

Powering Tomorrow: Advanced HVDC Cable Solutions for the Energy Transition

The energy industry is playing a pivotal role in our society's decarbonization journey. With increased focus on generating power from renewable energy sources and upgrades to existing electrical grids, the demand for efficient, high-capacity, and resilient power transmission is greater than ever. As the world moves towards cleaner energy and smarter infrastructure, the need to move electricity over long distances safely, efficiently, and reliably is on the rise. **High Voltage Direct Current (HVDC)** is the efficient and preferred method to transport power over larger distances.



Solutions for next-generation HVDC cable systems

Dow's offering for HVDC insulation system features high performance ENDURANCE™ Compounds for Cable Systems suitable for all voltage levels.

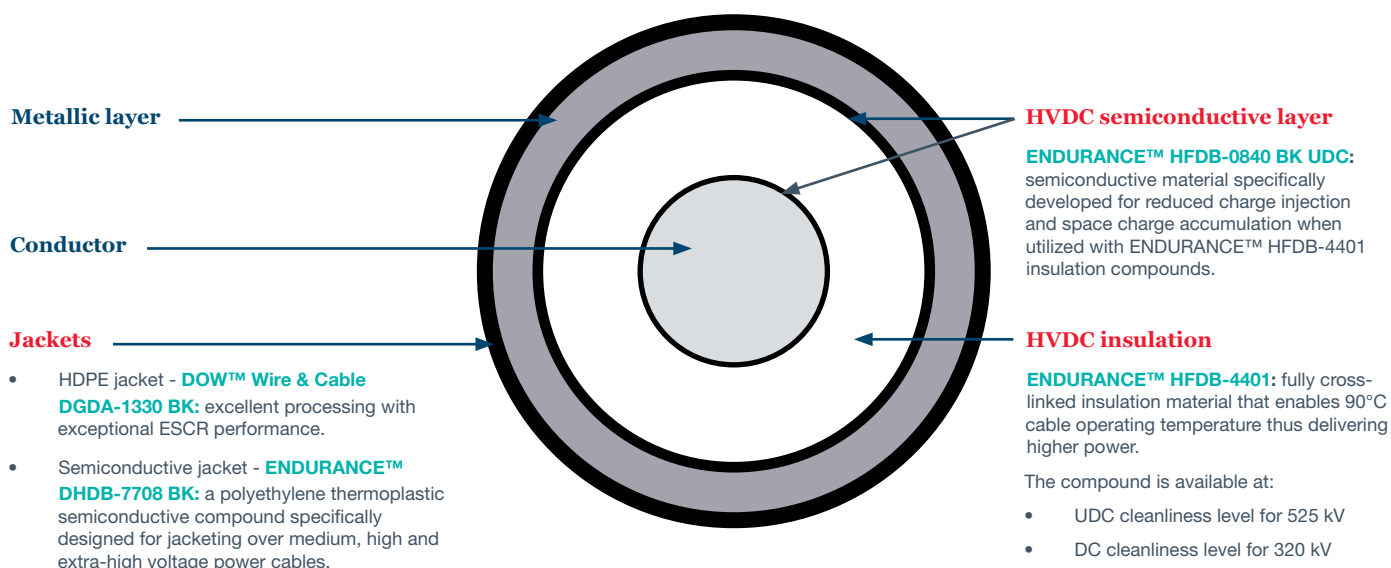


Figure 1: High voltage direct current cable cross-section schematic view.



Key benefits



Fully qualified for HVDC applications

- Qualified to address or exceed the most stringent industry standards.
- Suitable for both voltage source converter (VSC) and line commutated converter (LCC) technologies.



Engineered for 90°C operating temperature

- Maximized power.
- Greater operating margins.
- Simplified system design.



Superior electrical and mechanical properties

- Low DC conductivity and high breakdown strength help ensure robust electrical performance, even under polarity reversal.
- Exceptional thermo-mechanical stability, fully crosslinked system* allowing easy processability.

*meeting IEC 62067 hot set requirements

Get in touch

At Dow, we are strongly committed to helping accelerate the global sustainable energy transition and transform the future of our industry for a better and more sustainable tomorrow. With almost 40 years of experience in continuously innovating and evolving the ENDURANCE™ Compounds for Cable Systems we can help offer underground power distribution and transmission cables that address or exceed global reliability and durability standards. Get in touch with one of our representatives if you are interested in working with us to push the boundaries of cable manufacturing processes.

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