Bag and extruded fillers after longitudinal cut



Prysmian provides a complete line of accessories, including splices, terminations and glands. The products can be packaged together on a project by project basis to provide an easy way to manage each cable installation.

The mechanical benefits of this cable are realized in a myriad of installation environments from Direct Buried, to In-Duct or In-Conduit, to Cable Trays. The improved impact resistance combined with industry leading maximum sidewall bearing pressure limitations result in a more carefree installation with the added benefits of fewer splices, less time, and increased reliability. While the splice itself does not reduce the integrity of the circuit, the problem lies with the inability to test the workmanship.



Poor cutbacks and insulation nicks, such as shown here, can result in a corona discharge and premature cable failure. So, why take the chance with splices when, in many cases the

increased mechanical strength afforded by the Air Bag cable can lengthen your pull and eliminate splices.

Pull farther, eliminate costly workmanship errors, reduce installation time, save money and increase reliability. Install Prysmian’s latest innovation, Air Bag cable and energize your circuits with cutting edge technology.



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