



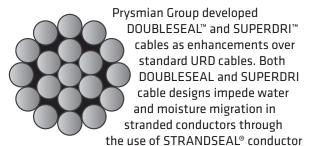


DOUBLESEAL™ and SUPERDRI™

URD Cables Meet Moisture Control

Cable reliability is of extreme importance in today's medium voltage underground marketplace. Prysmian Group strives to meet and exceed the industry's reliability requirements through extensive research and development.

Since water and moisture have been shown to be major causes of decreased cable life, Prysmian Group's approach to cable design continues to be focused on the control and elimination of water migrating into the cable.



filling compound, which exhibits >15-psi water pressure withstand when subjected to ICEA T-31-610 Longitudinal Water Penetration Resistance tests.

DOUBLESEAL Cable



DOUBLESEAL cables further improve standard URD cables by applying additional water-blocking agents over the insulation shield and around the concentric neutral wires. The DOUBLESEAL cable design provides 15-psi water pressure withstand across the full cable cross section, which far exceeds ICEA T-34-664 requirements of 5-psi.

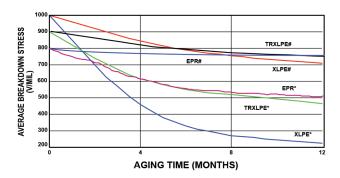
SUPERDRI Cable



SUPERDRI cables further improve URD cable designs with a sleeved jacket construction by incorporating water-blocking agents over the insulation shield and around the concentric neutral wires in powder form as well as water-swellable tape. The SUPERDRI cable design withstands 5-psi water pressure through the balance of a cable cross-section, increases cable flexibility, and includes rip-cords for easy jacket removal.

Performance

Industry standard Accelerated Water Treeing Test (AWTT) results have been compared against a modified AWTT, where the cable designs incorporated water-blocking agents. The top three curves, which incorporated water-blocking agents and jackets (denoted by #), all performed better than the cables without water-blocking agents or jackets (denoted by *).





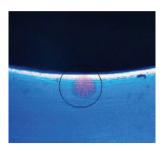


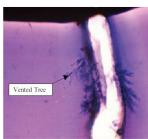
Installations

DOUBLESEAL and SUPERDRI cables can be supplied over a 5 to 46kV operating range which are suitable for installations in conduit, direct buried, and isolated in free air. Both cables are designed to operate in wet or dry locations and have sunlight resistant LLDPE jackets.

Water-Blocking

Underground cables will operate in wet conditions; however, water can degrade the insulation, through the formation of water trees, and lead to a shortened cable life.





In order to inhibit the formation of water trees, waterblocking agents are necessary. Unfortunately, all waterblocking agents are not created equally. It is important to keep in mind that Prysmian Group's STRANDSEAL conductor filling compound exhibits the following capabilities:

- Highly adherent to conductor wires
- Excellent low temperature characteristics
- High viscosity at emergency temperatures
- Exceptional thermal aging properties
- Exceeds industry standards (5-psi) by 3X
- Compatible with conductor metals, conductor shield materials, and conductor connectors

The combination of STRANDSEAL and water-swellable agents applied around the concentric neutral wires provides a cable capable of withstanding 5-psi water pressure in the case of SUPERDRI, and 15-psi in the case of DOUBLESEAL.

Key Design Features

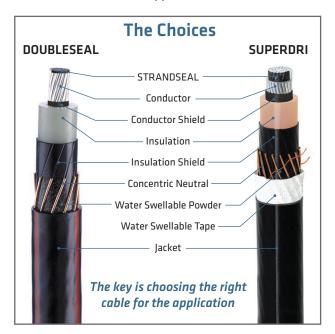
- Aluminum or Copper Conductor
- Prysmian Strandseal Filling Compound
- EPR or TRXLPE Insulation
- Water-Swellable Agents
- Linear Low Density Polyethylene Jacket

Prysmian's DOUBLESEAL and SUPERDRI cables are manufactured to the latest versions of the following industry standards:

- AEIC CS8
- ICEA S-94-649
- ICEA T-31-610
- ICEA T-34-664

Optional manufacturing capabilities are further detailed below:

- · Black LLDPE jacket with no stripes
- Multiplex cables
- Compact stranded conductors
- Super smooth conductor shield (TRXLPE Only)
- Tinned round and flat strap neutrals
- UL (MV90) Rating if required
- REA/RUS U-1 where applicable



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