

## Supply of load capacitors to JDR Cable Systems

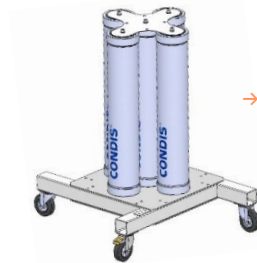
### CUSTOMER'S CHALLENGES

Our customer needed a certified supplier of high-voltage capacitors to deliver tailored solutions. To validate high-voltage test systems, we developed capacitors that simulate HV cable loads. CONDIS designed two systems—one for factory labs and another for offshore platforms—ensuring precise validation, no partial discharges, and reliable operation. These systems are key to testing wind farm array cables with efficiency and reliability.

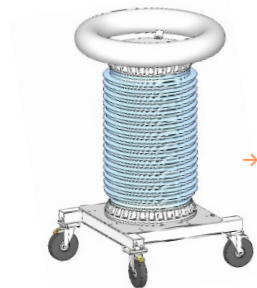
The requirement was for a HV capacitor with 110nF and a rated voltage of 110kV, capable of operating correctly in the 20Hz to 300Hz frequency range.

The indoor version cleverly combines five small capacitors, making it a more economical solution. The outdoor version, on the other hand, is integrated in a large composite insulator, due to the need to extend the creepage distance in the harsh environment of offshore platforms.

A carrier has been tailored to each of the two solutions so that it can be easily maneuvered, whether on the smooth flogged floor of a factory laboratory or on an offshore platform.



→ Indoor design



→ Outdoor design

### Why CONDIS ?

Our extensive experience in the manufacture of high voltage capacitors, combined with our strong team of design engineers and our flexibility in providing tailor-made solutions, were the main factors our customer was looking for.

With over 100 years of experience in capacitor construction, we have established ourselves as world leaders in this field. Our commitment to high-quality standards and continuous support ensures the reliability of our products and provides comprehensive assistance for any inquiries



## Load Capacitors

LOAD CAPACITORS CAN BE USED TO SIMULATE THE BEHAVIOR OF CAPACITIVE IMPEDANCES SUCH AS CABLES. THEY HELP TO VALIDATE TEST SYSTEM PERFORMANCE IN A LABORATORY BEFORE MOVING THE TEST SYSTEM TO THE FIELD.

Load Capacitors can be built in single, or several units connected either in series or in parallel to achieve high capacitances values under high-voltage values requirements.

CONDIS offers flexibility to built tailor-made solutions to our customers.



### KEY ADVANTAGE

Based on a highly flexible technology experience, our experts design load capacitors to meet specific mechanical and electrical requirements.

- ✓ Long maintenance-free lifetime
- ✓ Swiss Made
- ✓ Build your tailor-made high voltage capacitor solution

### PRODUCT FEATURES

*These are sample values. Values out of these ranges are available upon request.*

Capacitance	built up to 1000 nF
Temperature range	built from -10 °C to +50°C
Nominal voltage $U_n$	built from 30 kV up to 1200 kV
Nominal frequency $f_n$	built from DC up to 500 Hz
Carrier system can be included if required	
Adapted corona rings can be included if required	
Outdoor and indoor available solutions	